



MAHATMA GANDHI UNIVERSITY

Vol. I

SELF STUDY REPORT

Submitted to

National Assessment and Accreditation Council
for Re-accreditation

Mahatma Gandhi University
Self –Study Report for NAAC Re-accreditation, 2016

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Preface

Mahatma Gandhi University seeks to make advances in the field of higher education by catering to “the scholastic and developmental needs of the individual, through continuous creation of critical knowledge base for the society's sustained and inclusive growth”. Towards fulfilling this goal, Mahatma Gandhi University has made immense strides in the fields of inter disciplinary learning and research.

The University was previously accredited by NAAC in September 2003 with ‘B+’ and further in July 2011, with ‘B’ Grade (2.90). The University is now prepared for its third cycle of accreditation by NAAC. We have made concerted efforts to gear up in the areas of teaching, research and extension, the trinity of responsibilities of higher education. As we submit this self-study report, Mahatma Gandhi University has been selected as the Best University in the state by the Honourable Chancellor for the award of Excellence for the year 2016.

Over the years, successful implementation of the various programmes has ensured equity and accessibility to higher education in the University. Introduction of new technologies over the last few years has improved the teaching, learning and evaluation processes which have been reflected in the student progression. Recognition of the research activities of the University by Department of Science and Technology, through support given twice through the PURSE programme, several mega projects by nano- mission to set up a centre for excellence in Nanoscience and Nanotechnology and the Sophisticated Analytical Instrumentation Facility, the Boot to University Interdisciplinary Science Education and Research (BUILDER) by the Department of Biotechnology, the prestigious ‘Obama-Singh 21st Century Knowledge Initiative under the INDO-US collaborative programme’ by UGC in 2012, have been a few among the achievements of the University during the present assesement period. The University has also been able to carryout extensive extension activities, besides establishing a large number of collaborations.

It is with immense pleasure that I submit the Self Study Repot (SSR) for the third cycle of assesement to the National Assesement and Accreditation Council, Bengaluru.

Sd/-

Dr. Babu Sebastian
Vice-Chancellor

Executive Summary

Mahatma Gandhi University is a major affiliating university in the state of Kerala with unique characteristics. Located in the southern part of the state, the University is spread across the main campus in the Priyadarsini Hills at Athirampuzha, 13 kilometres off Kottayam and seven satellite campuses. Established on 2 October 1983, Mahatma Gandhi University has jurisdiction over the districts of Kottayam, Ernakulam, Idukki and parts of Pathanamthitta and Alappuzha.

Mahatma Gandhi University offers a range of programmes at the undergraduate, postgraduate, MPhil, doctoral and post-doctoral levels through its 15 Schools, two departments, one International and Interuniversity Centre, seven Inter University Centres, nine Inter School Centres, one Business Incubation and Innovation Centre and seven constituent colleges/institutions. It is also an affiliating university with 191 aided affiliated colleges (of which 10 are autonomous), 158 unaided affiliated colleges and 86 recognized research Centres and institutes. While the Schools/Departments/Centres are inter-disciplinary in nature, most of the affiliated colleges and autonomous colleges impart education in the conventional disciplines of science, social science and humanities as well as in the professional disciplines of Engineering, Technology, Medical Sciences, Hotel Management, Fine Arts, Pedagogy and Legal Studies.

Over the last three decades, Mahatma Gandhi University has made remarkable achievements in the fields of inter-disciplinary teaching and research in the areas of pure and applied sciences, social sciences and humanities. The programmes conducted under the Credit and Semester System (CSS) in the statutory Schools/Departments/Centres in an interdisciplinary mode, are marked by their innovative curricula and their learner-oriented approaches. The CSS is essentially learner-friendly that advances interactive acquisition of knowledge in a multi-disciplinary matrix. The students are oriented to acquire knowledge with the latest developments in their fields of study. The University has consistently sustained healthy practices of designing and updating its curricula and syllabi through discussions and deliberations carried out in a democratic way among the members of the academic community. The faculty of the University comprises outstanding scholars, many of whom have made original contributions in their respective fields of specialization. The faculty and research scholars of several schools have gained widespread recognition for the commendable quality of their research publications. The University has also published journals of global standards with experts of international repute serving on the boards of these publications.

Mahatma Gandhi University currently offers research programmes in over forty disciplines through its own Schools as well as through its approved research Centres. The University has close collaboration for academic, research and extension programmes with a number of national agencies and

institutions including the UGC, DST, DBT, ISRO, CSIR, DAAD, KSCSTE ICMR, BRNS, MeitY, MoES, ICCR, ICHR, ICSSR, IED, IIFT, Institute of Chinese Studies, Jinan National University, China, and the Sahitya Academy. The University is also involved in active collaboration with research institutions of international reputation such as the Max Planck Institute, Germany, Institute of Polymer research, Dresden, Germany, University of South Brittany, France, University of Paris 12, France, University of Strasbourg, France, University of Orleans, France, Dakin University, Australia, University of Nantes, France, California Institute of Technology, USA, University of Toronto, Canada, University of Trent, Canada, Catholic University, Belgium, Heidelberg University, Germany, and the Institute of Political Studies, Rennes, France, POSTECH, South Korea, Brown, Duke and Plymouth State University of USA, Technical University of Denmark, Ben-Gurion University of Israel. Some of the members of the faculty have proved to be frontrunners in the development of indigenous technologies and are holders of as many as thirty two patents, including four US patents. The University has been able to make these achievements mainly due to the healthy environment of academic interaction that exists on the campus. This is also due to the student support and other services available on the campus like the web-enabled University Library with its large collection of books, journals e-journals and the online Theses Digital Library provides open access to its enviable collection of digitized PhD dissertations. In pursuit of the University's quest for excellence, the faculty of the University have made significant contributions in their fields of specialization. In its quest for excellence, the University focuses on the following:

Access and Expansion

Being a state-run University, admissions to the various programmes in the University departments are effected in a transparent and rule-governed manner. Merit certainly is a criterion for admission, but there is also the reservation of seats for applicants belonging to the socially and economically disadvantaged sections of the society. The University is aware of the need to increase the Gross Enrolment Ratio (GER), especially among disadvantaged groups, and this has prompted us to seek funding for starting a few more departments and programmes as well as for strengthening the infrastructural facilities in the institution.

Mahatma Gandhi University has the unique distinction among all the Universities in Kerala in having the largest number of colleges affiliated to it offering a multitude of courses that stand out by the merit of their contents catering to not only conventional streams of study but also to new-generation job-oriented disciplines that have been designed taking into account the development of technology.

With a view to streamlining the admission procedure in affiliated colleges, the centralised admission procedure (CAP) has been conceptualized by the Mahatma Gandhi University, implemented from the academic year 2010 and is successfully running the process since then. As far as the student community is concerned, the biggest advantage of CAP is that an applicant

needs to submit only a single application for seeking admission to a particular course in any affiliated college offering the same, thereby minimizing the cost and time in this respect when compared to the college-wise admission. Moreover it can be ensured that the seats earmarked for SC/ST/Physically Challenged candidates are exclusively allotted to them. Unfilled seats in these categories, if any, can also be allotted to other eligible categories as per the existing rules, thereby ensuring social justice.

Considering the need of the hour, the University offers interdisciplinary as well as integrated programmes. University thus established Inter University Centres as well as Inter School Centres for promoting the interdisciplinary research and for supporting the research and academic programmes of the statutory Departments/Schools.

Equity and Inclusion

The academic programmes of the University are specifically aimed at bringing in greater sensitivity in the academic world to questions of social exclusion and marginalization and some are specifically meant to correct the imbalance that exists in society in the matter of distributing social capital. Overcoming barriers to the education of the marginalized sections is the main objective of most of the programmes. The Common Admission Test for admission to various PG programmes conducted in the University Departments/Schools ensures that the reservation policies are strictly followed. The University provides reservation for the Children with Special Needs for admission to various programmes under the University.

Quality and Excellence

Earnest efforts have been underway to strengthen and consolidate University's achievements in the areas of inter-disciplinary teaching and research following the initiatives it has taken in the recent past in ensuring curriculum revision, syllabus updating, examination reforms and faculty development. The programmes offered in the University Schools and Departments are under the CSS scheme followed in universities across the country. Academic autonomy is the uniqueness of the Schools/Departments/Centres that promote inter-disciplinary research. Inter University Centres are also responsible for promoting participatory and inter-disciplinary research. As part of the drive for improving quality and excellence, the University has improved on the following

Curricular Aspects

Mahatma Gandhi University envisages a long-term, sustainable academic environment with a view to excelling in the field of higher education by catering to the scholastic and developmental needs of its stakeholders, through continuous creation of critical knowledge base for the society's sustained and inclusive growth. The focus of the University is on the all-round development of the individual, who is expected to become skilled, cultured, socially conscious and socially useful through education. This is made possible

through the wide range of academic programmes that are available (UG, PG, Integrated Masters, MPhil, PhD, Integrated PhD, Certificate courses, Diploma, PG Diploma) for the students to opt for. In addition, the University is also gearing up to introduce new Courses through the MOOC programmes. The University follows the guidelines put forward by the relevant regulatory bodies like University Grants Commission (UGC), All India Council for Technical Education (AICTE), National Council for Teacher Education (NCTE), Pharmacy Council of India (PCI), Rehabilitation Council of India (RCI), Indian Nursing Council (INC), Bar Council of India (BCI) and Kerala State Higher Education Council while designing the curriculum. In addition, feedback from various stakeholders is also taken which helps in developing the curriculum. Introducing Open course programmes in the University Schools/Departments/Centres have further increased the academic flexibility of post graduate studies.

Teaching, Learning and Evaluation

The Credit and Semester System (CSS) of the University aims at flexibility in curriculum development, objectivity and critical approach in examination patterns, use of continuous evaluation for assessment in all educational programmes in the university campus. The CSS is also meant to provide meaningful common criteria as per the national pattern to transfer credits when students move from one institution to another within or outside the country.

CSS seeks to ensure a uniform pattern of course design, course teaching, evaluation system, academic calendar and examination time-table for all MA., M Sc., MEd., LLM, MTM, MBA., MPed, M Tech, integrated BSc-MSc, M Phil., integrated M Sc-Ph.D and course-work of the conventional PhD programmes. CSS also ensures that all its autonomous Schools/Centre/Institutes enjoy academic flexibility in the conduct of diverse academic programmes.

The Faculty Council in each School/Department/Centre plays an important role in maintaining the quality and standard of teaching imparted. Appropriate remedial and enrichment programmes are designed based on the evaluation of academic outputs and feedback from the students.

Schools/Centres regularly conduct national and international conferences and workshops in which leading experts are invited to deliver lectures. They also interact with the faculty members and students leading to active collaboration and networking. Mahatma Gandhi University through the Erudite programmes (of the State Government) could invite six Nobel Laureates and 56 Scholars in different areas of expertise as Scholars-in-Residence. Various learner-friendly technologies have been introduced to improve and innovate the teaching-learning process.

Research, Consultancy and Extension

Research, consultancy and extension have been the strongest in creating a new knowledge base. During the assessment period, the University has published more than 1000 papers in international and national Journals. 80 major

research projects and 19 minor research projects have been completed, three industry linked projects were also completed. At present there are 28 ongoing research projects being carried out in the University. The University also conducted 159 workshops, 117 Conferences (national and international). In addition to the Schools/Department/Centres, the University has also 40 affiliated colleges and 46 affiliated research institutes as registered research Centres.

Seven University Schools/Departments have been recognized by various funding agencies for the excellence in research output. Based on the h-index value, which is a measure of the impact and productivity of a group of researchers at a Department or University, the Department of Science and Technology identified 30 Universities with h-index ranging from 42-26 for R&D support during 2010- 2011. Mahatma Gandhi University, Kottayam with an h-index of 35, was ranked 8th among the 30 Universities and ranked first among the Universities in the State of Kerala. University's present h-index is 66 which indicates a remarkable progress in research. Mahatma Gandhi University also won the Chancellor's Award for the best university in the state during 2016 based on its performance in a variety of fields.

Further, a second study was conducted and Second Phase of the PURSE programme based on Research output of the University was done by DST. Based on the h-index value of the publication (66 as per WEB of Science data), the second Phase of PURSE has been sanctioned to 14 Universities in India of which Mahatma Gandhi University is also a recipient. Mahatma Gandhi University was one among the three institutions and the only University in India for having been awarded the 'Obama-Singh 21st Century Knowledge Initiative' an INDO-US collaborative programme by UGC for the period 2012-15. The Research output of Mahatma Gandhi University was again recognised by DST and was sanctioned funds for establishing the SOPHISTICATED ANALYTICAL INSTRUMENTATION FACILITY (SAIF) 2015-2018. Mahatma Gandhi University is the only university in Kerala to be awarded the DBT BUILDER Programme for the period 2012-17. Mahatma Gandhi University was part of India's expedition in Polar Regions.

Schools/departments of the University have had wide ranging extension programmes to share its expertise and resources with other institutions and the society at large. A large number of collaborations have also been established with institutes in India and abroad as well as with industries which further helped to improve the research output of the University.

Infrastructure and Learning Resources

The University has a Planning Board headed by the Vice-Chancellor and it consists of nominees of the Chancellor, UGC and State Planning Board followed by Registrar, Finance Officer and members nominated by various teaching departments. University gets financial assistance from the central and the state governments. The Planning and Development wing of the University deals with the day-to-day affairs related to submission of proposals related to infrastructure, asset management, and space management. It includes

mobilization and administration of plan funds from the State, UGC, sponsoring bodies like Department of Science and Technology, Department of Bio-technology, Indian Council of Medical Research, Indian Council of Social Science Research, Council of Scientific and Industrial Research, Kerala State Council for Science, Technology and Environment (KCSTE) etc.

The University has a total built up area of 1,64,844sq.m (which includes the main campus and other campuses). The University has five hostels (two for boys and three for girls) which provide accommodation to almost 425 students. The University faculties have been able to improve the research infrastructure facility (major equipments) by bringing in an amount of 27.85crores through projects and State plan funds. In addition, the Department of Science and Technology through FIST, PURSE & SAIF; KSCSTE through the SARD and DBT through its BUILDER greatly improved the research infrastructure facilities.

Free Wi-Fi is available in the campus and hostels. The University has started installing High Speed Wireless Networking in the campus. This has facilitated the initiation of the e-governance programme being implemented in the University.

Mahatma Gandhi University Library and Information System consists of University Library, libraries of the Schools and four study Centres placed in different affiliated colleges under the jurisdiction of the University. The University Library was established in 1989. Situated in the main campus, it occupies purpose - built accommodation, and provides a variety of facilities and has a user-friendly environment. The library has a collection of 59,000 books, 253 journals, 2135 PhD theses and has access to 15000+ e-journals under E-ShodhSindhu. The activities of the Library are comprehensively automated using open source Library management software KOHA.

Edmodo, open-source software is implemented in some Schools of the University to facilitate transparency and ease in evaluation in a student/teacher-friendly manner without compromising the reliability and validity studies.

Student Support and Progression

According to the guidelines of CSS, Faculty Advisors are appointed for the welfare of the students of each PG Programme. Students are helped to choose appropriate electives and open courses. Each student is allotted a guide to prepare their dissertation as per the curriculum.

The Schools/Centres ensure smooth induction of fresh batches at the beginning of the academic session through an orientation programme. This orientation programme includes a welcome to the newcomers by the senior batches in which they are also introduced to the programmes, courses and the curriculum. The new comers are guided by the teaching and non-teaching staff to familiarize with the formalities after admission and help them adapt to the new environment. The senior students also render all possible support

whenever required. The students are provided with necessary guidance and counselling by the counsellors, teachers and wardens. The students are under the guidance of a faculty member who takes care of all aspects of mentoring including counselling, emotional, intellectual, moral and personal support. The University helps and encourages the students to avail various scholarships and grants like E-Grants, ASPIRE, INSPIRE, KCSTE, KVPY etc. During the last five years students belonging to different categories including PhD scholars have received 65% of their financial assistance from the Central Government and 35% from the state government. The University has several schemes for differently abled children (in School of Behavioural Sciences). The University has various schemes for skill development (spoken English, computer literacy, etc.), Additional Skill Acquisition Program (ASAP), Health Centre, Health Insurance etc. The 'Obama-Singh Knowledge Initiative' established in the School of Environmental Sciences has helped in developing student and faculty exchange programmes. The International and Inter-University Centre for Nanoscience and Nanotechnology has also had student exchange programmes with collaborating universities. The School of International Relations and Politics has collaborative academic ventures with institutions in France and China.

The University provides on an average 175 fellowship to Research Scholars who do not have any other fellowships but have qualified the University entrance examination for PhD registration.

The Department of Student Services of Mahatma Gandhi University organizes workshops/orientation programmes for teachers and students on various topics such as women counseling, campaign against ragging, career guidance, student magazine editing, ill effects of alcoholism, inter collegiate/university youth programmes, inter university youth festivals with cash awards to winners of cultural activities etc. Mahatma Gandhi University Union organizes Youth festival annually to promote art and cultural talents among the students. It also aims at encouraging camaraderie and fellowship among young artists by giving them an opportunity to display their talents on a common platform. Mahatma Gandhi University National Service Scheme has 205 units and more than 20,000 volunteers from the Arts and Science colleges of Kottayam, Ernakulam, Pathanamthitta, Idukki and Alappuzha Districts and from Mahatma Gandhi University Campus. Mahatma Gandhi University was awarded Indira Gandhi NSS National award for the Best University, 2013-14. During the year 2014-15 Mahatma Gandhi University Volunteers Manoj George and Aishwarya Lakshmi bagged the Indira Gandhi National Service Scheme Award for the Best Volunteers. All the three awards were presented by the Hon'ble President of India at a formal function held at the Durbar Hall of the Rashtrapathi Bhavan, New Delhi. During the year 2015-16 M.G University secured the NSS State Award.

Governance Leadership and Management

There is a collective leadership in the University and regular meetings and interactions with the stakeholders are held. The Vice - Chancellor interacts with various administrative departments through the Registrar. The Syndicate

is the decision making body, the Senate is the advisory body and Standing Committee of the syndicate under the chairmanship of Vice-Chancellor meets regularly with a prior agenda. Minutes are prepared, follow up measures are carried out and a continuous process of brainstorming and discussions on the issues at hand are taken up. Academic Council is responsible for the maintenance of standards of curricula, research, education and examination. The Deans, Convener of Credit and Semester System (CSS), Chairpersons-Boards of Studies (BoS), Director IQAC, University Research Committee and other designated officials are responsible for introducing new programmes, restructuring the existing ones and innovate the methods of teaching in the emerging areas of interest. The College Development Council (CDC) caters to the developmental needs of the affiliated institutions. The Director for Research ensures the quality of the research programmes by conducting entrance test, course work and periodic doctoral committee meetings. The Faculty Council meetings at various Schools/Departments/Centres ensure participatory decision-making. National/ International experts in the field concerned serve the editorial boards of journals. Involvement in research activities is treated as one of the outlets for exposing the professional talents of the teaching faculty. Acknowledging this fact, the University promotes all initiatives on the part of the teaching faculty for research oriented programmes. The IQAC has institutionalized several good practices to improve, innovate, assure and sustain quality in teaching, learning, research and administration on campus. By introducing academic audit and administrative audit, IQAC facilitated internal quality checks for the university. Feedback of teaching-learning process, self-appraisal by teachers and grievance redressal mechanism are some of the outcomes of internal quality checks. IQAC evolves strategies to improve the academic and administrative functions of the University.

Innovation and Best Practices

University has taken several initiatives towards generating environmental consciousness amongst its stakeholders through activities extending to students, teachers, administrative staff and general public. The main campus at the Priyadarsini Hills as well as the satellite campuses are maintained as eco-friendly that reflects the environmental policy of the University. The University has introduced environmental studies, component in all the UG programmes. As a part of the efforts initiated by Mahatma Gandhi University towards a sustainable future, a comprehensive 'Green Audit' has been conducted. The responsibility of conducting the 'Energy Audit' was assigned to Kerala State Productivity Council – a Kerala state government undertaking and 'Environment Audit' was assigned to the School of Environmental Sciences (SES). Rain water harvesting has been done on a major scale in most of the existing buildings and the University has one of the biggest water conservation ponds in the country with a size of 53 m x 40 m x 22 m. It holds approximately 4.5 Crore litres of water which meets the water needs of the University. The University has initiated steps to implement e-governance in full scale to promote carbon neutrality in its campuses. The University has entered into a tie-up with Clean Kerala Company for the removal of e-waste from the campus through buy-back schemes. The University has set up a

Business Incubation and Innovation Centre (BIIC) in 2016 with a view to generating the entrepreneurial spirit of youth and providing customized support to early stage business ideas with high growth potential. The University also offers effective legal services and counselling for students and other stakeholders.

Profile of the University

1. Name and Address of the University:

| | | |
|----------------|---------------------------|---------------|
| Name | MAHATMA GANDHI UNIVERSITY | |
| Address | PRIYADARSINI HILLS P.O | |
| City: KOTTAYAM | Pin: 686560 | State: KERALA |
| Website: | www.mgu.ac.in | |

2. For Communication

| Designation | Name | Telephone with STD Code | Mobile | Fax | Email |
|--|--------------------|-------------------------|------------|--------------|----------------------|
| Vice-Chancellor | Dr. Babu Sebastian | O: 0481-2731001 | 9447128373 | 0481-2731002 | vc@mgu.ac.in |
| | | R: 0481-2731000 | | | |
| Pro-Vice Chancellor | Dr. Sheena Shukkur | O: 0481-2731005 | 8547889278 | 0481-2732000 | pvc@mgu.ac.in |
| Registrar | Prof. M.R.Unni | O: 0481-2731007 | 9562863686 | 0481-2731009 | registrar@mgu.ac.in |
| | | R: 0481-2731006 | | | |
| Steering Committee / IQAC Co-ordinator | Dr.Sabu Thomas | O: 0481-2730003 | 9447223452 | | sabuthomas@mgu.ac.in |
| | | R: 0481-2597914 | | | |

3. **Status of the University:** State University

4. **Type of University:** Affiliating

5. **Source of Funding:** Central Government and State Government

6. a. **Date of Establishment of the University:** 02/10/1983

b. **Prior to establishment of the University, was it a/an :** N/A



7. Date of recognition as a University by UGC or any other National Agency

| Under Section | dd | mm | yy | Remarks |
|---------------|----|----|------|---------|
| 2f of UGC | 02 | 10 | 1983 | |
| 12B of UGC | 27 | 06 | 1988 | |

8. Has the University been recognized

- a. **By UGC as a University with Potential for Excellence:** No
- b. **For its Performance by any Other Governmental Agencies:** Yes
 - **Adjudged as the Best University Excellence in Kerala in 2016 by the Chancellor.**
 - **Obama-Singh 21st Century Knowledge Initiative under the INDO-US collaborative programme - UGC 2012.**
 - **Promotion of University Research, Science and Education (PURSE) programme by Department of Science and Technology, New Delhi.**
 - **Sophisticated Instrumentation Analytical Facility (SAIF) by Department of Science and Technology, New Delhi.**
 - **DBT BUILDER Programme for promotion of interdisciplinary studies in Science, Education and Research by Department of Biotechnology, New Delhi.**
 - **Nanomission programme for International and Inter University Center for Nanoscience and Nanotechnology by Department of Science and Technology, New Delhi.**
 - **Departments have been recognized by DST/FIST, UGC/ SAP/DRS and KSCSTE/SARD.**
 - **Ingenuity Laboratory to be established in collaboration with University of Alberta, Canada.**
 - **Indira Gandhi NSS National award for the Best University, 2013-14.**

9. Does the University have Off-Campus Centres? No

10. Does the University have off-shore campuses? No

11. Location of the Campus and area:

| | Location | Campus area in acres | Built up area in sq.mts |
|----------------------------------|--|-------------------------|----------------------------|
| Main campus area | Athirampuzha University Campus (Rural) | 103.28 | 107924.00 |
| Other campuses in the country | Within the territorial jurisdiction of the University | 60.2019 | 56920.00 |
| Campuses abroad | NA | NA | NA |

12. Provide information on the following:

- **Auditorium/seminar complex with infrastructural facilities:**

- a) University Assembly Hall – 370 seats
- b) Syndicate Hall
- c) Senate Hall
- d) Mini Conference Hall

All statutory Schools/ Departments of the University have separate seminar halls

- **Sports facilities:**

- Playground: Floodlit roofed basketball court, 200 mts track, Volleyball court, Handball court, Football/Cricket Ground
- Gymnasium: Fitness Centre, Yoga/Wrestling Hall
- Any other (please specify): 100 bedded sports hostel for Boys and Girls

- **Hostel:**

- e) Boys' hostel

- i. Number of hostels : 2
- ii. Number of inmates : 198
- iii. Facilities: Basic amenities needed are provided such as:
 - TV
 - Newspapers
 - Wi-Fi
 - Mess run by students
 - Uninterrupted water supply
 - Guest Accommodation



- Transport facility from hostel to various schools/departments

f) Girls' hostel

- i. Number of hostels : 3
- ii. Number of inmates : 226
- iii. Facilities: Basic amenities needed are provided such as:
 - TV
 - Newspapers
 - Wi-Fi
 - Guest accommodation
 - Mess
 - Uninterrupted water supply
 - Transport facility from hostel to various departments

- **Residential facilities for faculty and non-teaching:** 64 staff quarters, 6 staff quarters for statutory officers and 18 AP quarters for personal staff. 12 quarters for teaching staff.
- **University Guest House:** Facilities: Suite room - 4; A/C Double Room – 4; A/C Single Room - 2; Non-A/C Double Room - 2; Non-A/C Single Room - 8; Dormitory - 2.
- **Cafeteria:** Two canteens in the University Campus. One meant for staff and public and the other meant for students. Besides these, there are eight cafeterias in the University Campus.

- **Health Centre**

Nature of facilities available: impatient, outpatient, ambulance, emergency care facility, etc.

There is a six bedded Health Centre in the University with modern diagnostic facilities. There are two medical officers, one of whom is a lady doctor. There are two nurses in health centre. The centre dispenses basic medicines and one dressing room for basic injuries. There is a gymnasium for women members of the staff and girl students and a lady instructor to provide necessary guidance.

- **Facilities like banking, post office, book shops, etc.**

1. The State Bank of Travancore has established the branch in the University (IFSC Code: SBTR0000669). There are 3 ATMs and one CDM in the Campus.



2. There is a Post Office (Priyadarsini Hills Post Office, Kottayam-686560)
3. The Department of Printing and Publishing has a book shop in the campus where books published by the University as well as other publishers are displayed for sale.

- **Transport facilities to cater to the needs of the students and staff**

The University operates bus services between the main campus and Kottayam/Ettumannor for both staff and students.

- **Facilities for persons with disabilities**

The University has tried to ensure disabled-friendly design in the construction of buildings (ramps in the main administrative block, new Pareeksha Bhavan, ramps, wheel chairs and disabled-friendly toilets in schools etc.) A host of other facilities like wheel chair, battery operated vehicle etc. have also been ensured.

- **Animal house:**

For scientific experiments, the University has an animal house in the School of Biosciences observing all norms in this regard.

Incinerator for laboratories: No incinerators have been installed in the laboratories. Steps are being taken to install the same.

- **Power House:** The University is a HT power consumer and an 11 KV Substation has been set up in the campus for power distribution.

- **Waste management facility**

Solid Waste Management:

Solid wastes like waste paper, old question paper, answer scripts, damaged furniture etc. are disposed through contract arrangement with agencies. Sanitary napkin destroyers have also been installed in the ladies toilets in the University Office and statutory schools/ departments.

Food Waste Management:

For effective management of food waste in the canteens of the schools, a biogas plant has been constructed and it can accommodate 80% food waste generated. The remaining food waste is deposited in pits dug in designated places in the campus. Further, proposals are in the pipeline for construction of incinerators, biogas plants/compost tanks in the campus.



13. Number of institutions affiliated to the University

| Type of Colleges | Total | Permanent | Temporary |
|----------------------------|-------|-----------|-----------|
| Arts, Science and Commerce | 192 | 56 | 136 |
| Law | 7 | 1 | 6 |
| Medicine* | | | |
| Engineering | 43 | 3 | 40 |
| Education | 43 | 7 | 36 |
| Management | | | |
| Others | | | |
| Hotel Management | 1 | | 1 |
| Music & Fine Arts | 1 | 1 | |
| Architecture | 7 | | 7 |
| Physical Education | 1 | | 1 |

*Recently all the medical colleges have been re-affiliated to the Kerala University of Health and Allied Sciences

14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University.

Yes. Number of Autonomous Colleges – 10

15. Furnish the following information

| Particulars | Number | Number of Student |
|---|--------|-------------------|
| University Schools | 15 | 1443 |
| „ Departments | 2 | |
| International and Inter University Centre | 1 | |
| Inter University Centres | 7 | |
| Inter School Centres | 9 | |
| Research Centres on the campus | 27 | |
| Constituent colleges | 7 | 6158 |
| Affiliated colleges | 261 | 1,92,663 |

| | | |
|---|-----|--|
| Colleges under 2(f) | 71 | |
| Colleges under 2(f) and 12B | 71 | |
| NAAC accredited colleges | 67 | |
| Colleges with Potential for Excellence (UGC) | 9 | |
| Autonomous colleges | 10 | |
| Colleges with Postgraduate Departments | 142 | |
| Colleges with Research Departments | 40 | |
| University recognized Research Institutes/Centres | 46 | |

- 16. Does the University confirm to the specification of Degrees as enlisted by the UGC: Yes.**
- 17. Academic programmes offered by the University Departments at present, under the following categories**

| Programmes | Number |
|--------------------|---------------|
| UG | 20 |
| PG | 46 |
| Integrated Masters | 1 |
| M.Phil | 27 |
| Ph.D | 62 |
| Integrated Ph.D | 5 |
| Certificate | 5 |
| Diploma | 2 |
| PG Diploma | 2 |
| M.Tech | 3 |
| Short Term Courses | 8 |
| Total | 181 |



- 18. Number of working Days during the last academic year:** 216
- 19. Number of teaching days during the past six academic years**
a. 179. b. 186 c. 191 d. 185 e. 192 f. 188
- 20. Does the University have a Department of Teacher Education?** Yes.
Year of Establishment: 1992
NCTE recognition details: No. F.K.L/Med/SRO/NCTE/2005-2006 Date: 05/02/2005
Is the Department opting for assessment and accreditation separately? No.
- 21. Does the University have a Department of Physical Education?** Yes.
Year of Establishment: 1983
NCTE recognition details: NA
Is the Department opting for assessment and accreditation separately? No.
- 22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered?** NA
- 23. Has the University being reviewed by any regulatory authority? If so, furnish a copy of report and action taken there upon:** No.

- 24. Number of Positions in the University**

| Positions | Teaching Faculty | | | Non-teaching Staff | Technical Staff |
|---|------------------|---------------------|---------------------|--------------------|-----------------|
| | Professor | Associate Professor | Assistant Professor | | |
| Sanctioned by the UGC/University/State Govt | 14 | 26 | 88 | 1953 | |
| Recruited | 22* | 24 | 45 | 1753 | |
| Yet to be Recruited | 37 | | | 200 | |
| Number of persons working on contract | | | | 258 | |

* Increased number is due to promotions

25. Qualifications of Teaching Staff

| <i>Highest Qualification</i> | <i>Professors</i> | | <i>Associate Professors</i> | | <i>Assistant Professors</i> | | <i>Total</i> |
|---|-------------------|----------|-----------------------------|----------|-----------------------------|----------|--------------|
| | <i>M</i> | <i>F</i> | <i>M</i> | <i>F</i> | <i>M</i> | <i>F</i> | |
| <i>Permanent Teachers</i> | | | | | | | |
| D.Sc./D.Litt. | 1 | - | - | - | - | - | 1 |
| Ph.D. | 17 | 4 | 16 | 5 | 27 | 8 | 77 |
| M.Phil. | - | - | 1 | 2 | 2 | 3 | 8 |
| P.G. | - | - | - | - | 2 | 3 | 5 |
| <i>Temporary Teachers (Guest Faculty)</i> | | | | | | | |
| Ph.D. | - | - | - | - | 8 | 5 | 13 |
| M.Phil. | - | - | - | - | 8 | 4 | 12 |
| P.G. | - | - | - | - | 10 | 16 | 26 |

26. Emeritus, Adjunct and Visiting professors

| | Emeritus | Adjunct | Visiting |
|---------|----------|---------|----------|
| Numbers | 03 | - | 05 |

27. Chairs instituted by the University

| Chairs | |
|---------------|---|
| 1. | Dr Paulos Mar Gregorios Chair |
| 2. | Nelson Mandela Chair for Afro-Asian Studies |
| 3. | KPS Menon Chair for Diplomatic Studies |
| 4. | K.R.Narayanan Chair for Human Rights and Social Justice |
| 5. | Kuriakose Elias Chavara Chair |
| 6. | Sree Narayana Guru Chair |
| 7. | Linus Pauling Chair |
| 8. | The Chair on Hybrid Materials |
| 9. | The Chair on Nanoscience and Nanotechnology |
| 10. | G Sankarakurup Chair |
| 11. | R Narendra Prasad Chair |
| 12. | I C Chacko Chair |
| 13. | Vivekananda Chair |
| 14. | C H Muhammed Koya Chair |
| 15. | Dr. B.R. Ambedkar Chair |
| 16. | Kannassa Poets Chair |
| 17. | Pala Narayanan Nair Chair |
| 18. | Vaikom Muhammed Basheer Chair |
| 19. | Rajiv Gandhi Chair for Public Policy Studies |



28. Students enrolled in the University departments during the current academic year with following details

Post Graduate programme:

| Academic Year | 2010-11 | | 2011-12 | | 2012-13 | | 2013-14 | | 2014-15 | | 2015-16 | |
|---------------|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|
| | M | F | M | F | M | F | M | F | M | F | M | F |
| General | 67 | 124 | 81 | 124 | 83 | 125 | 82 | 128 | 81 | 130 | 87 | 135 |
| OBC | 23 | 42 | 28 | 41 | 29 | 43 | 29 | 44 | 27 | 44 | 26 | 45 |
| SC | 18 | 32 | 21 | 32 | 22 | 32 | 22 | 28 | 25 | 26 | 23 | 36 |
| ST | 9 | 16 | 11 | 15 | 11 | 15 | 10 | 16 | 12 | 25 | 12 | 16 |
| Total | 117 | 214 | 141 | 212 | 145 | 215 | 143 | 216 | 145 | 225 | 148 | 232 |
| Total | 331 | | 353 | | 360 | | 359 | | 370 | | 380 | |

29. Unit Cost of Education

- a) including the salary component = Rs.159,99,76,145/200264 = 7989.33
b) excluding the salary component = Rs. 35,90,62,400/ 200264 = 1792.94

30. Academic staff College: Nil.

31. Does the University offer Distance Education programme (DEP): No.

32. Does the University have a provision for external registration of students: No.

33. Is the University applying for Accreditation or Re-assessment? If accreditation, name the Cycle.

Re-accreditation : Cycle 3

34. Date of Accreditation

Cycle 1: 15/09/2003, Accreditation outcome/Result: **B+**

Cycle 2: 08/01/2011, Accreditation outcome/Result: '**B**' Grade (2.90)

35. Does the University provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated/costituent/autonomous colleges: Yes. The Website provides a list of such colleges.

36. Date of establishment of Internal Quality Assurance cell and dates of submission of Annual Quality Assurance Reports (AQAR)

IQAC established on 03/11/2009

IQAC reconstituted as per NAAC guidelines on 31/10/2015

AQAR (i) 2010-11 submitted on 08/08/2016

(ii) 2011-12 submitted on 14/01/2016

- (iii) 2012-13 submitted on 10/02/2016
- (iv) 2013-14 submitted on 03/03/2016
- (v) 2014-15 submitted on 10/08/2016

37. Any other relevant data, the University would like to include (not excluding one page)

At present, Mahatma Gandhi University offers research programmes in over forty disciplines through its own Schools as well as through its approved research centres. The University has close collaboration for academic, research and extension programmes with a number of national agencies and institutions including the UGC, DST, DRS, ISRO, COSIST, CSIR, DAAD, STEC, ICMR, BRNS, MoES, ICCR, ICHR, IED, IIFT, Institute of Chinese Studies and the Sahitya Akademi. The University is also involved in active collaboration with research institutions of international reputation such as the Max Planck Institute, Germany, University of Nantes, France, California Institute of Technology, USA, University of Toronto, Canada, Catholic University, Belgium, Heidelberg University, Germany, Institute of Political Studies, Rennes, France, POSTECH, South Korea, Brown University, Duke University and Plymouth State University of USA, Technical University, Denmark and Ben-Gurion University, Israel.

The University provides a web-enabled University Library with its large collection of books, journals and e-journals, the online Theses Digital Library with open access to its enviable collection of digitized PhD dissertations. The publishing unit which has brought out hundreds of titles in Malayalam, English and Hindi, the facilities available at the School of Physical Education and Sports Sciences for developing physical culture, the ecologically sensitive extension programmes initiated by the University Departments and the National Service Scheme and the Students' Web Centre with round-the-clock web-support to the campus community are other major facets.

The Department of Science and Technology identified 30 Universities with h-index ranging from 42-26 for R&D support during 2010- 2011. Mahatma Gandhi University with an h-index of 35 was ranked 8 among the 30 Indian Universities and ranked first among all Universities of Kerala. A second Phase of the PURSE grant was sanctioned by DST to 14 Indian Universities including Mahatma Gandhi University based on the h-index value.

Prof. Dr. Sabu Thomas, Hon. Director, International and Inter University Centre for Nanoscience and Nanotechnology has the highest h-index (78), highest number of Citations (28131) and highest number of publications (820) in the state of Kerala as per Google scholar.

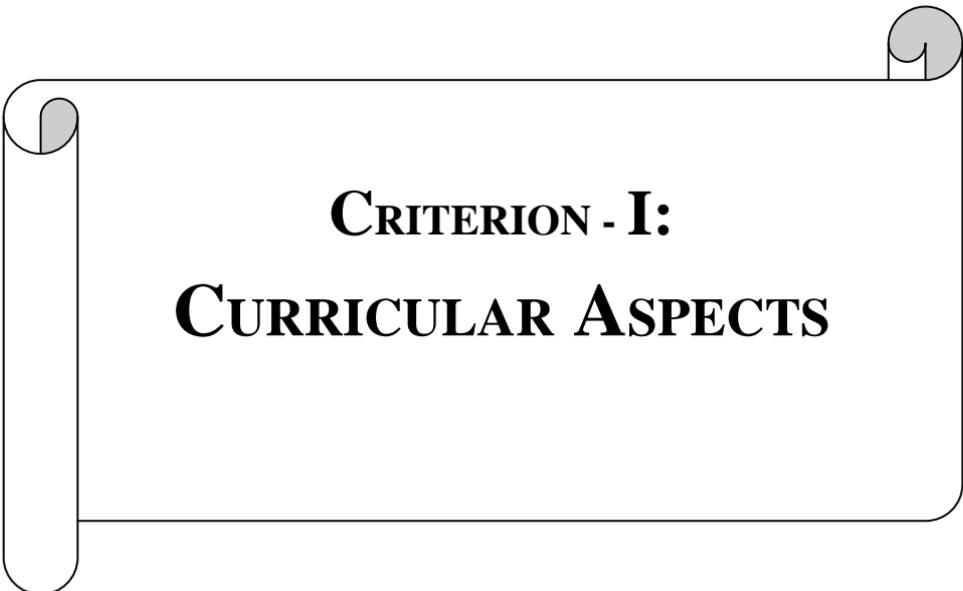
Mahatma Gandhi University was one among the four institutions and the only State University in India for having been awarded the "Obama-Singh 21st Century Knowledge Initiative" by UGC for the period 2012-15.



The Research output of Mahatma Gandhi University was again recognised by DST and the University was sanctioned funds for establishing the Sophisticated Analytical Instrumentation Facility (SAIF) 2015-2018.

Mahatma Gandhi University was the only University in Kerala to be awarded the DBT BUILDER Programme for the period 2012-17.

Mahatma Gandhi University was part of India's expedition in Polar regions.

A decorative scroll graphic with a black outline and grey shading on the rolled-up ends. The text is centered within the scroll.

CRITERION - I:
CURRICULAR ASPECTS

CRITERION - I: CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

Mahatma Gandhi University envisions excelling in the field of higher education and catering to the scholastic and developmental needs of the individual, through the continuous creation of a critical knowledge base for the society's sustained and inclusive growth. The focus of the University is on the all-round development of the individual, who is expected to become skilled, cultured, socially conscious and socially useful through education. The idea of social empowerment that the underprivileged individual gains as a result of education is built into the goals and objectives. The institutional goals are effectively translated into the academic programmes, research and extension activities of the University.

The academic consideration pertains to the production, transmission and extension of new knowledge that would facilitate national development through the imparting of advanced skills and aptitude of global demand. The programmes and courses offered by the Schools/Departments/ Centres focus on strengthening of students' knowledge in the respective areas of study and realization of core values. Since all the programmes are interdisciplinary in nature, the objective of the students' holistic development is easily achieved. The Inter School collaboration envisaged under the Credit and Semester System (CSS) makes room for open courses that promote value education and social citizenship. Inter University Centres established by the University promote interdisciplinary participatory research among the research and academic institutions within the State.

Through the range of programmes offered, the university envisages to meet the educational needs of all the stakeholders. The university promotes the use of technological innovations in teaching-learning and governance. Academic autonomy is given to Schools in curriculum design and development. The syllabi are periodically modified in tune with the developments occurring in the concerned disciplines. Advanced level training in several activities of self-development, promotion of community welfare, ensuring equity, ecological justice and environment sustainability are all integral to the university's mission and its objectives.



1.1.2 Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Yes. The university follows a systematic process in the design and development of the curriculum as detailed below:

The academic programmes of the University are under the Credit and Semester System (CSS) where a participatory method of curriculum development is followed. The process involves the participation of academic bodies such as Faculty Council, Boards of Studies, respective Faculties and the Academic Council. Based on the need assessment and feedback from the stakeholders, the process of curriculum development is initiated by the Faculty Council, recommended by the respective Boards of Studies and approved by the Academic Council.

Through this process, the contemporaneity and relevance of the programmes offered are ensured keeping in view the societal needs. Once the curriculum and the basic course material have been put in place, the courses are revised and updated on the basis of feedback from various stakeholders. The Boards of Studies in different subjects are as follows:

Boards of Studies

| UG Boards | PG Boards | BOS in Schools/Centers |
|---------------------|-------------------|--|
| English | English | School of Behavioural Sciences |
| Malayalam | Hindi | School of Bio Sciences |
| Hindi | Malayalam | School of Chemical Sciences |
| Sanskrit | Mathematics | School of Computer Sciences |
| Arabic | Statistics | School of Environmental Sciences |
| French | Chemistry | School of Gandhian Thought & Development Studies |
| Syriac | Physics | School of Indian Legal Thought |
| Political Science | Botany | School of International Relations & Politics |
| History | Zoology | School of Letters |
| Economics | Economics | School of Management and Business Studies |
| Sociology | History | School of Pedagogical Sciences |
| Commerce | Commerce | School of Physical Education and Sports Sciences |
| Islamic History | | School of Pure and Applied Physics |
| | | School of Social Sciences |
| Psychology(UG & PG) | Political Science | School of Tourism Studies |

| | | |
|----------------------------------|-----------------------|--|
| Philosophy(UG & PG) | Computer Science | |
| Mathematics | Education | |
| Statistics | Home Science | |
| Physics | Arabic | |
| Chemistry | Management | |
| Botany | Engineering | |
| Zoology | Master of Social Work | |
| Computer Application | Microbiology | |
| Electronics | | |
| Home sciences | | |
| Food Science and Quality Control | | |
| Microbiology | | |
| Education | | |
| Physical Education | | |
| Management and Business Studies | | |
| Engineering | | |
| Law | | |
| Geology | | |

- The university follows the guidelines put forward by the regulatory bodies such as University Grants Commission (UGC), All India Council for Technical Education (AICTE), National Council for Teacher Education (NCTE), Pharmacy Council of India (PCI), Rehabilitation Council of India (RCI), Indian Nursing Council (INC) and Bar Council of India (BCI) for restructuring the curricula.
- The CSS Academic Advisory Committee regularly monitors and evaluates the Credit and Semester System followed in the university Schools/Departments and Centres.
- In order to make the need assessment, Schools keenly watch the developments in the frontier areas of the disciplines. The proposals for new programmes/courses are initiated by the Schools based on the developments in the discipline, need assessment, expert discussions and feedback from the stakeholders. The faculty members of the Schools on a regular basis interact with various stakeholders including R&D organizations, industry, entrepreneurs and alumni to identify the aptitude, skill and knowledge requirements of the society. These feedbacks are obtained by informal discussions, seminars/workshops and meetings.



- To ensure quality and to keep abreast of the times, the university organises curriculum workshops in different disciplines and subjects to design curriculum not only for the Schools but also for the various programmes offered in its affiliated Colleges. In fact, the University conducted 360 workshops during the assessment period.

1.1.3 How are the following aspects ensured through curriculum design and development?

- **Employability**
- **Innovation**
- **Research**

➤ The University ensures employability by :

- Introducing Bachelor of Vocational (B.Voc.) programmes in affiliated colleges in ten different specializations to enhance employability.
- Introducing new programmes that include new Certificate, Diploma, PG Diploma, Degree, PG, M Phil, M Tech and PhD programmes including B. Sc. (Cyber Forensic), PG Diploma in Indian Sign Language, Masters in Nanoscience and Nanotechnology, M. Tech/M.Phil. in Computer Science and M. Tech in Polymer Science and Technology.
- Incorporating new courses in emerging areas in the existing programmes. The University makes sure that the contents of all the courses cater to the career needs of the students.
- Providing short term add-on courses on different scientific and computational tools to students.
- Additional Skill Acquisition Programme (ASAP), a joint initiative of Departments of Higher Education and General Education, Government of Kerala, is set up as part of the State Skill Development Project in affiliated colleges to address the existing unemployment issues in Kerala.
- Imparting of English language skills by Centre for English Language and Communication Skills (CELCS).
- Students are given hands-on experience in the state of the art laboratories of the University departments.
- Providing opportunities for students to interact with reputed national laboratories and industries through major projects and industrial visits to enhance employability.
- Conducting capacity building and knowledge up-gradation workshops and skill development programmes in emerging areas.



- Conducting coaching classes for various competitive examinations through University Employment Information and Guidance Bureau.
- The Schools/Centres of the university have taken steps for increasing employability by collaborating with different Government bodies, industries and academic institutions of national & international repute to cater to the needs of the industry/academia.
- There is a Placement and Training Cell headed by a Faculty member which ensures mentoring of the students through special programmes on soft skills, leadership qualities, personality traits, communication skills, essential life skills, internet ethics, and etiquette among the students. Placement and Training Cell co-ordinates soft skill training and placement services in colleges.
- Introducing one School, one International Inter University Centre, seven Inter University Centres, ten Inter School Centres and one Business Innovation and Incubation Centre during the assessment period.
- The university has established a Business Innovation and Incubation Centre (BIIC) in 2016 with the seed capital from the Government of Kerala. The main objective of the BIIC Start-up incubators is to kindle the entrepreneurial spirit among students. It supports job creation, University–Industry collaboration and to generate revenue for local business establishments and governments. The BIIC aims to inculcate among students a culture of job creation as opposed to a culture of job seeking.

➤ **The University ensures innovation by:**

- Designing new and relevant courses in the emerging and frontier areas of knowledge. The curriculum caters to the differential requirements of the society. The PG diploma in Indian Sign Language offered by the University is an example of such innovation.
- Introducing open courses to facilitate multidisciplinary learning, cutting across the limitations of conventional discipline based studies.
- Establishing International Inter University/Inter University Centres for promoting the interdisciplinary/participatory research among the research and academic institutions within the state and across the globe. Eight Inter School Centres have been established for supporting the academic activities of the Schools/Departments of the University.



- Establishing a Business Innovation and Incubation Centre (BIIC), which aspires to support innovations/ incubations/ entrepreneurship by extending administrative, academic and financial support to students through R&D support, start-up grants and patent facilitation.
- Establishing a Centre for Yoga & Naturopathy and Institute of Research in Learning Disability recently to offer programmes of national interest in the above areas.
- Introducing Massive Open Online Course (MOOC) in 2015, in collaboration with North Carolina A&T State University in USA and Kerala State Higher Education Council.

➤ **The University ensures global competency in academic research and output through a comprehensive and holistic series of measures like**

- Introducing project work in the curriculum with a duration of 6 months to one year in different national/international research institutions of repute.
- Establishing research collaborations and promoting inbound and outbound exchange of students and faculty between research institutions across the globe.
- Incorporating individual/group projects to promote students to invent imaginative solutions to the research problems and to make improvements in laboratory protocols/societal problems to groom their career.
- International and Inter University Centres interdisciplinary focuses on participatory research across conventional disciplines in association with academic institutions within the State and across the globe.
- Promoting inter disciplinary research in various frontier areas of knowledge through the establishment of Inter School Centres.
- Providing state-of-the-art infrastructure, sophisticated instruments and parallel computing facility by the University to researchers to supplement curriculum/ advanced research.
- Promoting publication of edited/authored books/ papers in research journals and making it mandatory as part of PhD programmes.
- Providing online access to research references to support the curriculum through the resourceful central and department libraries.
- It is the first Indian University to adopt Open Access to theses of doctoral degrees awarded by the University by establishing an institutional repository of theses (www.mgutheses.org).



- Efforts to address the needs of differently abled students and researchers by promoting research in disability studies.
- Organizing Conferences/ Workshops/Seminars on cutting edge technologies to instil a research culture into the minds of the students.
- Encouraging students to conduct original research work for their degree leading to publications in internationally reputed journals and grant of patents.
- Promoting students to present research papers in national/ international seminars/conferences.

1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?

The university follows the guidelines issued by the relevant regulatory bodies like University Grants Commission (UGC), All India Council for Technical Education (AICTE), National Council for Teacher Education (NCTE), Pharmacy Council of India (PCI), Rehabilitation Council of India (RCI), Indian Nursing Council (INC), Bar Council of India (BCI) and Kerala State Higher Education Council in developing and restructuring the curricula.

Mahatma Gandhi University was the first in the state of Kerala to introduce UGC regulations for PhD programme with salient features. Innovative measures taken by the University include introduction of a specialised Centre with dedicated programmes/ research in Disability Studies to support disadvantaged sections of the society.

1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefited through interactions with the stakeholders?

Yes. Feedback from the various stakeholders are used in the regular updating of syllabi and making the choice of electives thus meeting the requirements of the academia and industry. Intensive ongoing research interactions with organizations like DST, ICSSR, CSIR, DBT, ICMR, ICCR, KILA, CDS, AICTE, DRDO, ISRO, BRNS, and KSCSTE etc. have made an impact on the curriculum development process. Due to such interactions, the global trends in higher education are reflected in the curriculum. For developing the curriculum, experts from institutions like Raman Research Institute, Bangalore and Rubber Research Institute of India, Kottayam and experts from industries such as SABIC, Apollo Tyres, MRF Tyres etc. are being consulted. The University is considerate to comply with the genuine insights of the stakeholders in the curriculum development process.



1.1.6 Give details of how the university facilitates the introduction of new programmes of studies in its affiliated colleges.

Affiliated institutions are statutorily allowed to apply for starting new programmes/courses every year based on regional requirements. The Syndicate delegates a Commission to assess the physical and infrastructure facilities available in the College and its report is eventually considered by the Syndicate and the State Government. Once the programme is sanctioned by the Government, the Syndicate grants affiliation to the new programmes/courses. In all cases when new courses/programmes are introduced, the Board of Studies conducts detailed discussions and workshops for the formulation of the curriculum. The recommendations of the Board of Studies are placed before the Academic Council for formal approval.

1.1.7 Does the university encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances (not applicable for unitary universities).

- Additional Skill Acquisition Programme (ASAP), a joint initiative of Departments of Higher Education and General Education, Government of Kerala which is set up as part of the State Skill Development Project to enhance the employability of students is promoted by the University through its colleges.
- The university has introduced B.Voc. degree Programmes, which incorporate specific job roles along with broad based general education, with ten different specializations in five Colleges. The programmes are
 - B.Voc. Animation and Graphic Design
 - B.Voc. Fashion Technology
 - B.Voc. Food Processing Technology
 - B.Voc. Logistics Management
 - B.Voc. Marketing Management and Information Technology
 - B.Voc. Renewable Energy
 - B.Voc. Retail Management and Information Technology
 - B.Voc. Sports Nutrition and Physiotherapy
 - B.Voc. Sustainable Agriculture
 - B.Voc. Tourism and Hospitality
- The university has specifically designed Model II (vocational) programmes at the U.G. level in different disciplines to enhance employment potential.
- The university facilitated establishment of six Community Colleges in the affiliated Colleges which offer tailor made skill oriented programmes specific to the regional needs.



- The university has facilitated starting of add-on courses in its colleges with UGC support. The office of the Director, College Development Council has an active role in starting such skill oriented programmes.

1.2 Academic Flexibility

1.2.1 Furnish the inventory for the following:

- Programmes taught on campus:

| Sl. No. | Department | Level of the Programme | Subject |
|---------|--------------------------------|------------------------|---|
| 1 | School of Behavioural Sciences | PG Diploma | Indian Sign Language |
| | | | Counselling Psychology |
| | | PG | Disability Studies and Rehabilitation Sciences |
| | | | Psychology |
| | | M.Phil. | Behavioural Medicine & Rehabilitation |
| | | | Rehabilitation Psychology |
| | | | Special Education & Rehabilitation Sciences |
| | | | Behavioural Sciences and Rehabilitation Nursing |
| | | Ph.D | Special Education |
| | | | Psychology |
| | | | Behavioural Medicine |
| | | | Rehabilitation Nursing |
| 2 | School of Biosciences | PG | Microbiology |
| | | | Biochemistry |
| | | | Biotechnology |
| | | | Biophysics |
| | | M.Phil. | Biosciences |
| | | Ph.D | Microbiology |
| | | | Biochemistry |
| | | | Biotechnology |
| | | | Biophysics |
| | | | Physiology |
| 3 | School of Chemical Sciences | PG | Organic Chemistry |
| | | | Inorganic Chemistry |
| | | | Physical Chemistry |
| | | | Polymer Chemistry |
| | | M.Phil. | Inorganic Chemistry |
| | | | Organic Chemistry |
| | | | Physical Chemistry |
| | | | Polymer Chemistry |
| | | M.Tech | Polymer Science & Technology |



| | | | |
|---|---|--|--|
| | | M.Sc. PhD (Integrated) (2013-15) | Chemistry |
| | | | Chemical Physics |
| | | Ph.D | Inorganic Chemistry |
| | | | Organic Chemistry |
| | | | Physical Chemistry |
| | | | Polymer Science & Technology |
| 4 | School of Computer Sciences | PG | Computer Science |
| | | M.Tech | Computer Science & Technology |
| | | M.Phil. | Computer Science |
| | | Ph.D | Computer Science |
| 5 | School of Environmental Sciences | Certificate Course | Geo-information Science & Technology |
| | | PG | Environment Science & Management |
| | | | Environment Science & Disaster Management |
| | | M.Phil | Environment Management |
| | | Ph.D | Environmental Sciences |
| 6 | School of Gandhian Thought and Development Studies | PG | Gandhian Studies |
| | | | Development Studies |
| | | M.Phil. | Development Studies |
| | | | Gandhian Studies |
| | | | Social Work |
| | | Ph.D | Development Studies |
| | | | Gandhian Studies |
| | | | Inter-disciplinary social sciences |
| 7 | School of Indian Legal Thought | UG | 3 Year LLB |
| | | | 5 Year BBA LLB |
| | | | 3 Year BBA LLB (Hons.) |
| | | PG | LLM |
| | | Ph.D | Law |
| 8 | School of International Relations & Politics | PG | Politics & International Relations |
| | | | Politics & Human Rights |
| | | | Politics(Public Policy & Governance) |
| | | M.Phil | Politics and International Relations |
| | | Ph.D | International Relations |
| | | | International Relations(Economics) |
| 9 | School of Letters | PG | English |
| | | | Malayalam |



| | | | |
|----|--|------------------------|--|
| | | M.Phil. | Malayalam |
| | | | English |
| | | | Theatre Arts |
| | | Ph.D | English |
| | | | Malayalam |
| | | | Theatre Arts |
| | | | Cultural Studies |
| | | | Comparative Literature |
| 10 | School of Management and Business Studies | PG | MBA |
| | | M.Phil. | Business Studies |
| | | Ph.D | Management |
| 11 | School of Pedagogical Sciences | PG | M.Ed |
| | | M.Phil | Education |
| | | Ph.D | Education |
| 12 | School of Physical Education & Sports Sciences | PG | M.P. Ed. |
| | | Ph.D | Physical Education |
| 13 | School of Pure and Applied Physics | PG | Physics |
| | | M.Phil | Physics |
| | | Ph.D | Physics |
| 14 | School of Social Sciences | PG | History |
| | | | Anthropology |
| | | M.Phil. | Social Sciences |
| | | | Social Transformation and Empowerment |
| | | | Human Ecology & Natural History |
| | | Ph.D | Social Sciences |
| 15 | School of Tourism Studies | PG | Master of Tourism and Travel Management (MTTM) |
| | | Ph.D | Tourism Studies |
| 16 | Department of Life Long Learning and Extension | Certificate Programmes | Yogic Science |
| | | | Counselling |
| | | | Management of Learning Disabilities |
| | | | Organic Farming |
| | | Diploma Programmes | Yogic Science |
| | | | Organic Farming |
| 17 | International and Inter University Centre for Nanoscience and Nanotechnology | PG | Nanoscience and Nanotechnology |
| | | M.Phil | Nanoscience and Nanotechnology |
| | | Ph.D | Nanoscience and Nanotechnology |
| | | Integrated M.Sc.-Ph.D | Nanoscience and Nanotechnology |



| | | | |
|----|--|----------------------------------|---|
| 18 | Advanced Centre for Environmental Studies and Sustainable Development | Ph.D | Environmental Science |
| | | | Chemistry |
| | | | Forestry |
| | | | Human Ecology |
| | | | Climate Change |
| | | | Environmental Pollution |
| | | | Social Science |
| | | | Life Science |
| | | Short Term Certificate Programme | Advanced Analytical Instrumentation |
| 19 | Inter University Centre for Bio Medical Research & Super Speciality Hospital | Ph.D | Bio Medical Research Drug Design and Development |
| 20 | Inter University Centre for Disability Studies | Short Term Certificate Programme | Early Assessment and Management Services |
| | | | Speech Therapy |
| | | | Physiotherapy |
| | | | Psychological Assessments |
| | | | Counselling Services |
| | | | Disability Assessments |
| | | M.Phil | Disability Studies |
| 21 | Inter University Instrumentation Centre | Ph.D | Chemistry Physics Biology Environmental Science Nanoscience |
| | | Short Term Course | Analytical Instrumentation |
| 22 | Inter University Centre for Social Science Research and Extension | Ph.D | Human Geography |
| | | | Human Ecology |
| | | | Social Transformation Studies |
| | | | Gender Studies |
| | | | Tribal Studies |
| | | | Sustainable Development Studies |
| | | | Praxis Intervention |
| 23 | Advanced Molecular Materials Research Centre | Ph.D | Material Science |



| | | | |
|----|---|---------------------------|--|
| 24 | Centre for English Language and Communication Skills | Certificate Programmes | Post Graduate Certificate in English Communication |
| 25 | Institute for Intensive Research in Basic Sciences | 5 Year Integrated Masters | Integrated Inter Disciplinary MS Programme in Chemistry, Physics and Biology |
| | | Integrated Ph.D | Chemistry |
| 26 | Dr.K.N.Raj Study Centre for Planning and Centre-State Financial Relations | PG | Economics |
| 27 | National Institute of Plant Science Technology | M.Sc-Ph.D Integrated | Plant Science and Technology |
| 28 | University College of Engineering | UG | B Tech (Computer Science & Engineering) |
| | | | BTech (Electronics & Communication Engineering) |
| | | | B Tech (Electrical & Electronics Engineering) |
| | | | B Tech (Information Technology) |
| | | | B Tech (Polymer Engineering) |
| | | PG | M Tech (Applied Electronics) |
| | | Ph.D | Electronics |
| 29 | School of Technology and Applied Sciences | UG | B Tech. Polymer Engineering |
| | | | B Sc. Computer Science |
| | | | B Sc. Electronics |
| | | | B Sc. Cyber Forensic |
| | | PG | MCA |
| | | | M Sc. Applied Electronics |
| | | | M Sc. Computer Science |
| | | | M Sc. Space Science and Technology |
| | | Ph.D | Electronics |
| | | | Physics |
| | | | Material science |
| | | | Polymer Technology |
| 30 | School of Applied Life Sciences | PG | M Sc. Fishery Biology & Aquaculture |
| | | M.Phil | Fishery Biology & Aquaculture |



| | | | |
|----|---|------|---|
| 31 | School of Medical Education | UG | B Sc. Nursing |
| | | | B Sc. Medical Laboratory Technology |
| | | | Bachelor of Physiotherapy |
| | | | BSc Medical Radiological Technology |
| | | | B Pharm |
| | | | B Sc. Medical Microbiology |
| | | PG | M Pharm (A) Pharmaceutics |
| | | | M Pharm (B) Pharmacology |
| | | | Master of Hospital Administration |
| | | | Master of Public Health |
| | | | Master of Physiotherapy |
| | | | Master of Medical Documentation |
| | | | M Sc. Medical Microbiology |
| | | | M Sc. Medical Biochemistry |
| | | | M Sc. Medical Anatomy |
| | | | Master of Biomedical Instrumentation |
| | | Ph.D | Pharmacy |
| 32 | University College of Teacher Education | UG | B Ed |
| 33 | School of Communication & Journalism | PG | Master of Arts in Journalism and Mass Communication (MAJMC) |
| 34 | Department of Library & Information Science | UG | B L I Sc. |
| | | PG | M L I Sc. |

➤ **Overseas programmes offered on campus:**

- Mahatma Gandhi University conducts overseas programme on Global Understanding through its Massive Open Online Course (MOOC) with the programme developed by North Carolina A & T State University, USA funded by Kerala State Higher Education Council that enables the university to reach overseas audience.
- School of International Relations and Politics has agreements with the following institutions:
 1. Institute of Political Studies, Rennes, France
 2. The Institute of Political Studies, Bordeaux, France.
 3. Jinan University, China



This enables the School to offer courses specific to developing countries for a period of two semesters to the students of the above French institutions.

- The School of International Relations and Politics had offered a one month course to the undergraduate students of Earlham College, Indiana, USA as part of the College's programme on understanding the Government and Politics of India.
- Overseas students visit International Inter University Centre for Nanoscience and Nanotechnology to perform bachelor, master and Ph.D projects and the resulting credits are transferred to the parent institute abroad.

➤ **Programmes available for Colleges to choose from:**

UG Programmes:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Commerce
- Bachelor of Technology
- Bachelor of Business Administration
- Bachelor of Business Management
- Bachelor of Computer Application
- Bachelor of Fashion Technology
- Bachelor of Physical Education
- Bachelor of Tourism and Travel Management
- Bachelor of Vocational (B Voc)
- Bachelor of Law
- Bachelor of Pharmacology
- Bachelor of Education
- Bachelor of Pharmacy
- Bachelor of Physiotherapy
- Bachelor of Library And Information Science
- Bachelor of Social Work

PG Programmes:

- Master of Arts
- Master of Science



- Master of Commerce
- Master of Technology
- Master of Tourism and Travel Management
- Master of Communication and Journalism
- Master of Management in Hospitality
- Master of Social Work
- Master of Law
- Master of Business Administration
- Master of Human Resource Management
- Master of Computer Applications

The programmes are given in a wide variety of subjects ranging from traditional disciplines to professional and vocational subjects.

1.2.2 Give details on the following provisions with reference to academic flexibility

a. Core / Elective options:

As per the Credit and Semester (CSS) regulations of the university, core/elective options are open to all students of different programmes. Students can choose the electives offered by the parent department in every semester based on their aptitude and relevance of the course in consultation with the Faculty Advisor. The wide array of electives enables the student to opt for specialisation, besides providing considerable flexibility.

Open Course: In addition to this, CSS provides provision for open courses conducted by a School/Centre/Institute other than the parent department. Every regular postgraduate student is required to choose an open course of 4 credits in the third semester. It offers a student the opportunity to attend courses offered by another school /faculty.

b. Enrichment courses:

The opportunities provided via open courses under CSS are meant for the overall enrichment of the courses that students take from the parent department. Besides, Schools also offer supplementary enrichment programmes. Some of the enrichment courses offered by the Schools are listed below:

- School of Behavioural Sciences: Conducts open courses in Counselling/ Disability Studies and add on courses in Indian Sign Language, Statistical Package for Social Sciences, Basic Concepts of Statistical Inference, and evening course on Learning Disabilities etc.



- School of Biosciences/ School of Chemical Sciences: Conducts UGC-CSIR orientation programmes for students.
- School of Computer Sciences: As part of the Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India), students and research scholars of the School are given short add on courses on different software and scientific and computational tools, which are relevant to their curriculum. The School also offers regular skill enhancement workshops/ seminars on emerging areas. Remedial/Bridge courses (pre-requisite for advanced courses in third semester) are offered during vacation time.
- School of Environmental Sciences: Offers two open courses to give awareness to the students of other disciplines on environment, natural resource utilization, waste management and sustainable development. A MOOC programme was conducted in collaboration with Indian Institute of Remote Sensing (IIRS) and ISRO for M Sc. and M Phil students. The School also offers EDUSAT Based Online Outreach Programme in Basics of Remote Sensing, Global Navigational Satellite System (GNSS) and GIS for M Sc., M Phil and diploma students.
- School of Letters: The open courses by the School expose the students to areas of film and literary studies.
- School of International Relations and Politics offers open courses in the human rights and Public Policies which help sensitise the stakeholders of the imperatives of these areas in their programmes of study.
- School of Management and Business Studies: Offers certificate courses on Tally Software, Language Learning, Business Analytics and Intelligence etc.
- School of Pure and Applied Physics: Offers a course in Computational Physics, teaching Numerical Methods and a Programming Language. This is complemented with Practical with MATLAB so that the students gain programming skills. Training programs/workshops in Open Source Software are also offered in the School.
- School of Tourism Studies: Offers training in SPSS Software, ODL Communication Software, Computerized Reservation Systems and Remedial courses for student empowerment.
- International & Inter University Centre for Nano science& Nanotechnology: Conducts special course on Research Methodology and Social, Ethical, Legal and Environmental (SELE) issues of Nano science and Nanotechnology.



- To strengthen the academic communication skills of the students in English, the University also has a Centre for English Language and Communication Skills.
- c. **Courses offered in modular form:** In all the academic programmes, course content is structured in a modular form in the syllabi. Such preparation of course as modules facilitates deeper understanding of the subject among students.
- d. **Credit accumulation and transfer facility:** Inter institutional credit transfer is being offered by university for students undertaking projects outside the university. Open courses are offered to students in third semester. The credit for the open course is transferable.
- e. **Lateral and vertical mobility within and across programmes, courses and disciplines.**

Vertical mobility is an integral part of the curriculum. Schools open up new areas of academic, professional and research options before the students in the form of PG, M.Phil., Ph.D, and Post-Doctoral programmes in the discipline.

Limited lateral mobility is available to PG students in the form of elective courses, where the students can select electives suited to their specific talents.

Interdisciplinary lateral mobility is offered in many Centres of the University for performing research effectively. Students with professional degrees are allowed to join the Ph.D programmes in select areas.

1.2.3 Does the university have an explicit policy and strategy for attracting international students?

Yes. The university has an explicit policy and strategy for attracting international students. The University Centre for International Cooperation (UCIC) is exclusively for co-ordinating the enrolment of international students with the support of the Indian Council of Cultural Relations (ICCR). International students are being admitted to all programmes subject to Government and University rules. Some of the Schools/Centres have MoUs with overseas Universities and institutions for joint programmes and collaborative research.

The university has come up with a new 'regulation for admission of international students to various University departments and Colleges' with effect from 2016 to ease the admission process and to make international admissions hassle free. The main feature of this new regulation is the constitution of an International Students Admission Committee (ISAC) to make international admissions a single window process. All the academic programmes are open to international students and the University has reserved 20% additional seats in Schools/Centres of the University and 10% additional seats in Colleges.



1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.

Yes. International students are being admitted to all programmes subject to Government and University rules. Some of the Schools/Centres have MoUs with overseas universities and institutions for joint programmes and collaborative research. The International and Inter University Centre for Nanoscience and Nanotechnology could attract students from countries across the globe for project work leading to bachelors, masters and PhD programmes. The MA (International Relations) programme offered by the University could attract international students from countries like France, USA, Japan, China Vietnam, Ghana, Kazakhstan, Namibia, etc.

The curriculum of academic programmes offered by the Schools maintains global standards and is designed keeping in mind the international requirements. For instance, the Master of Tourism and Travel Management (MTTM) programme of School of Tourism Studies is designed to meet international needs and it offers courses in foreign languages like French and German, Computerized Reservation Systems, International Fare Calculation and Ticketing, Logistics and Cargo Management, Airport Management, Foreign Exchange Management etc. which is intended to equip students with the requirements of a multicultural global workplace.

University has taken up measures to increase the enrolment of international students providing better access and accommodation facilities. The present major constraint is the limited accommodation facilities available for International Students.

1.2.5 Does the university facilitate dual degree and twinning programmes? If yes, give details.

Yes. The university facilitates twinning programme in some of its Schools/Centres. For instance, the M.Tech programme of School of Chemical Sciences offers twinning programme in its last two semesters with universities in USA, France, Germany, Japan and China. The M.S and Integrated M Sc-Ph.D programme offered by International Inter University Centre for Nanoscience and Nanotechnology ensure twinning in its last two semesters with universities and institutes abroad.

At present the university statutes do not give provision for dual degree programmes.

1.2.6 Does the university offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

Yes. The university offers self-financing programmes through its constituent colleges which are specially designed to meet the requirements of the engineering, pedagogy and medical sectors. These constituent colleges follow



separate admission norms, fee structure and appointment practices as stipulated by the respective national councils and government of Kerala.

| Sl. No. | Department/ Schools/ Colleges | Course/ Programmes | Subject |
|---------|--|-----------------------|--|
| 1 | University College of Engineering | UG | B.Tech (Computer Science & Engineering) |
| | | | B.Tech (Electronics & Communication Engineering) |
| | | | B.Tech (Electrical & Electronics Engineering) |
| | | | B.Tech (Information Technology) |
| | | | B.Tech (Polymer Engineering) |
| | | PG | M.Tech (Applied Electronics) |
| 2 | School of Technology and Applied Sciences | UG | Electronics |
| | | | B.Tech. Polymer Engineering |
| | | | B Sc. Computer Science |
| | | | B Sc. Electronics |
| | | PG | B Sc. Cyber Forensic |
| | | | MCA |
| | | | M Sc. Applied Electronics |
| | | | M Sc. Computer Science |
| | | | M Sc. Space Science and Technology |
| | | Ph.D | Electronics |
| | | | Physics |
| | | | Material Science |
| | | | Polymer Technology |
| 3 | School of Applied Life Sciences | PG | M Sc. Fishery Biology & Aquaculture |
| | | M.Phil | Fishery Biology & Aquaculture |
| 4 | School of Medical Education | UG | B Sc. Nursing |
| | | | B Sc. Medical Laboratory Technology |
| | | | Bachelor of Physiotherapy |
| | | | BSc Medical Radiological Technology |
| | | | B Pharm |
| | | | B Sc. Medical Microbiology |
| | | PG | M Pharm (A) Pharmaceutics |
| | | | M Pharm (B) Pharmacology |
| | | | Master of Hospital Administration |
| | | | Master of Public Health |
| | | | Master of Physiotherapy |

| | | | |
|---|---|---------|---|
| | | | Master of Medical Documentation |
| | | | M Sc. Medical Microbiology |
| | | | M Sc. Medical Biochemistry |
| | | | M Sc. Medical Anatomy |
| | | | Master of Biomedical Instrumentation |
| | | Ph.D | Pharmacy |
| 5 | University College of Teacher Education | UG | B Ed |
| 6 | School of Communication & Journalism | PG | Master of Arts in Journalism and Mass Communication (MAJMC) |
| 7 | Department of Library & Information Science | UG | B L I Sc. |
| | | PG | M L I Sc. |
| | | | Organic Farming |
| | | | Counselling |
| | | | Management of Learning Disabilities |
| | | Diploma | Yogic Science |
| | | | Organic Farming |

School of Medical Education offers ten P.G. programmes and six UG programmes to meet the increasing demands of the health care sector and is the first of its kind in the state of Kerala. School of Technology and Applied Sciences offers job oriented Science and Technology programmes from UG to Ph.D level. University College of Engineering offers B.Tech. and M.Tech. programmes in the self-financing stream. Admission policies and teacher qualification in self-financing departments are at par with that of regular programmes while fee structure and pay scales differ.

1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If 'yes,' give operational details.

Yes. The Off-campus programmes offered by the university involve conventional face-to-face mode and the distance mode of education. However, the university has temporarily dispensed with the Off-campus programmes since last year due to UGC directive.



1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?

Yes. CBCS system is in place in the Schools of the university (CSS is the acronym adopted). The MGU-CSS is applicable to all academic programmes of the statutory Departments/Schools/Centres of the University with flexibility to introduce conventional and new generation programmes such as integrated graduate-postgraduate and postgraduate-research programmes. In all the programmes, there have always been core courses, elective courses and options for open courses for the students to choose from. This has been made possible as the faculty members are ready to offer specialised elective and open courses on diverse subjects. The CSS regulations have been revised from time to time in accordance with the current academic needs.

This system has been in force in the affiliated Arts and Science Colleges at the U.G. level from 2009 and P.G. level from 2012 onwards.

1.2.9 What percentage of programmes offered by the university follow:

- **Annual system**
- **Semester system**
- **Trimester system**

All programmes offered by the Schools follow the semester system while professional programmes offered by School of Medical Education follow the annual system as per the norms of the regulatory bodies.

1.2.10 How does the university promote inter-disciplinary programmes? Name a few programmes and comment on their outcome.

- The curricula for all the programmes in the university schools/centres are designed in the inter-disciplinary mode. In addition to the interdisciplinary content of the regular programmes, open courses offer opportunity for students to undergo multidisciplinary courses in various sister Schools. This has helped students to explore new areas of study and perform inter-disciplinary research.
 - ✓ School of Behavioral Sciences offers interdisciplinary programmes in the disciplines of Psychology, Special Education, (mental retardation, visual impairment, hearing impairment and learning disability) Clinical Psychology, Research Methodology and Statistics, Medicine and Nursing.
 - ✓ School of Biosciences is an interdisciplinary department of diverse sub-disciplines of biosciences.



- ✓ School of Chemical Sciences offers interdisciplinary programmes in various areas of Chemical Sciences where students specialise in Organic, Inorganic, Physical and Polymer Chemistry.
- ✓ School of Environmental Sciences offers interdisciplinary Post graduate programmes. A Post graduate diploma in Remote Sensing and GIS is offered in collaboration with ISRO. This course is offered by the School for students from all disciplines.
- ✓ The School of Indian Legal Thought offers a 5 year interdisciplinary BBA LL.B programme with thrust on various specializations and the syllabi cover both Management and Law. As the students are in a position to pursue higher studies in Law as well as Management, the programme has turned out to be successful.
- ✓ School of International Relations and Politics offers interdisciplinary programmes in MA Politics and International Relations, MA Politics and Human Rights, MA Politics (Public Policy and Governance), MPhil Politics and International Relations, Ph.D International Relations, Ph.D International Relations (Economics).
- ✓ School of Pure & Applied Physics offers interdisciplinary programmes in Nanoscience and Nanotechnology and Astronomy & Astrophysics.
- ✓ All the programmes offered by the School of Tourism Studies are inter-disciplinary in nature as knowledge emerging across different disciplines is used in interpreting the tourism phenomena in different geographical, social, cultural, economic and managerial settings.
- ✓ School of Letters offers MA programmes in English and Malayalam, which are essentially interdisciplinary in nature. The MPhil programmes in Malayalam, English and Theatre Arts too identify areas of common concern for the various disciplines. Moreover researches in areas of music, fine arts and Theatre arts too employ an essentially interdisciplinary methodology.
- ✓ The International and Inter University Centre for Nanoscience and Technology offers interdisciplinary programmes at Masters and Ph.D levels consisting of courses relating to various areas of Nanoscience and Nanotechnology cutting across various disciplines like Physics, Chemistry, Biology, Nano-biotechnology, Polymer Science, Material Science etc.
- ✓ The Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) involves in interdisciplinary scientific



research including Chemistry, Environmental Science, Forestry, Human Ecology, Social Sciences and Life Sciences.

- The inter disciplinary initiatives of the university were strengthened in recent times by the establishment of one School (School of Tourism Studies), one International Inter University Centre (International and Inter University Centre for Nanoscience and Technology), seven inter University Centres and ten inter School Centres which facilitate teaching and innovative research. These institutions are examples of convergence of interdisciplinary knowledge and research. Advanced Centre for Environmental Studies and Sustainable Development, Inter University Centre for Biomedical Research, Inter University Centre for Disability Studies, Inter University Centre for Social Sciences Research and Extension etc. are envisaged to consolidate the strengths in various specialised areas of academic interest.

The important outcome and achievements of interdisciplinary research are listed below.

- i. Interdisciplinary research projects sanctioned by various national agencies and institutions including the UGC, FIST, DRS, ISRO, COSIT, CSIR, DAAD, DIT, DRDO, KSCSTE, ICMR, BARC, MOEF, ICCR, ICSSR, ICHR, KSHEC, IED, IIFT etc.
- ii. Academic collaboration with research institutions of international reputation such as the Max Planck Institute, Germany, Brown University, USA, University of Strasbourg, University of Nancy, University of Paris XII, University of South Brittany University of Nantes of France, California Institute of Technology, USA, University of Toronto, Canada, Catholic University Leuven, Belgium, Jinan National University, China, Heidelberg University, Germany, and the Institute of Political Studies, Rennes, France, University of Wisconsin-Parkside, Duke University, Plymouth State University of USA, Technical University of Denmark and Ben-Gurion University, Israel.
- iii. Students and faculty members are able to undertake major challenges on problems of interdisciplinary nature. This enables the University for the effective utilization of interdisciplinary resources.
- iv. Identification of research areas are of innovative nature.

1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented/ knowledge intensive and meeting the emerging needs of students and other stakeholders?

The Credit and Semester System (CSS) followed by the University gives academic autonomy to Schools. For all the programmes, revision of contents of individual courses is being done once in two years on an average. The Board of Studies of the Schools review and update the curriculum periodically. Regular assessment of the contents of individual courses is done by the Faculty Council. Workshops are conducted before major curriculum revisions and due weightage is given to feedback collected from various stakeholders.

1.3.2 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.

- **Inter-disciplinary:**

UG: Two

1. Double Degree BBA.LLB (Hons.) - School of Indian Legal Thought (2011).
2. BSc Cyber Forensic - School of Technology and Applied Sciences.

PG: Two

1. M.Phil in Disability studies – School of Behavioural Sciences (offered through Inter University Centre for Disability Studies) in the year 2011
2. M.Sc Space Science and Technology - School of Technology and Applied Sciences

- **Programmes in emerging areas**

| Academic Year | Name of the Programme | Name of the School/Centre |
|---------------|--|--|
| 2010-11 | i) Master of Tourism and Travel Management (MTTM) | School of Tourism Studies |
| | ii) MS Nanoscience and Nanotechnology | International & Inter University Centre for Nanoscience and Nanotechnology |
| | iii) MPhil Nanoscience and Nanotechnology | |
| 2011-12 | M. A Economics | KN. Raj Centre for Planning and Centre-State Relations |
| 2012-13 | M.Tech in Computer Science with specialization in Communication and Network Technology | School of Computer Sciences |
| 2012-13 | LLM in three branches Viz. Law of Human Rights, Criminal Law & Administrative law. | School of Indian Legal Thought |



| | | |
|---------|--|---|
| 2012-13 | M.Tech in Polymer Science and Technology | School of Chemical Sciences |
| 2012-13 | M.P.Ed | School of Physical Education |
| 2013-14 | i) Integrated M.Sc, Ph.D ii) M.Sc Programme in Plant Science and Technology | International and Inter University Centre for Nanoscience& Nanotechnology. National Institute of Plant Science and Technology (NIPST) |
| 2015-16 | i) M.Phil in Computer Science ii) Post Graduate Diploma in Indian Sign Language | School of Computer Sciences School of Behavioural Sciences |
| 2015-16 | Ph.D | School of Tourism Studies |
| 2016-17 | LLM-one year in three branches-Criminal Law, Law of Crimes, and Environmental law | School of Indian Legal Thought |

New Schools/ Centres in emerging areas

Schools

| Sl.No. | Name of the School | Year of establishment |
|--------|---------------------------|-----------------------|
| 1 | School of Tourism Studies | 2010 |

International Inter University Centre

| | | |
|---|--|------------------------------|
| 1 | International & Inter University Centre for Nanoscience and Nanotechnology | 2009(Course started in 2010) |
|---|--|------------------------------|

Inter University Centres

| Sl.No. | Name of Centre | Year of establishment |
|--------|--|-----------------------|
| 1 | Inter University Centre for Disability Studies(IUCDS) | 2010 |
| 2 | Inter University Centre for Social Science Research and Extension (IUCSSRE) | 2010 |
| 3 | Inter University Centre for Biomedical Research and Super Specialty Hospital(IUCBR & SSH) | 2010 |
| 4 | Inter University Instrumentation Centre (IUIIC) | 2011 |
| 5 | Inter University Centre for Studies in Science of Music(IUCSSM) | 2012 |
| 6 | Inter University Centre for Organic Farming and Sustainable Agriculture (IUCOFSA) | 2016 |



Inter School Centres

| Sl.No. | Name of the Centre | Year of establishment |
|--------|---|-----------------------|
| 1 | Centre for High Performance Computing (CHPC) | 2010 |
| 2 | University Centre for International Co-operation (UCIC) | 2011 |
| 3 | Institute of Contemporary Chinese studies (ICCS) | 2011 |
| 4 | KN Raj Study Centre for Planning and Centre-State Financial Relations | 2011 |
| 5 | Advanced Molecular Materials Research Centre (AMMRC) | 2012 |
| 6 | National Institute of Plant Science Technology (NIPST) | 2012 |
| 7 | Institute of Research in Learning Disability (IRLD) | 2014 |
| 8 | Centre for Yoga and Naturopathy (CYN) | 2015 |

Other Centres

| Sl.No. | Name of the Centre | Year of establishment |
|--------|--|--|
| 1 | Business Innovation and Incubation Centre (BIIC) | 2016 (Sanctioned by Govt. on 28.03.2016) |

1.3.3 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

Feedbacks from the various stakeholders are considered in the revision of the existing programmes. Periodical revision of all programmes is done regularly to meet the demands of the academia and industry as detailed in 1.1.2 and 1.1.3.

The proposals for revising and up-dating the syllabi and introduction of new programmes are discussed in the Faculty Council and taken up by the Board of Studies of the School. Syllabus revision workshops are conducted before major revisions. The BOS assesses the requirements of the programme/course based on:

- Feedback from academia/industry/alumni/students regarding relevance and usefulness of the programme/course.
- Recent advancements in the subject area.
- Instructions of regulatory bodies and syllabi of national level competitive examinations.



The syllabi framed by the BOS are then scrutinized and approved by the Academic Council and implemented. During the assessment period, syllabi of all the programmes were revised or updated.

1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?

The University conducts various short term courses on socially relevant subjects.

- Department of Lifelong Learning and Extension offers
 - Certificate Course in Counselling
 - Certificate Course in Management of Learning Disabilities
 - Certificate / Diploma Course in Yogic Science
 - Certificate / Diploma Course in Organic Farming
- School of Physical Education and Sports Sciences offers
 - Certificate Programmes in Leadership Training
 - Fitness Management
 - Officiating role in different Sports and Games.
- Inter University Centre for Organic Farming and Sustainable Agriculture conducts
 - Organic Farming Training Programmes

All the above programmes are offered during holidays and after regular working hours to encourage participation of regular students.

The University had initiated steps to offer short term programmes in foreign languages, which is meant to help students to meet the linguistic and communication requirements of the global workplace.

1.3.5 Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

Higher order skill development is given major emphasis in curriculum development in all the Schools/Centres especially in Schools which focus on technology oriented programmes. For instance, School of Tourism Studies caters to the manpower requirements of service industries like aviation, hospitality and allied sectors.

Additional Skill Acquisition Programme (ASAP), a joint initiative of Departments of Higher Education and General Education, Government of Kerala which is set up as part of the State Skill Development Project to



enhance the employability of students is promoted by the University through its colleges.

- **School of Behavioural Sciences**

The School organized workshops on Psychological Testing, Cognitive Behaviour Therapy, Data analysis using SPSS software, Indian Sign language and Braille script during the period. This helped in enhancing the competency of students in various areas.

- **School of Environmental Sciences**

A certificate course in Remote Sensing and GIS is offered by the School in collaboration with ISRO as a part of its additional skill development initiative. Remote Sensing and GIS are major tools in many of the technology and environment related explorations.

- **School of International Relations and Politics**

School of International Relations and Politics has facilitated research in Intellectual Property Rights (IPR) and thereby a number of scholars have obtained Ph.Ds in these areas and many others are working in IPR.

- **School of Management and Business Studies**

'Finishing School Programme' offered by the School is in tune with the requirements outlined by National Skill Development Corporation (NSDC) at national level and Additional Skill Acquisition Programme designed by Government of Kerala.

- **School of Indian Legal Thought**

SILT conducts Moot Court and Mock Trial programmes in every semester. The School also organizes a National Level Moot Court competition every year.

- **School of Tourism Studies**

Higher order skill development is the outcome of the programmes offered by the School which ensures employability in the global Tourism and Hospitality Industry and is framed in line with the general guidelines formulated by NCHMCT and IITTM.

- **School of Pedagogical Sciences**

The PG Curriculum has a Course on ICT and Skill Development in the second Semester, which is outlined in the NCTE Guidelines. The Ph.D. Coursework Programme is designed along the framework prescribed by UGC and has components of higher order skill development in research methodology.



1.4 Feedback System

1.4.1 Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes. The university has a formal mechanism to collect feedback on curriculum from students. The general format of the feedback forms is provided by the IQAC of the university. Students' feedback on curriculum is regularly collected by the Schools. The Faculty Councils of the Schools and Boards of Studies take into consideration the specific inputs received in the form of feedback while revising the curricula. The feedback obtained is effectively used by the faculty members for self-appraisal and also for improving the teaching-learning process. Feedback on entire curriculum is collected from the outgoing batch of students. Some Schools have introduced an online system for collecting feedback.

1.4.2 Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.

Yes. The faculty members of the Schools and Centres maintain close association with pioneers in the subject area from academia and industry. They regularly attend national and international conferences/workshops/seminars and meetings of academic bodies of other universities/research bodies. The faculty members also interact with experts in the field who visit the department as external examiners/resource persons for various conferences, workshops and seminars. Some of the Schools utilized suggestions from visiting Erudite Professors/Professors under Obama-Singh 21st Century Knowledge Initiative (OSI) programme. Schools and Centres also participate in webinars/e-seminars/e-conferences through the video conferencing facility. Feedbacks are also sought from experts including the alumni abroad through e-mail.

The experience obtained through these academic interactions is used in curriculum development to keep pace with recent advancements in the field of study.

The Faculty of university schools/centres have regular interface with their counterparts in international research institutions such as the Max Planck Institute, Germany, Brown University, USA, University of Nantes, University of Strasbourg, University of Nancy, University of Paris XII, University of South Brittany of France, California Institute of Technology, USA, University of Toronto, Canada, Catholic University Leuven, Belgium, Heidelberg University, Germany, Institute of Political Studies, Rennes, France, Jinan National University, China, University of Wisconsin-Parkside, Duke University, Plymouth State University of USA, Technical University of Denmark and Ben-Gurion University, Israel. Discussions are carried out through e-mail and Skype vis- a-vis the curriculum revision.



1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

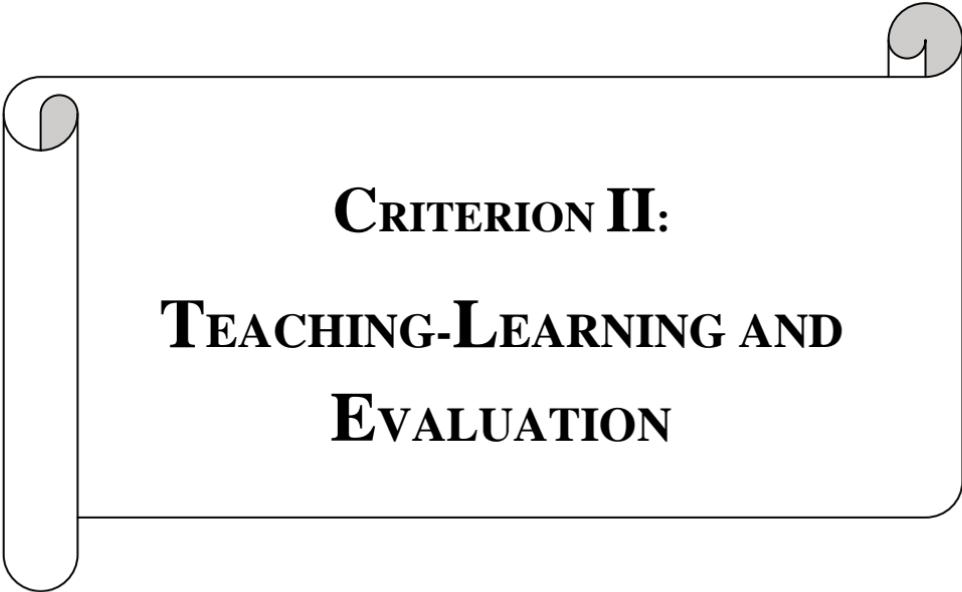
Members of the faculty from recognized affiliated institutions have adequate representation in all the academic bodies of the University. The feedbacks from affiliated institutions are formally presented to the University through these bodies. Regular meetings of the Principals of the affiliated institutions convened by the University also act as a forum for the presentation of feedback on curriculum and other matters from the Colleges. The office of the Director, College Development Council in the university also interacts regularly with the affiliated colleges and receives feedback. Also, prior to major syllabus revisions, workshops are conducted ensuring participation of faculty members from affiliated institutions offering the programme.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?

The quality sustenance and quality enhancement measures undertaken by the University in ensuring the effective development of curricula include:

- Academic interactions with pioneers in the subject area from academia and industry in curriculum development.
- The Schools update curriculum in line with contemporary developments in their respective subjects.
- Utilization of feedback on curriculum elicited from national and international faculty and various stakeholders.
- Due weightage is given to recent advances in various areas, instructions of regulatory bodies and syllabi of national level competitive examinations like UGC-CSIR, NET.
- Incorporating individual/group student projects as part of curriculum to ensure effective industry linkage in the learning process.
- The university has made syllabus revision workshops involving peers along with faculty members in the subject area to keep the programme updated in all respects.
- Introduction of course work and other stipulations as part of PhD regulations to ensure that the programme is as per the national norms.
- Research collaborations and sharing of research students/ exchange programmes with various leading research Institutions.

The IQAC of the university is instrumental in ensuring the quality of the services provided to its stakeholders.

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CRITERION II:
TEACHING-LEARNING AND
EVALUATION

CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the University ensure publicity and transparency in the admission process?

The University follows a systematic admission process which is transparent. All efforts are made to ensure that the notification reaches all the prospective applicants well in time. Prior to the admission process, an assessment of previous year's admission formalities is made by the Admission Monitoring Committee chaired by the Vice-Chancellor. Various issues like reservation of seats, guidelines of the regulatory bodies like UGC, AICTE, etc are discussed and guidelines for new prospectus are prepared. Admission to various programmes offered by the University is through Centralised Allotment Process (CAP) since 2010 where students can apply online for multiple programmes through a single application. Admission to University departments is through a national level multicity entrance test. Reservation policy of the state government is strictly followed in the admission process.

Publicity: University gives wide publicity to its admission process through national newspapers in Malayalam and English and through University Website (www.mgu.ac.in). The Public Relation Office of the University regularly gives caption news about the admission in newspapers under "University News Column".

The website provides detailed information on Schools, academic programmes, research programmes, specializations offered, eligibility criteria, number of seats available, reservation norms, fees structure, co-curricular activities, faculty profile and admission procedures.

The University charges nominal fees as application fee and concession is allowed for SC/ST candidates as per rules and regulations.

Separate admission regulations are made for international students and these are made available to foreign embassies through ICCR. Twenty percent of the total sanctioned strength is given additionally for international students. Applications from international students are processed separately by the University Centre for International Co-operation (UCIC).

Transparency: The Institution ensures transparency in its admission process through the following mechanisms:

- The admission schedule and criteria for selection are widely publicised through the university website and the print media.
- A separate admission processing cell called Centralised Allotment Process (CAP) provides a single window system for admission process.
- It is a completely transparent paperless, student-friendly online admission system where students can make payments online, choose and



correct their options, receive SMS alerts at every stage and login to view the progress in admissions.

2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).

Admission Process: Admission to majority of PG programmes of the Schools/Centers of the University is through a national level Common Admission Test (MGU-CAT) conducted every year during April-May. Fifty percent of the seats are allotted to reserved communities.

Receipt of Application: Applications are received online through the University website with provision for paying the fees on-line where an application number will be automatically allotted. The student needs to submit only a single application for seeking admission to multiple programmes.

Conducting Common Admission Test: The test is conducted at various centers depending on the number of applicants under direct supervision of University officials.

Valuation & Publication of the Rank List: The answer sheets are evaluated within one week and the duly approved rank lists are uploaded on the University website. Category-wise merit lists are also prepared, prior to the commencement of counselling.

Counselling: Based on the rank list, counselling is organized by the CAP cell in which the candidate has to personally attend. The list of selected candidates and vacancy positions are displayed during admissions. The admission process is completed in three rounds.

Reservations of Seats : The reservation policy of the Government of Kerala is strictly adhered to by the university, by renotifying vacant seats thrice in news papers. Spot admissions are given to eligible candidates.

For MBA programme, the admission is based on the score in the aptitude test conducted by various national agencies like AICTE (CMAT), Indian Institute of Management (CAT) and state agency like Admission Supervisory Committee (KMAT), and group discussion and interview. The ratio of weightage is 60:20:20 for test, group discussion and interview.

Admission to M.Tech. is based on GATE score / entrance test.

Admissions for M.Phil. and Ph.D. programmes are based on separate test and interview. The following category of students are exempted from Ph.D. entrance test.

- M.Phil. and M.Tech. degree holders.
- Candidates who have passed the UGC-NET/ GATE/ICAR/ KSCSTE/CSIR/NBHM / ICSSR etc.



- Teachers of universities and colleges approved by the universities in Kerala and scientists in national level research laboratories, who have put in five years of continuous service, and foreign nationals who have been sponsored under a scholarship scheme by the Government of India for undergoing Ph.D. programme in India.

International Students: These students either come through Govt. of India Scholarship schemes of the ICCR or in general category as direct candidates. They are exempted from appearing in the entrance test. Admission is carried out by the UCIC through its International Students Admission Committee (ISAC) to 20% seats, additionally created for international students.

2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

UG & PG admissions for merit quota in affiliated Colleges are done through the Centralised Allotment Process (CAP). Mahatma Gandhi University has the distinction of pioneering centralised admission in Kerala to facilitate admission to affiliated colleges and centres. Despite the existence of a broad spectrum of programmes under its anvil, it was learnt from prior experience that students often were not properly informed about these programmes with the result that they could not exercise a fair choice of programmes suited to their aptitude. Also, seats in many programmes which were instituted with huge capital investment often remained unfilled. It was with a view to eliminating such problems and streamlining the post graduation admission procedure that the centralised admission process (CAP) was conceptualized by the Mahatma Gandhi University and was later implemented from the academic year 2010.

The biggest advantage for students through CAP is that an applicant needs to submit only a single application for a multitude of programmes offered in different colleges, thereby minimizing the cost, time and effort. Moreover, it ensures that the seats earmarked for SC/ST/physically challenged candidates are exclusively allotted to them. Unfilled seats in these categories, if any, can also be allotted to other eligible categories as per the existing rules, thereby ensuring social justice.

Since the admission process is conducted online, a student can verify the admission procedure at every stage and thus a great amount of transparency is achieved which would not have been possible otherwise. In the case of colleges, a great amount of time needs to be expended not only by the administrative staff but also by the teachers for conducting and completing the admission procedure as per the conventional system. Introduction of CAP relieved the administrative staff of their admission related burden and provided teachers with more time for their academic activities. Moreover without any media publicity the colleges get opportunity to present all their merit/reservation seats for allotment, thereby saving valuable money in media notification. Since the admitted students under CAP remit their fees due, to the university through bank, the administrative work in the colleges with regard to fee remittance to the university has been



considerably reduced. The admission to autonomous colleges is monitored by the university as per the special regulations made for autonomous colleges. The entire admission process to various programmes is monitored by an Admission Monitoring Committee comprising of Vice-Chancellor, Pro-Vice Chancellor, Syndicate Members and Registrar.

2.1.4 Does the University have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Yes. The Admission Monitoring Committee reviews the admission process and student profile annually. The review has helped to streamline the admission process and ensure that the exercise is transparent. This has helped the university to ensure timely admission, thereby attracting meritorious students.

2.1.5 What are the strategies adopted to increase/improve access for students belonging to the following categories:

- i. **SC/ST**
- ii. **OBC**
- iii. **Women**
- iv. **Persons with varied disabilities**
- v. **Economically weaker sections**
- vi. **Outstanding achievers in sports and other extracurricular activities**

i. SC/ST

In the admission process the University offers mandatory reservation of seats to special categories as shown below:

| Category | Reserved seats (%) |
|------------------|--------------------|
| Scheduled Castes | 15% |
| Scheduled Tribes | 7.5% |
| Total | 22.5% |

ii. OBC

| | |
|--------------------------|----|
| Ezhava/Thiyya/Billava | 8% |
| Muslim | 7% |
| Other Backward Hindu | 3% |
| SIUC/Latin Catholic | 1% |
| Other Backward Christian | 1% |



For the unfilled seats under the SC/ST category, renotification is done upto a maximum of three times to ensure filling up of vacant seats.

(iii) Women

The admission statistics for the last 5 years reveals that women constitute an average of 62% for PG and 65% for research programmes. The increase in women enrolment is a positive social indicator reflecting favourably on women empowerment in the State.

(iv) Persons with varied disabilities

In addition to 3% reservation in admission, the following facilities are provided to this category of students to increase their access to higher education.

- Visually-impaired students are allowed scribes and extra time for writing the examinations.
- The unfilled seats under the Persons with Disability (PD) category is converted to seats for children with special needs.
- The University Library has Braille Centre with DAISY Software to aid the learning requirements of visually challenged students.
- Ramps and wheel chairs are provided in the campus.
- The University has initiated steps to ensure barrier free transportation in the campus by procuring an eco-friendly battery operated vehicle with wheel chair access.
- Physiotherapy unit
- Audiology and speech therapy unit
- Remedial coaching for students with learning disabilities
- Psychological counselling services
- ABILITY - A funded project initiated by the School of Social Sciences to make buildings barrier free for persons with varied disabilities.

(v) Economically weaker sections

The University has reserved 10% seats for students who belong to Economically Backward among Forward Communities (EBFC). The 20% seats reserved for OBC- Socially and Economically Backward Community-SEBC) is also on the basis of their economic status. The EBFC and SEBC categories are extensively supported with scholarship schemes from various state and central government bodies. Documentation support for availing educational loans from banks is another major facet.



(vi) Outstanding achievers in sports and other extracurricular activities

Sports/NSS/NCC/Cultural Quota

- 2 seats in each programme (interchangeable) are reserved for candidates with outstanding records in sports and games.
- 1 seat for each degree programme (interchangeable) is reserved for students who excel in Youth Festival recognized by Director of Public Instruction.
- Bonus marks are provided to applicants with NCC/NSS certificates for admission to all programmes.
- The university has instituted sports scholarship for 150 meritorious sports persons annually to recognise the achievement of the sportsmen/women of the university. The university has also instituted sports merit cash award to the winners of All India Inter University Championships annually. The sports merit cash award was instituted by the School of Physical Education and Sports Sciences to encourage the university teams to perform well at Inter University Competitions.

2.1.6 Number of students admitted for PG programmes in University Schools in the last four academic years

| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
|---------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| General | 67 | 124 | 81 | 124 | 83 | 125 | 82 | 128 | 81 | 130 | 87 | 135 |
| OBC | 23 | 42 | 28 | 41 | 29 | 43 | 29 | 44 | 27 | 44 | 26 | 45 |
| SC | 18 | 32 | 21 | 32 | 22 | 32 | 22 | 28 | 25 | 26 | 23 | 36 |
| ST | 9 | 16 | 11 | 15 | 11 | 15 | 10 | 16 | 12 | 25 | 12 | 16 |
| Total | 117 | 214 | 141 | 212 | 145 | 215 | 143 | 216 | 145 | 225 | 148 | 232 |
| Total | 331 | | 353 | | 360 | | 359 | | 370 | | 380 | |



2.1.7 Has the university conducted any analysis of demand ratio for the various programmes of the university schools and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.

| Sl. No. | Departments | No. of Seats | Demand Ratio | | | |
|---------|--|--------------|--------------|-------|-------|-------|
| | | | 2013 | 2014 | 2015 | 2016 |
| 1 | School of Behavioural Sciences | 22 | 2.68 | 4.09 | 6.64 | 9.09 |
| 2 | School of Bio Sciences | 35 | 22.34 | 25.06 | 25.63 | 24.68 |
| 3 | School of Chemical Sciences | 42 | 17.07 | 22.05 | 24.93 | 33.03 |
| 4 | School of Computer Sciences | 25 | 6.92 | 16.00 | 10.12 | 8.28 |
| 5 | School of Environmental Sciences | 20 | 23.70 | 35.90 | 37.60 | 16.8 |
| 6 | School of Gandhian Thought and Development Studies | 24 | 1.71 | 2.42 | 1.63 | 1.41 |
| 7 | School of Indian Legal Thought | 20 | 1.25 | 1.15 | 0.65 | 1.30 |
| 8 | School of International Relations and Politics | 25 | 7.07 | 11.80 | 11.87 | 4.64 |
| 9 | School of Letters | 20 | 25.6 | 25.4 | 36.15 | 39.1 |
| 10 | School of Management and Business Studies | 60 | 6.65 | 7.82 | 2.00 | 2.01 |
| 11 | School of Pedagogical Sciences | 50 | 8.60 | 1.04 | 1.20 | 0.82 |
| 12 | School of Pure and Applied Physics | 20 | 40.10 | 49.70 | 50.90 | 50.95 |
| 13 | School of Social Sciences | 15 | 6.67 | 9.93 | 8.73 | 5.53 |
| 14 | School of Tourism Studies | 20 | 5.20 | 6.95 | 6.30 | 5.15 |
| 15 | Dr. K.N. Raj Center for Planning and Center-State Financial Relations | 12 | 13.58 | 17.50 | 15.08 | 11 |
| 16 | International and Inter-university Center for Nanoscience and Nanotechnology | 12 | 2.67 | 2.33 | 2.67 | - |



PG programmes (MA, M.Sc., M Tech, MBA, MTM)

Year-wise demand ratio in University Schools/Centres

| Year | No. of applications received | No. of students | Demand Ratio |
|---------|------------------------------|-----------------|--------------|
| 2010-11 | 4194 | 380 | 11:1 |
| 2011-12 | 4346 | 380 | 11:1 |
| 2012-13 | 4565 | 380 | 12:1 |
| 2013-14 | 5448 | 380 | 14:1 |
| 2014-15 | 5194 | 380 | 14:1 |
| 2015-16 | 5218 | 380 | 14:1 |

Year-wise applicants for M.Phil, M.Tech and Ph.D Programmes

| Year | M. Phil | | | M. Tech. | | | Ph. D | | |
|---------|---------|----------|--------------|----------|----------|--------------|---------|----------|--------------|
| | Applied | Admitted | Demand ratio | Applied | Admitted | Demand ratio | Applied | Admitted | Demand ratio |
| 2010-11 | 585 | 145 | 4.03 | - | - | - | 330 | 26 | 12.69 |
| 2011-12 | 456 | 143 | 3.18 | - | - | - | 406 | 35 | 11.60 |
| 2012-13 | 523 | 140 | 3.74 | 153 | 28 | 5.5 | 553 | 25 | 22.12 |
| 2013-14 | 542 | 144 | 3.76 | 158 | 28 | 5.6 | 590 | 35 | 16.86 |
| 2014-15 | 565 | 145 | 3.90 | 27 | 17 | 1.6 | 446 | 40 | 11.15 |
| 2015-16 | 583 | 144 | 4.05 | 21 | 15 | 1.4 | 464 | 33 | 14.06 |

Demand ratio for affiliated colleges*

| Year | PG | | Demand ratio | UG | | Demand ratio |
|------|-------------------|--------------|--------------|-------------------|--------------|--------------|
| | No. of applicants | No. of seats | | No. of applicants | No. of seats | |
| 2013 | 161273 | 8094 | 20:1 | 575769 | 38638 | 15:1 |
| 2014 | 183028 | 7654 | 24:1 | NA | 40122 | 19:1 |
| 2015 | 124578 | 6042 | 21:1 | 762263 | 42699 | 19:1 |
| 2016 | 109882 | 5805 | 19:1 | 809745 | 32425 | 25:1 |

**Based on online CAP based allotment*



Demand for conventional UG programmes increased due to the decreased demand for engineering courses.

2.1.8 Were any programmes discontinued/staggered by the university in the last four years? If yes, please specify the reasons.

Yes.

- i) Integrated M.Sc-Ph.D Programme in Chemistry and Nanoscience have been discontinued due to scarcity of research supervisors at the Ph.D level.
- ii) M.PEd. was discontinued from 2011-15 due to lack of permanent faculty.
- iii) M.Sc Nursing due to decision taken by the regulatory body.

2.2 Catering to Student Diversity.

2.2.1 Does the university organize orientation/induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes. During the first week of the starting of a course, Schools organize orientation programmes for freshers which usually last for 1-3 days. The induction programme familiarizes the students with the following:

- The vision and mission of the institution
- Syllabus, Schemes & CSS system
- Timings, discipline
- Anti-ragging awareness
- Criteria for internal assessment
- Facilities available in the campus
- Co-curricular activities available
- Clubs, forums and other such activities
- Goal setting
- Attitude building
- Career planning
- Time management
- Life skills
- Research scope in the field and further studies option

Special sessions are carried out for International students regarding Visa



issues, police verification, C-form filing and on local cultural practices.

At the end of the orientation programmes, feedbacks are collected from students. These feedbacks are analysed and their views and opinions are considered for the revision of syllabus and introducing new programmes.

A student profile is prepared by the faculty advisors after the orientation programmes. It helps to make an analytical study about their curricular and extracurricular strength, weakness and socio economic background. Also, this is used as a valid document for student progression analysis.

2.2.2 Does the University have a mechanism through which the differential requirements of the student population are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

Yes. Detailed information is provided to students about the courses and the list of specializations provided by each school through the university website. However, their specific doubts are cleared during the counselling session. Based on the counselling, the School admission committee undertakes a study and it helps to identify slow and advanced learners. This helps the faculty to plan their tutorial methods and schedule, to bring out better performance. The faculty advisors offer bridge/remedial programmes to the needy. The services of the newly established Training and Placement Cell are also utilized for this purpose.

2.2.3 Does the University offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, School-wise/faculty-wise?

Yes. Based on the feedback and performance in the examinations, faculty members identify the additional course requirement for slow learners and fast learners. Bridge/remedial and add-on courses are offered to slow and fast learners. These programmes are generally conducted outside the office hours or on holidays. The university has utilized the funding from UGC for the conduct of remedial courses for SC/ST and minority students.

Bridge Course

Organic Chemistry (IIUCNN)

Remedial Programmes

- i. Research Methodology (all Schools and Centers)
- ii. Quantitative Methods for Management (SMBS)
- iii. Operations Research (SMBS)
- iv. Derivatives (SMBS)
- v. Operations Management (SMBS)



- vi. Financial Accounting (SMBS)
- vii. Organic Chemistry (IIUCNN)
- viii. Java Programming (SCS)
- ix. French Language (STS)

Add on programmes

- i. Business Data Analytics (SMBS)
- ii. Financial Data Analytics using EXCEL and Tally (SMBS)
- iii. Research Analysis using SPSS (SMBS)
- iv. Soft Skill Development (all Schools and Centers)
- v. NET Coaching offered by University Employment, Information & Guidance Bureau
- vi. Indian Sign Language (SBS)
- vii. Basic Concepts of Statistical Inference (SBS)
- viii. Evening Course on Learning Disabilities (SBS)
- ix. Short-term Add-on courses on different softwares and scientific and computational tools as part of the Spoken Tutorial Project(an initiative of NMEICT, MHRD, Govt. of India) (SCS)
- x. C & C++ Programming (SCS)
- xi. Java Programming (SCS)
- xii. Latex and SciLab (SCS)
- xiii. Mathematica & MATLAB (SCS)
- xiv. MOOC Programmes in Schools/Centres (IIUCNN,SES)

2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

Yes. The Departmental Faculty Council analyses the academic progress of students from socially and economically disadvantaged sections of the society, and students with disability and makes appropriate recommendations. Slow learners are identified by the faculty advisors from the student profile which helps to make an analytical study about their curricular strength and weakness. Remedial teaching is arranged accordingly.

The School of Tourism Studies has conducted an Access Audit in the university campus using the comprehensive 'Accessibility Audit Checklist' prepared in line with the guidelines issued by the Ministry of Social Justice and Empowerment (MOSJE) to identify the state of accessibility and barrier



free environment and premises for persons with disability and elderly persons. On the basis of this comprehensive study, the state of barrier free transport and barrier free built environment were analysed and corrective measures were taken. Accordingly, the university has initiated steps to procure an eco-friendly battery operated vehicle with wheel chair access along with preferential parking facilities to ensure barrier free transportation in the campus.

School of Social Sciences conducted a study to make university infrastructure disabled-friendly through a project titled ABILITY. Ramps and other facilities are provided in the Schools and hostels. For the visually impaired, care is taken to arrange examinations in separate class rooms and scribes are permitted for writing their examinations.

As per U.O No. 4308/P&D -1/3/2016/Admn dated 01/08/2016, the University has issued an order formulating a comprehensive policy for addressing disability issues. The main components of the order are as follows:

- To engage the service of a barrier free design expert and architect to audit the disabled-friendliness of all physical segments of the university.
- To ensure disabled-friendly features like ramp (of a gradient not greater than 18-20 degrees), lifts (wide enough for wheel chair, and with Braille control switch panel and audition), special assistive fixtures and fitting (like handrails and grab bars alongside the side walk of steps and staircases), and disabled - friendly washrooms in all future construction projects.
- To allow a grace period of three months for M.Phil and six months for Ph.D. students who are physically challenged in the submission of dissertations.
- To ensure at least one terminal in the computer workstation (of all departments, centres) with special assistive technologies, preferably open source, for physically challenged students.
- To ensure the websites of Mahatma Gandhi University and its statutory teaching departments and the affiliating colleges incorporate features friendly to the visually challenged (including colour contrast, variable font size and audition).
- To create a special fund to handle all income and expenditure relating to addressing disability issues of Mahatma Gandhi University including constituent colleges. Besides central and state funding and UGC special assistance, funds are also received from MP/MLA development plan assistance for constituencies, and rules permitting, from the private sector companies (who may fulfil it as part of corporate social responsibility).



- To highlight the aspect of disabled-friendliness in all notifications for admission and appointment released by the university with the statement "MGU is proactive to the needs of the physically challenged" is inserted.

School of Behavioral Sciences conducts training programmes regularly for students with learning disabilities and also for their parents as well as teachers. School of Behavioural Sciences has conducted several studies during the period on education, training, rehabilitation, quality of life and other aspects of life of the marginalized and disadvantaged sections of the society including differently abled. Some studies conducted are shown below:

- a. Achievement motivation and self esteem of PG students of M. G. University (2013).
- b. Gender difference and cognitive function among PG students (2013).
- c. Learning problems among high school students with mathematical difficulties and the efficacy of remedial teaching module in mathematics (2013).
- d. Awareness and attitude of Tribals of Attappadi towards mental retardation (2013).
- e. Role of family in the education of tribal students (2013).
- f. Personality of young adult women staying in slums (2014).
- g. Personality profile in relation to optimistic and pessimistic life orientation among M G U students (2016).

Most of the students admitted to various programmes are from socially and economically disadvantaged sections. University strictly adheres to reservation policies of the government and facilitates various scholarships offered by central and state government agencies. University has instituted research scholarships for those research scholars who are in receipt of no other scholarships. In the statutory schools, university is charging only a nominal fee for the masters and Ph.D. programmes. The academic ambience and the student support mechanism for the disadvantaged sections have helped students to successfully complete the programmes. Most of the students go for higher studies such as M.Phil./M.Tech./Ph.D. in India or abroad.

University is promoting INSPIRE and KSCSTE fellowships for research. Special attention is given to students coming from rural areas to improve their communication skills. Compulsory library hours are included in most of the schools to improve the reading habit and cultivate an aptitude for research among students.

2.2.5 How does the university identify and respond to the learning needs of advanced learners?

- The Departmental Council identifies the advanced learners based on student profile prepared at the beginning of the programme.



- The Credit Semester System (CSS) followed in the Schools gives the advanced students an opportunity to choose appropriate elective courses which can satisfy their intellectual needs.
- The Schools offer students a wide range of specializations to choose from according to their aptitude.
- The university has facilitated starting of add-on courses in its colleges with UGC support. The office of the Director, College Development Council has an active role in starting such skill oriented programmes.
- The campus wide network with optical fibre cable gives free internet access and amply structured Wi-Fi connectivity. Advanced learners can use this facility to meet their special academic requirements.
- The university library and school libraries have several advanced books, CD ROMs and journals which satisfy the needs of advanced learners.
- The university extends the facilities for special coaching to attend UGC/CSIR/GATE and other competitive examinations.
- The Erudite Lecture series involving 60 scholars of international repute including 7 Nobel laureates and the Scholar-in-residence programmes organized in the University provided opportunity to advanced learners to interact with the scholars across the globe.
- Students are encouraged to participate in subject oriented competitions including technical fest and present research papers in seminars, workshops organized at national and international levels. Publications in high impact journals are also encouraged.
- The schools motivate the students to apply for various scholarship programmes like INSPIRE, ASPIRE, PURSE, UGC-BSR, Rajiv Gandhi National Fellowship, Moulana Azad Fellowship, Kothari Fellowship, Commonwealth Fellowship etc.
- University has introduced grace mark and attendance relaxation for those who have engaged in start-up projects in approved incubators.
- University has started a Business Innovation and Incubation Center (BIIC) which encourages the advanced learners to nurture their entrepreneurial qualities.
- The inclusive ambience of the university gives advanced learners the opportunity to interact with international students and thereby widen their exposure through a multicultural experience.
- Challenging topics are given for individual and group assignments.
- The students from various Schools/Centres have opportunity to undertake project work in different parts of the country/abroad.



- They are encouraged to involve in the activities of NGOs, publishing firms, training groups, resource outsourcing groups etc.

2.3. Teaching-Learning Process

2.3.1 How does the university plan and organise the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

The Credit and Semester System (CSS) of Mahatma Gandhi University aims at flexibility in curriculum development, objectivity and critical approach in examination patterns, use of continuous evaluation for assessment in all educational programmes in the university campus. The CSS is also meant to provide meaningful common criteria as per the national pattern to transfer credits when students move from one institution to another within or outside the country.

CSS seeks to ensure a uniform pattern of course design, course teaching, evaluation system, academic calendar and examination time-table for all MA., M Sc., MEd., LLM, MTM, MBA., MPed, M Tech, integrated BSc-MSc, M Phil., integrated M Sc-Ph.D and course-work of the conventional PhD programmes. CSS also ensures that all its autonomous Schools/Centre/Institutes enjoy academic flexibility in the conduct of diverse academic programmes.

The university has a common academic calendar to plan the processes of teaching-learning of theory, practical, and project/dissertation work as per guidelines of UGC. Each school makes amendments to the common academic calendar in accordance with its specific requirements. The academic calendar reflects all academic activities including the conduct of examinations, schedule for project works, field visits, industry visits, educational tour and co-curricular activities. The academic calendar ensures the completion of the semester in the stipulated time frame of ninety working days.

Before the commencement of the semester, the Faculty Council of the department concerned decides the courses that would be offered during a particular semester. This enables the teacher to prepare the teaching plan much ahead of the beginning of each semester. The faculty members prepare the course outlines, reading materials, schedules for each course, theory and practicals. The University follows the stipulations of UGC on teaching hours/credits. Field/industry visits and other related activities are also scheduled in addition to the conduct of internal and external examinations.

The final result in each course other than Ph.D is determined on the basis of continuous assessment and the performance in the end semester examination, which is in the ratio of 50:50 for both theory and practical courses. The scheme of internal evaluation for each of the courses includes seminars, assignments and internal tests in the ratio of 25:25:50. For practicals, the components are seminars, lab skill, records and viva-voce. Evaluation of the post graduate courses for odd semester examinations is done by the faculty



members themselves while double evaluation is followed for even semester examinations by internal and external evaluators.

The IQAC of the university initiate, plan and supervise various activities that are required to increase the quality of the education imparted in the institution. The role of IQAC in maintaining quality standards in teaching, learning and evaluation is crucial and many of its recommendations in this direction have been implemented by the university.

2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

Yes. The syllabi of UG and PG programmes of colleges are provided in the university website. Students can select their electives according to their choice. Course outlines with schedules and time table are provided to students at the commencement of the academic session. Based on the feedback obtained from faculty, students and other stakeholders, the review of the course outline and schedule is done by the Faculty Council and appropriate measures are taken.

2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

No. Usually the contents of the syllabi for various courses are completed within the stipulated time. However in certain unavoidable circumstances due to unexpected holidays, or during natural calamities which are beyond the control of the university, the actual teaching days may be lost causing delays. Nevertheless, the teachers engage in additional classes to complete the course on time.

2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

The University constantly takes efforts to make its learning student-centric. Despite differences in teaching methodology adopted by various schools/centres, depending on the nature of the programmes offered, the teaching learning process in every academic programme is student-centric. The approaches adopted at the university to make learning student-centric include:

- Formal/informal interaction between the faculty and the students
- Assignments/ seminars/ debates/ brainstorming sessions
- Case study, field trips, group projects



- Tutorials
- Flipped class room
- Online interactive learning
- Interaction of students with external experts/visiting faculty
- Freedom to select courses/electives within their programmes

2.3.5 What is the university's policy on inviting experts/people of eminence to deliver lectures and/or organize seminars for students?

The University strongly believes that the conduct of special lectures, seminars, workshops, invited talks and symposia by involving the external experts help faculty and students to enhance their capacities. Irrespective of the Schools/Centres to which they are affiliated, the students can attend these programmes conducted in the University. This facilitates exchange of ideas and provides exposure to teaching and research in other institutions of eminence.

Some of the major programmes include,

- Erudite programme: Under the programme, sixty eminent academics, including seven Nobel Laureates delivered lectures.
- Diplomatic Lecture Series is organized in association with the Ministry of External Affairs, Govt. of India.
- Industry-Institute interaction is held many a time involving alumni.
- A Scholar-in-Residence Programme funded by the state Government, in which eminent scholars stay on the campus and interact with students.
- Memorial lectures are held to commemorate the contributions of distinguished faculty who have served in different Schools.
- Schools regularly invite prominent scholars from both the academic institutions and industries of repute for delivering lectures. The lists of activities organized by each School are given in the respective School profile.
- Schools/Centres regularly conduct national and international conferences and workshops in which leading experts are invited to deliver lectures. They also interact with the faculty members and students leading to active collaboration and networking.

2.3.6 Does the university formally encourage blended learning by using e-learning resources?

Yes. The University encourages blended teaching and learning through effective use of e-learning with conventional learning resources. Major initiatives taken in this direction are:

- ICT enabled teaching-learning with free internet access has been made



available for students and teachers.

- Open educational resources and study materials are provided through e-mails, Google groups and Whatsapp.
- The University organizes orientation programmes and hands-on training to familiarize teachers and students with modern gadgets software etc.
- Digital online teaching-learning interactive platform-Edmodo introduced in the School of Tourism Studies, facilitates online discussions, assignments and tests. Similarly, other multi-modal, multimedia e-learning platforms are also used in various Schools.
- MOOC programmes are offered by International and Inter-university Centre for Nanoscience and Nanotechnology and the School of Environmental Sciences.
- Students are encouraged to participate in Webinars organized by leading international organizations. They are advised to make use of e-learning resources, particularly by NPTEL, Coursera and other leading universities.
- School of Behavioural Sciences utilizes software in Rorschach Interpretative Assistance programme and Statistical Package for Social Sciences for developing skills among students.

2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?

At Mahatma Gandhi University, the teaching-learning process is carried out with the maximum use of the technologies for improving the quality of teaching. The facilities like virtual laboratories, e-learning, open educational resources and mobile education are used for the benefit of students.

- Official email id is allotted to all staff members. Faculty members are trained in open source learning through awareness programmes.
- The teachers exchange learning materials through e-mails, Google groups, online teaching-learning platforms and Whatsapp.
- Students are also taught to use the best scientific software and databases available on the web.
- Free MOOC program in collaboration with IIRS, ISRO, Hyderabad is given to the students in School of Environmental Sciences.
- Modelling and simulation packages are used by many faculty members to make reasonable predictions.
- World class travel simulation softwares are utilized in the School of



Tourism Studies.

- The access of e-journals through KOHA, J-gate Plus, Sciencedirect, UGC-INFONET and SciFinder are available to faculty and students.
- Faculty utilizes all available e-Learning resources from various international Universities for effective teaching .
- Online submission of assignments and online monitoring system is adopted by some of the faculty members. On line tests are another important mode of evaluation of the students.
- DAISY, the Software for the visually impaired is available in the University Library for improving the learning capabilities of blind students.

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?

Yes. The free software based e-gateway provided by the University Library gives access to various important journals. This facility is extensively used by the faculty and students to update their knowledge. Faculty members and staff of each school and library, provide regular update and communication regarding promotion of Open Access resources (including journals, databases etc.) for the benefit of students. Orientation/training programmes on open source software are organized for faculty and students. The schools, University Library, Centre for High Performance Computing and University Web Centre also provide internet and Wi-Fi for e-learning. Software for checking plagiarism is available in the University Library which is utilized during preparation of M.Phil/Ph.D theses and papers for publication in journals.

2.3.9 What steps has the university taken to convert traditional classrooms into 24x7 learning places?

- Wi-Fi facilities in the schools, Computer Centre, Web Centre, library and hostels, provide students access to open and subscribed e-learning resources at any time of the day.
- Students are given online assignment/tests/discussions/seminars/surveys/projects, so that they can work during off hours also.
- Digital online teaching-learning interactive platform - Edmodo in the School of Tourism Studies facilitates online discussions, assignments and tests anytime from anywhere.
- The laboratory and computer facilities are accessible to all students beyond the office hours and holidays.



- Students are encouraged to participate in webinars using video and web conferencing facility.
- Flipped class room concept is introduced effectively.

2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.

Yes. Faculty members act as mentors/advisors for the students. As per CSS regulations, there is a Faculty Advisor to each batch of students. The students can approach them any time for academic, personal and psycho-social advice. Counselling facility is offered by the faculty at the School level to the students during different stages of the course to enlighten the students about career progression and placements. If counselling is necessary, services of the Clinical Psychologist in the School of Behavioural Sciences are arranged. The number of such cases is less than 5%.

2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

The university has been promoting innovations in teaching in an effective way. Different Schools have adopted strategies to enable a better learning atmosphere.

The University also gives prominence to ICT enabled teaching and encourages students and teachers alike to make extensive use of online resources available for effective teaching.

Some of the innovative practices adopted by various schools are as follows:

- In School of Social Sciences, archeology being a major component of the masters and research programmes, an archeological museum has been set up which gives the opportunity for the students to participate in the process of excavation, exploration and the sorting of the remnants and in the process of preservation.
- School of Behavioural Sciences has ventured outside the classroom where students under the guidance of teachers specialize in dealing with the problems of differently abled children and their rehabilitation.
- Certificate and Diploma course in Organic Farming offered by the Department of Life Long Learning and Extension gives its students the practical knowledge of organic farming through field works using virgin soil seen naturally only in forests. This is indigenously prepared in the

practical classes using innovative technology.

- Demonstrative cum interactive method of teaching is employed in School of Environmental Sciences with operating models like rain water harvesting system, 'Self-Contained PV-Powered Domestic Toilet and Wastewater Treatment System' from California Institute of Technology, USA and bio-gas plant for waste management which provides students the first hand knowledge about the working of these models. Dr. R. Satheesh Centre for Remote Sensing and GIS of this school offers programmes using ICT tools which include Edusat based online outreach courses on geospatial tools and applications in collaboration with Indian Institute of Remote Sensing (IIRS), Dehradun mainly through the Amrita Virtual Interactive e-learning World (A-View) internet online platform.
- The flipped classroom is an important teaching method where the students prepare their notes before hand and come prepared to the class. They give lectures as the faculty member, seated along with the other students, listens and serves as a mentor and offers concluding remarks. This is being practiced in School of Chemical Sciences, IIUCNN and SIRP.
- To meet the global industry's requirements, School of Tourism Studies has incorporated the use of travel simulation software, and online interactive platforms like Orell and Edmodo to enrich the quality of teaching and learning.
- School of Pure and Applied Physics has developed an innovative method for simulating biomolecular activities using computer aided techniques for protein drug interaction.
- Project Simulation Method or Problem based Learning is an innovative teaching strategy introduced at the Inter University Centre for Disability Studies aimed at producing professionals who can solve problems using their imagination and critical analytical skills by pairing it with the most advanced theories on pedagogical practices.
- The School of International Relations offered platform for collaborative seminar in public policy and governance as well as various outreach programmes for Human Rights.
- K.N Raj Centre provided facilities for learning programmes to strengthen studies in areas like planning, budget and fiscal management.
- In addition to the above innovative methods, other features like inter-School open courses, brainstorming sessions, focused group discussions/seminars, tutorials, case study analysis, journal club, panel discussions, webinars and video conferencing facilities for real time interaction with experts/scientists are made use of.



Improvement in learning

The practices mentioned above enabled the students to develop knowledge, skill and aptitude. Technology based learning also helped students to acquire required skills.

The methods used to evaluate the impact of such practices

The performance of the students in seminars, group discussions, summer schools, outreach programmes, field study/project works and national level tests are considered as yardsticks to evaluate the impact. The impact of the innovative teaching-learning approaches is assessed through examination outcomes, placements etc. Positive feedback from the stakeholders is another indicator of the improvement in learning and performance.

Recognition for innovation in teaching

Some of the teachers got awards and recognitions in professional bodies, for outstanding performance and contribution in teaching and research. Considering the outstanding overall performance, the university has initiated steps to recognize those outstanding academics by awarding and publically recognizing them through issuance of Certificate of Merit.

2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?

The university has made several attempts at instilling creativity and scientific temper among the learners.

Post Graduate Level

- Peer-to-peer interaction
- Participating in management and technology meets
- Involvement of students in individual/ group research projects
- Special lectures and motivational talks by eminent speakers
- Involvement of the students in co-curricular, extracurricular and extension activities
- Guidance and counselling to the students
- Individual and group assignments
- Flipped Classroom
- Field visits and study tours
- Participation/ organizing of seminars and conferences.
- Summer schools and outreach programmes.

Ph.D Level

- Peer-to-peer interaction



- Weekly group meetings by Ph.D advisors
- Research Forum
- Journal Club
- Research article based teaching
- Encouraging young learners to present their findings in conferences
- Publish their findings in journals
- Promoting patenting
- Business Innovation and Incubation Centre (BIIC)

2.3.13 Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?

Yes. The University considers the project work mandatory in all the P.G, M.Phil., and M.Tech. programmes. As per the scheme, project work and viva-voce, along with project presentation are mandatory for all the students pursuing P.G., M. Phil., and M.Tech. programmes in various Schools/Centres of the University. Accordingly some of the brilliant master and M Phil students come out with a high impact publication during their project phase.

- **Number of projects executed within the University:**

Approximately 1600 student projects were undertaken during the assessment period.

- **Name of external institutions associated with the university for student project work:**

- Centre for Development of Advanced Computing (CDAC), Trivandrum
- Keltron, Trivandrum
- Centre for Development of Imaging Technology (CDIT), Trivandrum
- Centre for Artificial Intelligence and Robotics(CAIR), Bangalore
- Indian Space Research Organization, Trivandrum
- Polus S/W Pvt. Ltd. Technopark, Trivandrum
- Suntech Solutions, Technopark, Trivandrum
- Hages Business Solutions, Technopark, Trivandrum
- School of Computational Biology, University of Kerala, Trivandrum
- School of Computer Science, University of Kerala, Trivandrum
- Cochin University of Science and Technology, Kochi
- NEST Cyber Campus, Trivandrum



- Indian Institute of Science (IISc.), Bangalore
- Indian Institute of Science Education and Research (IISER), Trivandrum
- National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum
- Rubber Research Institute of India (RRI), Kottayam
- National Chemical Laboratory (NCL), Pune
- Indian Institute of Technology (IIT), Kanpur
- Indian Institute of Chemical Technology (IICT), Hyderabad
- Central University, Hyderabad
- Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore
- Sree Chithra Thirunal Institute for Science & Technology (SCTIMST), Trivandrum
- Bhabha Atomic Research Centre (BARC), Mumbai
- Tata Institute of Fundamental Research (TIFR), Mumbai
- National Centre for Antarctic and Ocean Research (NCAOR), Goa
- National Institute of Oceanography (NIO), Mumbai
- Salim Ali Centre for Ornithology and Natural History (SACON), Coimbatore
- Centre for Water Resources Development and Management (CWRDM), Calicut
- Tropical Botanical Garden Research Institute (TBGRI), Trivandrum
- National Disaster Management Authority (NDMA), New Delhi
- National Centre for Earth Science Studies (NCESS), Trivandrum
- Centre for Molecular Biology (CCMB), Hyderabad
- Rajiv Gandhi Centre for Biotechnology (RGCBT), Trivandrum
- Indian Council of Agricultural Research (ICAR), New Delhi
- Regional Cancer Centre (RCC), Trivandrum
- Cashew Export Promotion Council, Kollam
- Raman Research Institute (RRI), Bangalore
- Institute for Plasma Research (IPR), Gujarat
- Saha Institute of Nuclear Physics (SINP), Kolkata



- Indian Institute of Geomagnetism (IIGM), Mumbai
- Universiti Teknologi Mara, Malaysia
- Changwon National University, Korea
- Siberian Federal University, Russia
- Walter Sisulu University, South Africa
- Alamaty Institute of Power Engineering and Telecommunications, Kazakhstan
- Deakin University, Australia
- SABIC Innovative Plastics, USA
- University of Pretoria, South Africa
- Universite De Rouen, France
- University of Lorraine, France
- University of Lyon, France
- Kansas State University, Manhattan, Kansas, USA
- Vellore Institute of Technology, Vellore, Tamil Nadu
- Goodyear Tyre and Rubber Company, Ohio, USA
- King Mongkut's University of Technology, North Bangkok, Thailand
- University of Antioquia, Colombia
- MIREA, Moscow Technical University, Moscow, Russia
- Physikalische Chemie und Physik der Polymere, Leibniz-Institut für Polymerforschung Dresden, Germany
- Qilu University of Technology, China
- National Taiwan Ocean University, Taiwan
- University of Aveiro 3810-193, Portugal
- MIREA ,Moscow Technical University, Moscow, Russia
- Center for Blood Research and Department of Pathology & Laboratory Medicine, University of British Columbia, Vancouver BC, Canada
- Centre for Development Studies, Thiruvananthapuram.
- Jawharlal Nehru University, New Delhi.
- Kerala Institute of Local Administration (KILA), Thrissur.
- Kerala State Planning Board, Thiruvananthapuram.
- Gulati Institute of Finance and Taxation (GIFT), Thiruvananthapuram.



- Institute for Sustainable Development and Governance (ISDG), Thiruvananthapuram.
- Jinan National University, China.

Role of faculty in facilitating such projects: Faculty members guide students in identifying and formulating the project proposal and linking them with reputed institutions. They constantly monitor the progress of the project work. Students usually undertake projects with research, industrial, social, economic, commercial, literary and educational organizations. Each student is supervised/guided by a faculty member having expertise in the area of study. In some of the interdisciplinary research programmes, the student is supervised by a faculty from the university and an expert from the host institution and this very often leads to a joint publication between the university and the partnering institution.

2.3.14 Does the university have a well qualified pool of human resources to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?

Yes. The University has well-qualified and distinguished pool of faculty members in different disciplines. There is a disparity between the number of teaching posts sanctioned and those which are filled. The University addresses this manpower issue by availing the services of Emeritus/Visiting Professors, Adjunct Faculties, Guest Lecturers and Contract Lecturers. At present twelve Emeritus/Visiting Professors are serving the University.

2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?

- All teachers are provided with personal computers with unlimited internet connectivity.
- Schools/Centres are equipped with smart classrooms.
- Modern multimedia teaching aids like LCD projectors, smart boards etc are available.
- Virtual programmes, teaching-learning software, and video conferencing facilities are also available.
- The university encourages blended learning by using online teaching learning platforms and e-learning resources.
- Orientation programmes and hands-on training for familiarizing faculty members with the use of various software for teaching-learning are conducted regularly.



2.3.16 Does the university have a mechanism for the evaluation of teachers by the students/alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

Yes. The university uses the feedback obtained from students and alumni in the prescribed format to evaluate the teachers. The feedback received from different groups of students and alumni are compiled by the Head of the concerned School/Centre and will be discussed in the Faculty Council for appropriate action. The feedback helps respective teachers to know and improve teaching methods and to develop the course content in succeeding years. Discussion with individual teacher is done by the Head of the Department for taking remedial measures.

2.4. TEACHER QUALITY

2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?

The University focuses on quality improvement by encouraging and enabling faculty to:

- Attend refresher, and orientation courses organized by the UGC-Academic Staff Colleges and other reputed institutes.
- Acquire higher qualifications like Ph.D, and Post-Doctoral research under Faculty Development Programmes (FDP) and to avail international fellowships.
- Avail visiting fellowship in reputed institutions and foreign universities.
- Attend academic and training programs in their respective discipline, as well as to organize national/ international workshops/ seminars/ conferences etc.
- Pursue inter-disciplinary approach in research and academic program designing.
- Undertake consultancy with industry/organizations which helps in better curriculum designing and to initiate research programs for students.
- Carry out quality research and publish papers in reputed journals and filing of patents.
- Avail research grants from national and international agencies.
- Supervise the students - research work at PG, doctoral and post-doctoral levels.
- Develop collaborative research programs with reputed national/ international institutions and organizations.
- The university is also able to attract post-doctoral fellows from different



parts of the country to take up the challenging task of research and in some cases teaching assignment in different schools and centres.

- Ph.D students also take part in supporting master level laboratory exercises and projects for the students which is mutually beneficial.

2.4.2 Furnish details of the faculty

| Highest Qualification | Professors | | Associate Professors | | Assistant Professors | | Total |
|------------------------------------|------------|---|----------------------|---|----------------------|----|-------|
| | M | F | M | F | M | F | |
| Permanent Teachers | | | | | | | |
| D.Sc./D.Litt. | 1 | - | - | - | - | - | 1 |
| Ph.D. | 17 | 4 | 16 | 5 | 27 | 8 | 77 |
| M.Phil. | - | - | 1 | 2 | 2 | 3 | 8 |
| P.G. | - | - | - | - | 2 | 3 | 5 |
| Temporary Teachers (Guest Faculty) | | | | | | | |
| Ph.D. | - | - | - | - | 8 | 5 | 13 |
| M.Phil. | - | - | - | - | 8 | 4 | 12 |
| P.G. | - | - | - | - | 10 | 16 | 26 |

2.4.3 Does the university encourage diversity in its faculty recruitment? Provide the following details (school/school-wise).

Yes. The university follows the regulations of UGC and the state government policies in recruiting faculty to various Schools. Following is the breakup of recruitment for regular faculties:

| School/ School | Faculty from the same university (%) | Faculty from other universities within the state (%) | Faculty from universities outside the state (%) | Faculty from other countries (%) |
|--|--------------------------------------|--|---|----------------------------------|
| School of Behavioural Sciences | 17 | 66 | 17 | 0 |
| School of Biosciences | 27 | 64 | 0 | 9 |
| School of Chemical Sciences | 10 | 60 | 20 | 10 |
| School of Computer Sciences | 0 | 50 | 50 | 0 |
| School of Environmental Sciences | 50 | 0 | 50 | 0 |
| School of Gandhian Thought and Development Studies | 25 | 50 | 25 | 0 |

| | | | | |
|--|----|-----|----|---|
| School of Indian Legal Thought | 17 | 83 | 0 | 0 |
| School of International Relations and Politics | 0 | 60 | 40 | 0 |
| School of Letters | 42 | 29 | 29 | 0 |
| Department of Life Long Learning & Extension | 0 | 100 | 0 | 0 |
| School of Management and Business Studies | 12 | 64 | 24 | 0 |
| School of Pedagogical Sciences | 0 | 89 | 11 | 0 |
| School of Physical Education and Sports Sciences | 0 | 75 | 25 | 0 |
| School of Pure and Applied Physics | 43 | 28 | 29 | 0 |
| School of Social Sciences | 0 | 50 | 50 | 0 |
| School of Tourism Studies | 40 | 20 | 40 | 0 |

2.4.4 How does the university ensure those qualified faculties are appointed for new programmes/emerging areas of study (Biotechnology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?

In the event of recruitment for new programmes, advertisements are given in widely circulated dailies and in the university website. Applications are thoroughly scrutinized and open selections are made purely on merit-cum-reservation basis. In the last four years, three permanent faculty members were appointed. If the University has constraints in filling up the post, then qualified and experienced persons are appointed as guest faculty. 56 guest faculty members have been appointed in various schools since 2010. It is to be noted that Mahatma Gandhi University is the only university in the state of Kerala which has been awarded the DBT BUILDER Programme by Department of Biotechnology, Government of India, in which 3 Assistant Professors have been appointed.

Most of the faculty members in the university have strong motivation, self learning initiatives and national/international collaborations and experience



which lead to the development of competence to teach and initiate research in new areas like Nanotechnology, Material science, Forensic computing etc.

2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?

At present there are four Emeritus Professors and six Visiting Professors serving the University.

2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers? (eg. providing research grants, study leave, nomination to national/international/conferences/seminars, in-service training, organizing national/international conferences etc.)?

The policies/systems of the Mahatma Gandhi University for the academic recharge and rejuvenation of teachers are:

- Faculty Development Programme for University/College teachers.
- Deputing teachers to attend FDP and Staff Development Programmes (SDP) organized by different Universities with the help of UGC funding.
- Granting study leave and sabbatical leave to the faculty for higher studies/ research.
- Providing financial assistance to faculty to participate in national and international seminars and conferences to acquire latest developments in their area of research.
- Special casual leave (10 days/year), and duty leave (30days/year) to teachers for attending conferences/seminars and other academic activities in other universities.
- Encouraging and funding university schools to organize national and international conferences/seminars and workshops.
- Allowing University Schools to procure state of the art equipment for the establishment of new laboratories.
- Providing doctoral and post-doctoral scholarships for promotion of higher education and high quality research.
- Funding for procuring latest references/textbooks, journals and other e-resources for University library and School libraries.
- University has organized several training programmes and workshops for patent awareness.
- International, Inter-University and Inter School Centres augment the university in its effort to become potential Centres of Excellence in their areas of specialization.
- DST funded Inter University Instrumentation Centre provides faculties and students accessibility to sophisticated scientific devices.



- Academia Convergence Complex has been set up by the university to strengthen interdisciplinary and multidisciplinary research programmes by sharing human resources, sophisticated scientific devices and laboratories of all the Inter-University and Inter-School Centres.

2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?

| 2011 |
|---|
| <ul style="list-style-type: none"> • Carl Trygger Post-doctoral Research Fellowship (2011): Uppsala University, Sweden (Dr. S. Anas, School of Chemical Sciences) |
| 2012 |
| <ul style="list-style-type: none"> • Fellow of the Royal Society of London, FRSC, 2012 (Prof. Sabu Thomas, School of Chemical Sciences) • Research Award from UGC for a research on the Cultural implications of the transformations of boat races in Kuttanad, Kerala (Dr. Aju K.N., School of Letters) |
| 2013 |
| <ul style="list-style-type: none"> • Bronze Medal of Chemical Research Society of India, 2013 (Prof. Sabu Thomas, School of Chemical Sciences) • Materials Research Society of India Award (2013). (Prof. Sabu Thomas, School of Chemical Sciences) • Professorship at IIT, Madras (Dr. M. S. John, School of Gandhian Thought and Development Studies) • Best Teacher Educator Award of Council of Teacher Educators (CTE, 2013), (Dr. Celine Pereira, School of Pedagogical Sciences) |
| 2014 |
| <ul style="list-style-type: none"> • Society for Educational and Scientific Research. (SESR) Nanotech Scientist Award- 2014 (Prof. Sabu Thomas, School of Chemical Sciences) • Research Award from UGC for a project on the Construct of the Nation in Post independent Malayalam Cinema (Dr. Saji Mathew, School of Letters) |
| 2015 |
| <ul style="list-style-type: none"> • Honorary doctorate (D.Sc.) from the University of South Brittany, Lorient, France (2015) (Prof. Sabu Thomas, School of Chemical Sciences) • Nanoscience Research Leader Award 2015 by Cognizure Publishers, hostess of the International Journal - Science Letters (Prof. Suresh Mathew, School of Chemical Sciences) |



| |
|--|
| <ul style="list-style-type: none"> Gandhian Service Award 2015 (Dr. George Joseph, School of Indian Legal Thought) |
| 2016 |
| <ul style="list-style-type: none"> Rudolph A Marcus Award 2016 in Chemical Sciences by Lognor, Publishers of Science Advances Today (Prof. Suresh Mathew, School of Chemical Sciences). Second prize in the Evonik Industries Chemistry Research Proposal competition ECRP 2016, Germany (Dr. G. Anilkumar, School of Chemical Sciences). Dr. APJ Abdul Kalam Award for Scientific Excellence – 2016 (Prof. Sabu Thomas, School of Chemical Sciences). The Loyalty Award “International Materials Technology Conference Exhibition” May 2016 Loyalty Award Club (Membership Number - IMTCE-LC-017) (Prof. Sabu Thomas, School of Chemical Sciences) |

2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

For enriching the teaching-learning process and promotion of excellence in teaching and research, the University encourages teachers to undergo training and development programmes. The details of staff who have undergone Staff Development Programs during the last six years are given in Table.

| <i>Academic Staff Development Programme</i> | <i>2010-11</i> | <i>2011-12</i> | <i>2012-13</i> | <i>2013-14</i> | <i>2014-15</i> | <i>2015-16</i> |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| Refresher courses | 4 | 3 | 4 | 3 | 3 | 3 |
| Orientation programmes | 2 | 2 | 3 | 2 | 2 | 1 |
| HRD programmes | 2 | 1 | 2 | 1 | 2 | 1 |
| Staff training conducted by other institutions | 4 | 3 | 4 | 4 | 5 | 3 |
| Staff training conducted by the university | 1 | 1 | 1 | 1 | 1 | 1 |
| Summer/Winter schools, workshops etc. | 14 | 16 | 15 | 17 | 16 | 15 |



2.4.9 What percentage of the faculty have:

- **been invited as resource persons in Workshops / Seminars / Conferences recognized by National / International professional bodies?**

About 85% of the faculty have been invited as resource persons in workshops/seminars/conferences.

- **participated in external Workshops / Seminars / Conferences recognized by National / International professional bodies?**

Almost 100% of the faculty have participated in workshops/seminars/conferences recognized by National/ International professional bodies.

- **presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies?**

Allmost 100% of the faculties have presented papers in workshops/seminars/conferences conducted or recognized by professional agencies.

- **teaching experience in other Universities/National institutions and other institutions?**

About 80% of the faculty have taught in other Universities, national institutions and industry.

- **Industrial engagement?**

About 30% of the faculty have worked in industries or have exposure to industrial scale operations.

- **international experience in teaching?**

About 20% of the faculty have international experience in teaching.

2.4.10 How often does the university organize academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content/knowledge management etc.) for its faculty aimed at enriching the teaching-learning process?

The university, through its Schools and IQAC regularly conducts meetings and programs for updating curriculum content, upgrading the teaching techniques, adopting new technologies for teaching, thus enabling the students to benefit. University encourages faculty members to attend orientation/ refresher courses/staff training/summer/winter workshops. The university reviews the curriculum, examination system practices, teaching-learning methods and takes necessary steps for their improvement. Examination reforms are a constant exercise in the university, as per the needs and changing



academic scenario. Periodic meetings are conducted by the CSS to discuss the reforms required and they are implemented, upon the approval of the Academic Council. An International Faculty Development Programme was organized in collaboration with North Carolina State University in 2014 at the campus. A faculty Development programme for University faculty was conducted by the University from 30th July to 12th August 2015.

2.4.11 Does the university have a mechanism to encourage

- **Mobility of faculty between universities for teaching?**
- **Faculty exchange programmes with national and international bodies?**

If yes, how have these schemes helped in enriching the quality of the faculty?

Exposure of faculty to other national and international bodies has been highly beneficial. The University encourages the faculty to take up teaching and research assignments in other universities, including foreign universities both for short and long periods as visiting fellows. Similarly, the university regularly invites experts, visiting faculty and resource persons from other universities and research institutes in India and abroad.

Collaborations have been established with such institutions and the university has signed many MoUs with national and international institutions. Through this, the faculty members of Mahatma Gandhi University visited these universities and delivered lectures and interacted with the leading researchers. Through international collaborative projects, researchers also get the opportunity to carry out joint advanced research and to gain expertise in their respective areas of research and teaching. This experience has also been beneficial to improve the overall academic quality in the university.

University has several chairs, and distinguished Professors and diplomats from India and abroad are invited to receive Chair Professorship. The Chair Professors/ diplomats interact with the faculty members and students on areas of mutual interest. Joint research publications and patents with academics from other institutions are ample testimony to the effectiveness of collaborative programmes.

2.5 Evaluation Process and Reforms

2.5.1 How does the University ensure that all the stakeholders are aware of the evaluation processes that are in place?

The Mahatma Gandhi University ensures transparency and accountability in evaluation of students in various programmes through various strategies. This is applicable to both internal and external components. Internal evaluation is continuous and teachers provide adequate and timely feedback to students. Their marks/ grades are intimated and sufficient remedial measures are suggested for improvement.

All Schools in the University conduct induction programmes for freshers. During the induction programme, the students are given an idea about the structure of the programme and evaluation processes involved. The University has adopted progressive evaluation strategies at the University School level. It has been conducting courses with academic flexibility on a credit based system.

Internal examination uses a large variety of evaluation strategies, such as test papers, surprise tests, seminars, projects, practical, and industrial visits. Guidelines showing components of internal and external assessments are displayed in the University website. Mark lists of internal examinations are put up on the notice board. The system of employing external examiners for setting of question papers and valuation during alternate semesters is another feature.

As per the PG regulations of the university, the performance of a student in a course is assessed (evaluation) in two stages – Continuous Assessment (CA with 50% weightage) and End Semester Assessment (ESA with 50% weightage). The faculty in charge of the course informs the continuous assessment strategies, modes, schedule, weightage etc. of a course in the syllabus and publishes it in the website for information to registered students.

The schedule of the ESA, finalized by the respective Faculty Councils is published on the notice board for information to all concerned. The Heads of the respective schools consolidate the continuous assessment scores of different courses of a programme for a given semester. Different modes of grievance redressal mechanism are functional at faculty, school and university levels.

As per the PG regulations of the university, a double blind valuation scheme (one internal and the other external) is in place for the end semester assessment. The schools finalize the grades of the individual courses considering the performance of the students in CA and ESA. The final results are forwarded to the office of the Controller through the CSS for final approval and publication. Assessments of the course work of Ph.D/M.Phil students are also done in a transparent manner and they are published in the notice board.

2.5.2 What are the important examination reforms initiated by the University and to what extent have they been implemented in the University Schools and affiliated colleges? Cite a few examples which have positively impacted the examination management system.

The university has successfully implemented CBCSS for the various programmes. Use of ICT in managing the finalization of examination results has been introduced saving a lot of labour, time and paper. The University publishes examination calendar every year highlighting deadlines for all examination related matters.

The University has also introduced fast track mode for issuing of degree certificates by which the students can have the same within a period of 30 days from the date of application, once the result is published.



There is a proposal for having an open book examination and each school has been asked to suggest areas where this can be implemented. Other than this, several modes of internal evaluation are being experimented in various Schools and Centers of the University which include objective question exams, commentaries, evaluating movies/ documentaries etc. For the PhD programme, new proposal has been made for the rapid evaluation of thesis and conduct of the viva voce examination by Skype for fastening the process which is under the consideration of academic bodies.

The performance of the students in the seminars and assignments is judged based on the criteria prepared by the concerned faculty and approved by the Faculty Council. Assignments and seminars are conducted by the Schools concerned in a manner that helps the students to develop a clear perspective and a critical appraisal of the issues around them. For example, in the School of Environmental Sciences assignments on field problems related to societal needs (like solving drought in an area, mitigating landslides, mapping an area to find out resources, surveying of an area) are given to students as assignments and group projects which are evaluated. Such activities provide students an opportunity to identify a research problem and to come out with exciting results.

In the School of Chemical Sciences, teachers apply new teaching strategies like flipped class rooms for internal evaluation and better dissemination of knowledge. In School of Letters, apart from regular seminars, students are asked to develop and perform drama and other art forms as part of their evaluation process. In the School of International Relations and Politics, film reviews are regularly done as part of specialized courses.

In the School of Communication and Journalism, students prepare news reports and make their own visual presentation. They are recorded on video camera and are screened before the whole class to be evaluated by the peer group. The students also prepare news reports which are designed, edited and finalized using different editing software.

2.5.3 What is the average time taken by the University for Declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the University for the Publication of examination results (e.g. website, SMS, email, etc):

The University has been very prompt in the conduct of examinations and timely publication of results. All Schools in the University are being provided with the academic autonomy facilitating immediate declaration of results. Results are published within 60 days of the last exam of the particular semester. Normally there is no delay in the publication of results as each School starts the valuation process within 10 days after an examination. The results for the affiliated colleges are published through the website (www.mguniversity.edu. –Examinations).



2.5.4. How does the University ensure transparency in the evaluation process? What are the rigorous features introduced by the University to ensure confidentiality?

The university ensures full transparency in the evaluation process. Confidentiality and transparency are maintained throughout the pre examination, examination process and post examination processes. The paper setters are nominated by the Vice-Chancellor from the panel suggested by examination committee. The answer books are checked by qualified experts appointed by the Vice-Chancellor. To ensure transparency, students are allowed to see the evaluated answer books and can record their grievances. Projects work is evaluated by external and internal examiners as per the provisions of the university. The faculty members supervise the project work and give proper feedback from time to time.

A grievance cell is constituted by the CSS to address the grievance of the students at the School level as well as at the University level.

2.5.5 Does the University have an integrated examination platform for the following processes?: Pre – examination processes and Post Examination processes

Pre – examination processes: Mahatma Gandhi University follows an integrated examination process. Pre-examination process involves notification of examination date, registration for exams and issue of hall tickets to students online. Also the examination section generates student attendance list.

Invigilators for conduct of examinations and expert members as squads for surprise visits in the examination centres are appointed by the university. Information of question paper setters is strictly confidential and dealt by the Controller of Examinations. The list of external examiners in double valuation scheme is handled by Chairman of Pass Board with the approval of the Vice-Chancellor in a confidential manner.

Examination processes All examination materials are counted, listed and accounted for. Actual conduct of examination is done by concerned institutions in their premises following the examination manual. The paper setters are nominated by the university from the panel suggested by examination committee. The answer books are checked by qualified experts appointed by the university. False number system is being followed at UG/PG levels in colleges during the evaluation to ensure confidentiality.

Post – examination processes

Attendance sheets are generated for each examination and the same is forwarded to the Controller of Examination. All answer sheets are sealed in assigned covers in the examination hall. The Chief Superintendent/HOD has the safe custody of papers. As stated earlier, the scripts are evaluated and minutes of the Pass Board (with tabulated mark list) are transferred to the Controller of Examination for



processing, results publication and certification. Students are allowed to see their evaluated answer books to ensure transparency.

2.5.6 Has the University introduced any reforms in its Ph.D evaluation process?:

Mahatma Gandhi University has introduced reforms since July 2010 for its Ph.D programmes. The university strictly follows the UGC regulations for evaluating Ph.D thesis. The new regulations contain details regarding the admission process, number of candidates to be guided by a supervisor at any given time, constitution and conduct of doctoral committee, course work and evaluation of thesis.

The Ph.D Regulations 2010 contain several provisions relating to evaluation of Ph.D thesis which is followed by the University. They include the following

- The maximum time given for valuation of Ph.D thesis is 45 days.
- On non receipt of evaluation report from the examiner concerned reminders are sent to the examiner after 30 days and a further reminder is sent after 45 days in addition to contacting the person concerned over phone/ e-mail.
- On non receipt of report from the examiner after 60 days from the date of assigning valuation, orders are issued by the Vice Chancellor to cancel the appointment and directions are issued to the examiner concerned to return the thesis. The thesis is then forwarded to a fresh examiner whose name is marked next in the panel of examiners by the Vice Chancellor.
- Monthly updates regarding submission of synopses/thesis along with the subject and date of submission; conduct of open defence, public viva-voce along with details like date of submission of thesis, date of viva- voce and remarks, if any, are submitted to the Vice Chancellor and the Director of Research.
- Declaration is sought from those who are appointed as adjudicators seeking their willingness to act as Chairperson and to conduct open defence/ public viva voce. If the examiner does not give consent for the above, fresh consent is sought from the next selected person in the panel of examiners.
- After the valuation of the thesis the first among the three examiners in the order of preference is appointed as Chairperson by the Vice Chancellor and the examiner concerned is requested to give acceptance for the same within 15 days of receiving the nomination letter. The date of viva voce is within 30 days of receipt of acceptance by the Chairperson. The copies of the evaluation reports are also sent to the Chairperson. In case the first examiner does not respond the next in the order of preference is appointed as chairperson.



- The university has dispensed with the practice of getting consolidated report from the Chairperson after completion of Ph.D valuation.
- The panel of examiners for adjudication of thesis consists of 10 to 12 experts of national or international standing known for their integrity and judgment and having no less than 10 years of teaching/research in the subject concerned.
- 50% of the experts in the panel are from outside the state.
- The invitation for Ph.D Open Defence and public Viva Voce can be sent by ordinary post instead of under certificate of posting and registered/speed post.

2.5.7 Has the University created any provision for including the name of the college in the degree certificate?

Mahatma Gandhi University has ten autonomous colleges which were started in the academic year 2014-15. University Law's 3rd Amendment Act 2014, by the Government of Kerala stipulates that the name of the autonomous college shall be mentioned in the certificate conferring the degree/diploma/title certificate, if the college requests for the same. The first batch of the students are yet to passout from the autonomous colleges.

2.5.8 What is the mechanism for redressal of grievances with reference to examinations?

Complaints with regard to examinations and results are adequately addressed and wherever necessary re- examinations and revaluations are conducted.

- In case of grievances regarding conduct of class test, semester examination and valuation methodology, students can approach the concerned teacher for grievance redressal.
- Further appeals can be made at the School/Centre level where a grievance redressal cell headed by the Director of the School is in place.
- A third level of appeal is the University level Grievance Redressal Cell which is the final authority for examination related grievance redressal.
- As regards external examinations, the student can apply for re-valuation as well as scrutiny of answer books, in the case of UG programmes. Recently, the University has introduced a scheme whereby the student can access photocopies of his/her answer books.



2.5.9 What efforts have been made by the University to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.

The Office of the Controller of Examinations of the university is at present headed by the Controller of Examination. Mahatma Gandhi University conducts examinations for the different programmes offered through its schools, centres, self financing institutions run by the university, affiliated aided colleges and affiliated unaided colleges during two sessions every year.

The website of university provides a single window online facility for every candidate of the University for pre-examinations enrollment, registration to University examinations and getting the scores in the examinations. Colleges can submit details of candidates for examination registration and download hall tickets online through this portal.

The examination manual has been issued which contains clearly defined duties and responsibilities of staff at the office of the Controller of Examinations. This has resulted in the smooth functioning of the office. Evaluation of answer scripts of most of the programmes offered by the University is done by way of centralized valuation camps ensuring coding before evaluation process.

One of the significant measures which benefitted the students' community is the issue of degree certificates under fast track mode by which the students can have the same within a maximum period of 21 working days from the date of application.

2.6. Student Performance and Learning Outcomes

2.6.1 Has the University articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?

The Mahatma Gandhi University has a clear vision and mission for achieving its academic goals. Each individual school has framed its own vision and mission regarding the graduate attributes expected to achieve in tune with that of the university.

The UGC emphasizes the importance of knowledge, development of skill, technology application, communication and presentation ability promoting the development of research culture and ethics. The university too, in its mission, speaks of these attributes to be achieved. Various academic programmes are planned and designed to achieve the attributes set by the regulatory bodies as well as the university.

The Mahatma Gandhi University advocates promotion of graduate attributes in acquiring conceptual, original and up-to-date knowledge in his/her discipline with the best practical orientation. With good communication skills and fine ethical values, excellent social responsibilities and environment friendly enterprises, the graduates are expected to become the torch bearers of wisdom.

The above is facilitated by the lectures that are combined with presentations, case studies, group discussions, class tests and projects. Monitoring of these attributes is done at the faculty and at school level. Strong practical orientation is achieved through practical classes, laboratory work and projects in – School, Industry and advanced institutions. Again monitoring of achievements and their final outcome is done at the School level.

There is adequate emphasis on development of skills required to perform effectively in the industry, research and higher educational fields after completion of the academic programme. Hands on experience is provided whenever and wherever possible to promote a better understanding of real life situations and reciprocate effectively.

A Language Laboratory and a Career Counselling and Placement Cell functions in the University to enhance the communication skill of students. The University also gives emphasis on promotion of business incubators and start-up ventures with the objective to kindle the entrepreneurial spirit among students, and provide customized support to pioneering business ideas with high growth potential. These initiatives support job creation, university – industry collaboration, and generate revenues for local business and governments.

Classroom learning adopts blended learning methods to facilitate effective learning.. Learning is made student-centric through interactive discussions, class room presentations and weekly seminars. Faculty uses lectures, presentations, case studies and laboratory exercises to improve student learning. Power point presentations, discussions in the classroom, preparing assignments, projects, flip classrooms, field visits, surveys and presentation by the students have been used to support classroom teaching. Students are encouraged to develop abstract and quantitative reasoning abilities. Thus efforts are made to ensure holistic development of the student.

2.6.2 Does the University have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?

Yes, Mahatma Gandhi University has clearly stated learning outcomes for each of its academic programmes. The learning outcomes expected of each programme are clearly stated in the curriculum of the respective academic programme. A well framed course outline with aim, objectives and teaching learning activities are provided to the students before the commencement of the programme.

The Faculty members explain to the students, the expected learning outcomes of the course, the teaching-learning methodologies, mode of examinations, conduct of student projects, societal responsibilities, career prospects etc. during the induction programme conducted at the beginning of the course.

Planning and implementation of the lessons are done semester wise by the



faculty members keeping in view of the learning outcomes. The basic objective of the teaching learning process is to enable the students to achieve the stipulated level of knowledge acquisition and skill development as required in the syllabus.

Besides the programme outcome, the curriculum also states the learning outcome expected of each individual as specified in the aims and objectives section.

The students and staff are made aware of the institutional objective through its official publications like the annual report, news letters, official website etc. Each School takes special care to have its own specific learning outcome catering to the needs of research institutes and employment market.

2.6.3 How are the University's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?

The University's teaching, learning and assessment strategies are structured in view of the larger mandate of the university. The courses are taught through an effective blending of conventional and modern instructional strategies and resources that make use of all ICT resources, tools etc.

Respective Schools ensure that the programme and course objectives are met through a pre-planned academic schedule involving a host of curricular and co-curricular activities. Modes of assessment involving continuous and end semester assessments are meticulously designed to appropriately test the learning outcome expected of the course and programme.

Schools update their programme curriculum regularly to keep pace with the recent development and advances in the field of study and to reflect the changing needs and demands of the society, market and industry. To equip the existing faculty members to cope with the ever-evolving curriculum, ample support, guidance, opportunities and encouragement are provided to them for updating their skill set and knowledge base. This is accomplished through faculty development programmes.

Students are made aware of the programme objectives. For instance, they have to realise that, core courses are mandatory for securing a degree. They are also made aware of the benefits of the elective courses. Students are encouraged to develop abstract and quantitative reasoning abilities. Enrichment programmes and capacity building programmes offered by various schools have added value to the existing programmes. To ensure holistic development, teaching-learning process is made student-centric through interactive discussions, class room presentations and weekly seminars. New innovations in teaching – learning and evaluation process like flipped class rooms, surprise tests, tests with open books, online examinations and assignments etc are also incorporated to ensure achievement of the intended learning outcomes.

The teaching, learning and assessment strategies are structured right from framing the curriculum and preparing the annual plan by the schools and boards of studies. The students are updated with the information relating to time table and the academic programme during the induction programme. Learners are assessed through the informal interaction at the end of each teaching session and doubts of the learners are cleared. Internal assessment scheme, home assignments, seminar presentations, student project reports and internal examinations as well as semester examinations are the assessment strategies structured to facilitate the achievement of the intended learning outcomes. A fool- proof internship placement system is in place through its industry linkages and it has resulted in achieving the intended goals through professional placement.

The University also has structured committees like guidance cell, placement cell, counseling cell, eco club, women cell etc attached to several schools to help the students to orient themselves in relation to specific aims.

2.6.4 How does the University collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?

The internal and external evaluation processes are a good indicator to evaluate a student's output. The results of each semester are critically examined by the pass board course-wise as well as student-wise. Necessary changes in easing and enhancing the learning process is undertaken on the basis of student feedback. The learning outcomes are collected through the regular informal interaction in the classes, periodical tests, internal assessment, home assignments, seminar presentations, student project reports and internal examination as well as end-semester examinations.

Teachers discuss in staff meetings, the difficulties faced by the students related to language and communication skills, technology awareness, socio-cultural issues etc. These are discussed and addressed in the classrooms for the benefit of all students. In addition, the feedback taken from the students are utilized in making the necessary modifications in institutional functioning.

Slow learners are identified and counseled individually in case of specific difficulties. Staff members themselves work out the strategies suitable to overcome their barriers. The university has provision of remedial coaching for the backward students, where, areas of difficulty as per their requirement are addressed. Satisfactory and high level learners are also motivated and provided guidance to perform better. Scholarships provided by the Government,UGC and other funding agencies as well as the university definitely motivate the learners.



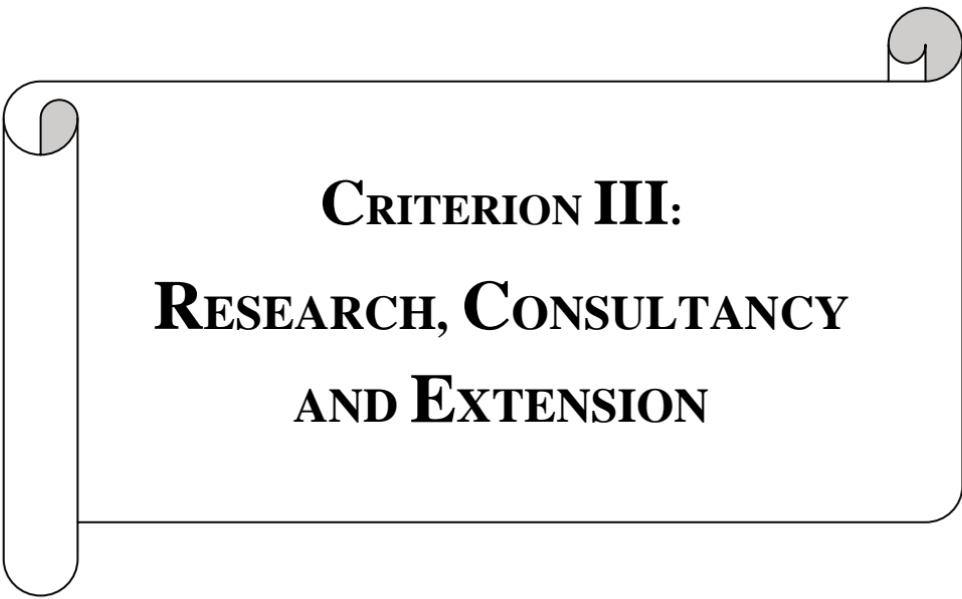
2.6.5 What are the new technologies deployed by the University in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?

The Mahatma Gandhi University encourages the use of e-learning resources along with the traditional learning resources for effective teaching and research. The university has well established central computer facility. Every teacher has been provided either a laptop or desktop to carry out his/her work. It enables the faculty members to prepare computer aided learning materials. Faculty members encourage students to use web resources for preparing study materials and proper information is supplemented to them. The Schools and hostels have round the clock internet connection.

With the help of LCD and smart classroom facility, effective teaching and learning takes place in the campus. Some of the effective technologies used by the university include:

- Smart class rooms
- Campus-wide Wi-Fi enabled high-speed internet connectivity
- 24x7 online access of course contents and other learning resources through the Open Learning Content Management System
- Access of Massive Open Online Courses (MOOCs) resources from Udacity, Coursera, etc.
- Access to digital resources like e-books, e-magazines, e-journals etc
- Access to online Educational Video and Audio Resources
- Access to more than 10000 online e-journals
- Access to other web resources like online encyclopedia, online digital libraries, portals & gateway, institutional repositories, web directories, etc.
- Access to virtual laboratories and tools
- Access to blogs, social networks, online discussion forums
- Edmodo, an interactive teaching learning platform

All these modern learning resources, tools and services have turned the conventional classrooms into 24x7 learning place.

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CRITERION III:
RESEARCH, CONSULTANCY
AND EXTENSION

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes. There is a University Research Committee consisting of the following members.

| Sl.No | Designation |
|--------------|---------------------------------------|
| 1. | Vice- Chancellor, Chairman |
| 2. | Pro-Vice Chancellor |
| 3. | Registrar |
| 4. | Member Syndicate |
| 5. | Director of Research |
| 6. | Director, College Development Council |
| 7. | Member-1* |
| 8. | Member-2* |
| 9. | Member-3* |
| 10. | Member-4* |
| 11. | Member-5* |
| 12. | Member-6* |
| 13. | Member-7* |

*Eminent Academicas Nominated by VC

Important recommendations of the Research Committee are the following:

1. Implementation of UGC regulations
2. Award of Ph.D degree
3. Recognition of Research Centres.
4. Recognition of Research Guides
5. Renewal and Extension of Ph.D registration

In addition, the University Syndicate has a Standing Committee for policy decisions with respect to research & development. The committee consists of a Convenor and members of the Syndicate.



3.1.2 What is the policy of the university to promote research in its affiliated / constituent colleges?

At Present the University has approved Research Centres (for affiliated colleges and other institutions).

Affiliated Colleges as Research Centres: Number of affiliated colleges as research Centres: **40**

Institutes recognized as Research Centres: Number of Institutes (State/National) as research Centres: **46**

The University has a vibrant Directorate of College Development Council (DCDC) which coordinates the research needs of affiliated colleges. Directorate of College Development Council acts as the Coordinator for all affiliated colleges with the UGC (SWRO at Bangalore). The activities carried out by DCDC are listed below.

| Sl No | Activities | Academic years | | | | | |
|-------|---|----------------|---------|--|---------|---------|--|
| | | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| 1 | Minor Research Projects Forwarded to UGC | 60 | 78 | 295 | 425 | 373 | 77 |
| 2 | Major Research Projects Forwarded to UGC | 3 | 10 | 28 | 12 | 4 | Nil |
| 3 | Seminar Proposals forwarded to UGC | 43 | 86 | 204 | 241 | 188 | 195 |
| 4 | UGC Sponsored Seminars Certified | 48 | 63 | 85 | 61 | 122 | 84 |
| 5 | Other Seminars Certified | 12 | 15 | 2 | 4 | 1 | 2 |
| 6 | Proposals for Developmental Assistance to Colleges Forwarded to UGC | 27 | Nil | 55 | 74 | 119 | Nil |
| 7 | Proposals for Colleges with Potential for Excellence Forwarded to UGC | 5 | Nil | Nil | Nil | 2 | 9 |
| 8 | Faculty Development programme (FDP – formerly called FIP)- No of Applicants | 26 | 32 | During 12 th Plan period a total number of 214 applications have been forwarded to SWRO - UGC | | | |
| 9 | Short term Programmes | | | Nil | Nil | Nil | Inter- disciplinary prog conducted for two weeks from 30 th July to 12 th August 2015; for the University Teachers |



3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/projects?

- a) **Advancing funds for sanctioned projects:** Funds are advanced subject to availability of funds.

- b) **Providing seed money:**

An amount of Rs 100000/- has been earmarked in the University budget as project seed money.

- c) **Simplification of procedures related to sanctions / purchases to be made by the investigators:**

The Principal Investigator is given complete autonomy to utilize the project amount as per the project sanction order. A separate bank account is opened (with prior sanction of University authorities) for operations of all externally funded projects. No prior sanction is needed for purchase of equipments which is the responsibility of the Principal Investigator of the project and is done according to rules and regulations of the Kerala State Store Purchase Manual. The administrative section provides the DSIR and Excise Exemption Certificates to the Principal Investigator on submission of application with all required details. The certificate is provided within a period of one week on submission of documents. Purchase of consumables is done from vendors who have entered into rate contract with the University.

- d) **Autonomy to the principal investigator/co-ordinator for utilizing overhead charges:**

Normally the overhead charges are deducted prior to transfer of funds to the project account maintained by the Principal Investigator. However, under certain conditions upto 80% of overhead charges are released to the project account.

- e) **Timely release of grants:**

The project funds are normally released to the project account maintained by the Principal Investigators within a period of two weeks after the receipt of funds, in the Mahatma Gandhi University fund.

- f) **Timely auditing:**

The University has an approved panel of five Chartered Accountants. The Principal Investigator of the projects are authorised to get yearly auditing of UC & SE of their projects by any one of the approved Chartered Accountants.

- g) **Submission of utilization certificate to the funding authorities**

The final auditing at the time of submission of completion report is done by the Local Fund Auditor.



3.1.4 How is interdisciplinary research promoted?

a) **Between/among different Departments /Schools of the university:**

The schools and centres of the university collaborate very actively on joint research programmes. Joint research projects have been submitted to funding agencies on a collaborative mode between schools and centres. Student are also supervised jointly by faculty members of different schools and centres.

Recently, a new concept of convergence of different disciplines is promoted and an exclusive building called Convergence Academia Complex (CAC) is under construction at an estimate of Rs. 29 Crores. CAC will house all the Inter University and Inter School Centres having diversified programmes in order to promote interdisciplinary research.

b) **Collaboration with national/Institutes/Industries:**

Several schools have collaboration with national institute and industries. Here are the details.

| Sl No | Programme | Collaborative institute |
|---------------------------------------|--|--|
| School of Behavioural Sciences | | |
| | GFATM Project - SAKSHAM (The Global Fund to Fight AIDS, Tuberculosis and Malaria, Round 7, HIV/AIDS Counselling Programme), 2009-14 | WHO programme funded through Tata Institute of Social Sciences (TISS), Mumbai |
| School of Biosciences | | |
| | DBT builder programme with IIUCNN | DBT |
| | Molecular mechanism of antidiabetic activity of <i>Costus pictus</i> (No. 025/IBRS/KBC/2013 Dated. 11.11.2013) | Kerala Biotechnology Commission-KSCSTE- Industry Partner-Arjuna Natural Extracts. |
| | Health promoting capabilities of potential probiotic strains isolated from infant gut microflora | ICMR (Collaborative project with Dr. Sabu Thomas, Scientist E11 as CO- PI, Rajiv Gandhi Centre for Biotechnology) |
| School of Chemical Sciences | | |
| | Respond project from ISRO 2016-2019 | ISRO |
| | Development of high performance rubber nano composites for tyre engineering 2007-2011 | DST-Apollo Tyres |



| | |
|--|---|
| Tuning the properties of stimuli sensitive copolymers- A step towards purification of water 2009-2012 | SERC,DST |
| High performance polymer blend from epoxy resin and PTT for aerospace application 2009-20012 | DRDO |
| Carbon nanotube filled natural rubber nanocomposites 2010-2013 | UGC-DAE |
| School of Environmental Sciences | |
| National Vegetation Carbon Pool – Kerala Region 2011-2013 | IIRS, ISRO |
| Nation wide Environmental Gamma Radiation Monitoring Using TLDs (A National Mission programme) 2014-2016 | BRNS |
| Investigation of the spatial distribution of uranium and associated water quality parameters in five central districts of Kerala 2015 onwards | BRNS |
| School of International Relations and Politics | |
| Paddy Culture in Kuttanad, Kerala: Folk Traditions, Rituals and Festivals 2012-14 | Indira Gandhi International Centre for the Arts, New Delhi. |
| MGNREGS Assessment Evaluation Study- Eranakulam District. 2013-15 | State Institute of Rural Development, Govt of Kerala. |
| MGNREGS Assessment Evaluation Study- Pathanamthitta District. 2013-15 | State Institute of Rural Development, Govt of Kerala. |
| MGNREGS Assessment Evaluation Study- Kollam District. 2013-15 | State Institute of Rural Development, Govt of Kerala. |
| School of Pure And Applied Physics | |
| National pooled funds utilized for the promotion of teaching & research in Astronomy & Astrophysics | MoU with (IUCAA, Pune) |
| National pooled funds utilized for science development for the Square Kilometer | MoU with Square Kilometer Array India |



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| | Array | Consortium |
| School of Social Sciences | | |
| | Rehabilitation Plantation: Socio Economic sustainability', (2005) | Project Sponsored by Rehabilitation Plantation Corporation, Punalur |
| | Evaluation of Ecodevelopment Programme at Periyar Tiger Reserve), (From March, 2009 April, 2011) | Periyar Foundation, Periyar Thekkady. |
| School of Tourism Studies | | |
| | "Social Media as an influencer among foreign tourists visiting India" 2014-16 | Indian Institute of Tourism and Travel Management and Ministry of Tourism, Govt. of India |
| | Discover Kottayam 2014-16 | District Tourism Promotion Council (DTPC), Kottayam |
| International and Inter University Centre for Nanoscience and Nanotechnology | | |
| | Dept of Materials Engineering, Indian Institute of Science (IISc), Bangalore | |
| | Appollo Tyres, MRF tyres | |
| | Rubber Research Institute of India, Kottayam, Kerala, India - 686 009 | |
| | NIIST, Trivandrum, Kerala, India - 695 012 | |
| | Central Power Research Institute, Bangalore, India - 56094 | |
| | Vikram Sarabhai Space Research Centre, Trivandrum, India | |
| | Rubber Technology Centre, Indian Institute of Technology, Kharagpur, India | |
| | COMPTECH, Indian Institute of Technology, Chennai | |
| | Polymer Chemistry Division, National Chemical Laboratory, Pune, India | |
| | Sree Chitra Thirunal Institute of Medical Sciences and Technology, Trivandrum, Kerala, India | |
| | Central Institute of Plastic Engineering and Technology, Guindy, Madras, India | |
| | of Polymer Science & Rubber Technology, Cochin University of Science & Technology, Cochin - 22, Kerala, India | |
| | Indian institute of Chemical Technology, Hyderabad, India | |
| | Laboratory of Condensed Matter Physics, Department of Physics, University of Rajasthan, Jaipur, India | |
| | Reliance Industries Limited, Maker Chambers IV, 3rd Floor, 222, Nariman Point, Bombay | |
| | Elastomers Technical Services, Madurai, India | |
| | High Polymer Engineering Division, Department of Chemical Engineering, Indian Institute of Technology, Madras, India | |



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| | Department of Chemistry, Karnatak University, Dharwar, Karnataka, India | |
| | Department of Civil Engineering, Indian Institute of Technology, New Delhi, India | |
| | Common Facility Service Centre, Industrial Estate, Changanacherry, Kottayam, Kerala, India | |
| | Department of Physics, University of Mysore, Mysore | |
| Inter University Centre for Biomedical Research & Super Specialty Hospital | | |
| | IUCBR and Bangur Institute of Neurology, Kolkata | Bangur Institute of Neurology, Kolkata |
| | IUCBR and Manovikas Kendra, Kolkata | Manovikas Kendra, Kolkata |
| Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) | | |
| | Small scale water filtration unit using clay. | IIT, Jodhpur. |
| Inter University Centre For Disability Studies | | |
| | Empowerment of Persons with Disabilities (PWDs) through Community Integration” | “ Santhigiri Rehabilitation Institute, Vazhithala P.O, Thodupuzha- 685583 |
| | “Skill development training programme to the persons with disabilities” | Theeradesa Raksha Social Welfare Society (TRSWS), Reg. No. 566/2001, Sidco building, Beach Road, West Hill P.O, Calicut- 673005. |
| Advanced Molecular Materials Research Centre (AMMRC) | | |
| | Propellant Burn rate modifiers 2016-18 | ISRO |
| KN. Raj Centre for Planning and Centre-State Relations (KNRC) | | |
| | Conducting Training programmes 2016-17 | Collaboration with Gulati Institute of Finance and Taxation, Trivandrum; |
| | Participation in training programmes 2015-16 | Institute for Studies in Industrial Development, New Delhi |



c) Collaboration with international institutes / industries:

| School of Chemical Sciences (SCS) | | | |
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| 1 | Hierarchical bio composites from Isora fibres and unsaturated polyester | 2014-2016 | DST-Austria |
| School of Biosciences | | | |
| 2 | Dr. J.G.Ray received Prometeo Sabios Fellowship of Ecuador Government to conduct collaborative studies at Ecuador with professors in their university. | | Fellowship of Ecuador Government |
| School of Environmental Sciences | | | |
| 3 | Long-Term Monitoring of Kongsfjorden System of Arctic region for climate change studies | 2015-2016 | ESSO-NCAOR, MoES |
| 4 | Long Term Environmental Monitoring of Fjord Ecosystems, Ny-Ålesund (Arctic) | 2016-2017 | ESSO-NCAOR, MoES |
| 5 | Development of Self-contained, PV powered domestic toilet and waste water treatment system. | 2014-2015 | California Institute of Technology, USA |
| 6 | Microbial Fuel Cells | 2014 | University of West of England (UWE), Bristol, UK |
| 7 | An Interdisciplinary and Community Oriented Innovative Approach | 2012-2015 | UGC / Obama-Singh 21st century knowledge initiative/ with Brown University, Duke University and Plymouth State University |
| 8 | Pulse radiolysis of biomolecules | 2010-2012 | Indo-French ARCUS Project |
| School of International Relations and Politics | | | |
| 9 | Academic Exchanges | 2010 | Jinan National University China |
| | | | Institute of Political |

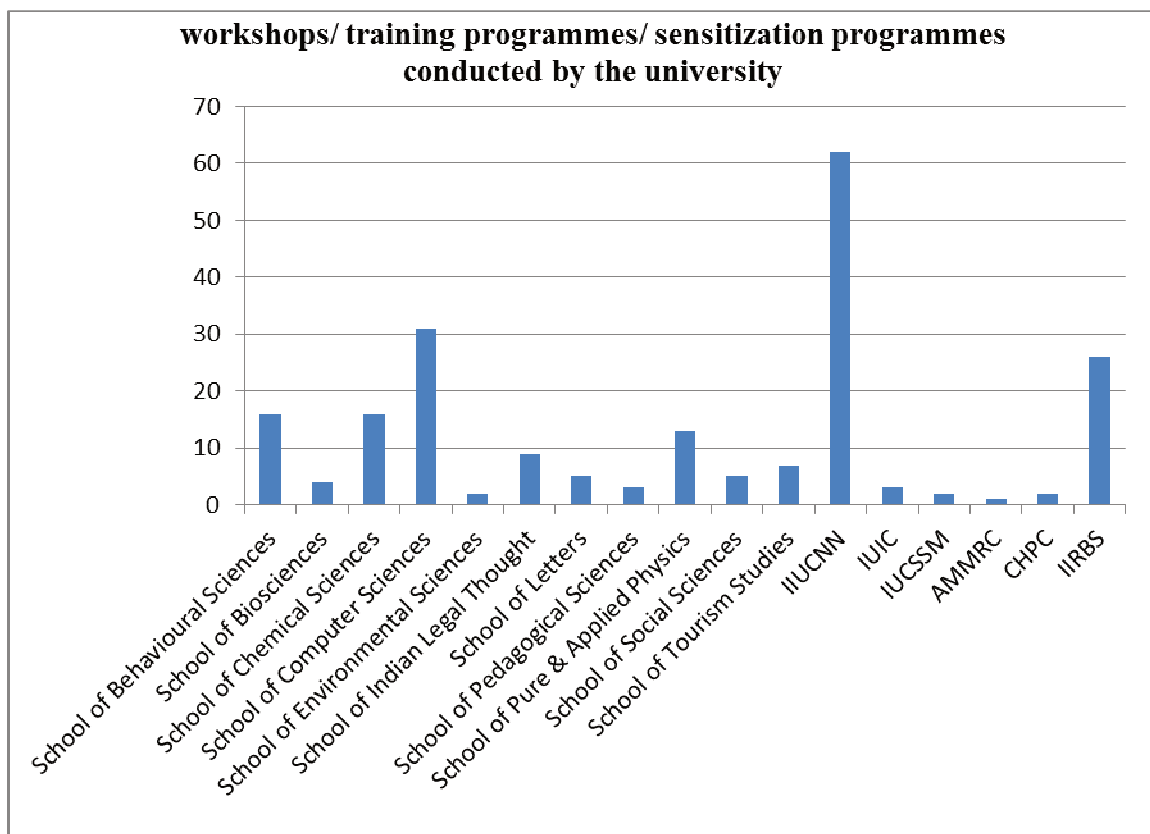


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| | | | Studies, Renne, France. |
| | | | Institute of Political Studies, Bourdeau France. |
| School of Tourism Studies | | | |
| 10 | Project for Mango Languages | 2011 – 12 | Mango Languages, USA |
| International and Inter University Centre for Nanoscience and Nanotechnology | | | |
| 11 | Nano biomaterials water purification | 2016-17 | Researcher Links scheme offered within the Newton Fund, the British Council & Royal Society of Chemistry, London |
| 12 | Cross-linked polyethylene Nano composite for cable insulating application | 2016-17 | University of Mara, Malaysia |
| 13 | The Centre has collaboration with following industries. 1. General Cables, USA, (completed) 2. Surface Treat, Czech Republic, (Running) | | |
| Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) | | | |
| 14 | Nanofiber structures for efficient enzyme immobilization in membrane applications. | 2016-2019 | Network project between Department of Energy Conversion and Storage, Technical University of Denmark (DTU) |
| 15 | Advanced membrane processes for water treatment | 2016 | Ben-Gurion University, Israel |



| Advanced Molecular Materials Research Centre (AMMRC) | | | |
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| 16 | “Study of fundamental Chemical and Physical properties of magnetic ionic liquid nanofluids”. collaboration with Department of Physics, Rzeszow University of Technology, Poland | 2015-17 | DST, Govt. of India & (funding agency in Poland) |

3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the university to promote a research culture on campus.



| Name of School/ Department | Details of workshops/training programmes conducted |
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| School of Behavioural | 1. International Workshop on Building up Research, 11-13, August, 2013. Convenor -Ms.Rincymol Mathew) |



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| Sciences | <ol style="list-style-type: none"> 2. Symposium on Enhancing Quality of Research. 25.6.2015 (Convenor – Dr. P. S.Sukumaran) 3. Workshop on Research Methodology and Statistics. 16-18, September 2016 (Convenor - Dr. P. T. Baburaj) . Organized through IUCDS. 4. Two Weeks Orientation Workshop on Braille (English & Malayalam) for General School Teachers in Collaboration with Regional Centre of National Institute for the Visually handicapped, Chennai. 25.09.2015 to 10.10.2015 (Convenor – Dr. K. M. Mustaffa) 5. Workshop on Rorschack- Psychological testing. 28-29, September 2015 (Convenor – Dr. Rajeevkumar N.) 6. Workshop on Learning Disability. 15.02.2016 (IUCDS) (Convenor – Dr. P. T. Baburaj) 7. Workshop on Cognitive Behaviour Therapy. 22-24, March 2013. (Convenor – Dr. Rajeevkumar N.) 8. Empowering Teachers in Mentoring and Student Counselling. 29-31, March 2016. (Dr. rajeevkumar N). 9. National Seminar on Management of Learning Disabilities. 22.03.2011. (Convenor – Mr. Rajesh E.) 10. Workshop on Learning Disability. 28-29, June2016 (Convenor – Dr. P. T. Baburaj) 11. Workshop on Curriculum Revision. 28-29 April 2016. (Convenor – Dr. P. S. Sukumaran) 12. Workshop on BEd Special education Curriculum Revision On 23.04.2015 (Convener Dr. P. S. Sukumaran) 13. Workshop on M.Ed Special education Curriculum Revision On 24.06.2015 (Convener Dr. P. S. Sukumaran) 14. Seminar on National Trust Act, 1999 and Legal Guardian ship for the parents of individuals with Autism Cerebral palsy mental retardation and multiple |
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| | <p>disabilities, 15.12.2014(Convener Dr. P. S. Sukumaran)</p> <p>15. Orientation Course in Indian Sign Language, 11th – 13th November 2015(Convener Dr. Muhammad Mustaffa)</p> <p>16. Refresher Course on Braille 26.8.2015 – 10.09.2015(Convener Dr. Muhammad Mustaffa)</p> |
| School of Biosciences | <ol style="list-style-type: none"> 1. Hands on workshop on DNA Barcoding of microbes.on 30.3.2014. Convener, Dr.Jisha.M.S 2. Workshop on “Molecular Phylogenetics in Microbiology”26.9.2012-28.9.2012Convener Dr.Jisha.M.S 3. One day Workshop for Teachers of affiliated Colleges in connection with PG Biotechnology Syllabus Revision -2015. 4. National Training cum workshop on molecular docking and drug designing 23-25 March 2015 organized by School of Biosciences, Mahatma Gandhi University and BioDiscovery Group Life Sciences,, conducted on 23-25 March 2015. Convenor Dr.Prakashkumar B |
| School of Chemical Sciences | <ol style="list-style-type: none"> 1. National work shop on "Fundamentals and applications Material science" organized in association with SRIBS(KSCSTE) on march 4-6 held at Kottayam 2. National Workshop on "NMR Spectroscopy", 10th - 13th September 2014 3. Workshop on High Performance Liquid Chromatography (HPLC), 4th& 5th November 2013. 4. Workshop on "Computational Chemistry", May 28th - 31st, 2012 5. Workshop on "Basic Principles and applications of Computational Chemistry", May 23rd - 27th, 2011 at IIRBS 6. DST-PURSE sponsored Workshop on Frontiers of |



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| | <p>Spectroscopy and Microscopy, Kottayam, September 10-12, 2012 (participation)</p> <p>7. National Workshop on Advances in Instrumental Techniques for Nanomaterial characterization on 7-8 March, 2014 at Kottayam (Participation)</p> <p>8. The School has hosted the interactive session on Indian Space Mission with Dr. K. Radhakrishnan, former Chairman, ISRO</p> <p>9. Invited lecture Journey to Mars by Dr. K. N. Ninan, Former Deputy Director, VSSC, Thruvananthapuram</p> <p>10. National Colloquium on Recent Trends in Organic and Bioorganic Chemistry on 24th October, 2013 at Calicut University, Calicut, India –KSCSTE –G. Anil Kumar and Prof. E. Purushothaman (Course Coordinators)</p> <p>11. National Colloquium on Recent Trends in Organic and Bioorganic Chemistry on 18-20 July, 2014 at Kottayam, India-- KSCSTE –G. Anil Kumar (Course Coordinator)</p> <p>12. Workshop on Quantum Mechanics for M Sc Chemistry students and faculty on 20-21 June 2015 at Kottayam-- KSCSTE –G. Anil Kumar (Course Coordinator)</p> <p>13. Workshop on Group Theory for M Sc Chemistry students and faculty on 30 Oct-1 Nov 2015 at Kottayam -- KSCSTE –G. Anil Kumar (Course Coordinator)</p> <p>14. Workshop on Stereochemistry for M Sc Chemistry students and faculty on 8-10 January 2016 at Kottayam -- KSCSTE –G. Anil Kumar (Course Coordinator)</p> <p>15. National Colloquium in Organic and Bioorganic Chemistry held at Kottayam on 29-31 July 2016 -- KSCSTE –G. Anil Kumar (Course Coordinator)</p> <p>16. National Colloquium on Catalysis: Emerging Trends- held at Kottayam on 30 Sept-2 Oct 2016-- KSCSTE – G. Anil Kumar (Course Coordinator)</p> |
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| School of Computer Sciences | <ol style="list-style-type: none">1. Interface –Annual Technical Meet , a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School, Every December.2. Workshop on “Tour Making”, Mr.Aravind Paranjpye, Officer for Science Popularization,IUCAA, Pune, October 18-19, 2010.3. Workshop on “FOSS and BOSS”, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010.5. Workshop on “e-Astronomy and Statistics”, organized bySchool of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011.6. Workshop on “MCA Syllabus Revision”, Mahatma Gandhi University, 24-25 March 2011.7. Workshop on “Computer Networking Leading to CCNA Certification”, March 16, 2011.8. Workshop on “Teaching Learning Process”, by Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.12. Workshop on “ Open source software “ was organized by the School during 2012 , inaugurated by Dr. Iqbal , former Vice-chancellor of Kerala University.13. National level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012.14. A one day ISTE e-Workshop on “Creative Teaching” at School of Computer Sciences, October 2013.17 . Spoken Tutorial project(an initiative of NMEICT, MHRD, Govt. of India) in the University, a training session at School of Computer Science and |
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| | <p>Engineering/Computer Applications/IT institutions under M G University on 27.08.2014, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay.</p> <p>21. A workshop on ‘Training A-view System’ by A-View team of Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India, on 23rd February 2015.</p> <p>22. A workshop on ‘Scilab’ by the Spoken Tutorial Project, through “Talk To A Teacher” project of IIT Bombay on 25/3/2015, funded by National Mission on Education through ICT, MHRD, Govt. of India.</p> <p>23. One day workshop on i. ‘Principles and Practices of a Good Professional and Personal Life’ and ii. ‘How to face an Interview’ on 19/08/2015.</p> <p>25. Two-day National Workshop on “India’s First Cloud Computing Championship – IFC3 INDIA” in collaboration with Neuromancers, IIT Bhubaneswar and Infero, Scitech Council IIT Hyderabad from 9.02.16 to 10.02.16. Our School served as a zonal centre.</p> <p>26. 3 day workshop on “Network Simulator 2” (19.11.15 to 21.11.15) for faculty members as well as M Sc/M Tech and Research students of the School.</p> <p>29. A workshop on “Cloud Solutions and Implementation” for faculty and technical staff of the School on 28.06.2016 by Mr. Saneesh Kaniyath, Sr. Technical Consultant, Smartsoft, Cochin.</p> <p>30. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016 as part of Capacity Building and Knowledge Upgradation for faculty members and M Sc/M Tech/M Phil and Research students of the</p> |
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| | <p>School , in collaboration with Scientific Computing Solutions, Chennai.</p> <p>31. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016</p> |
| School of Environmental Sciences | <ol style="list-style-type: none"> 1. OSI workshop on “Membrane technology” in collaboration with Duke University, August 2015. 2. Nineteenth National Symposium on Environment (NSE-19) , December 11-13, 2014 at School of Environmental Sciences, MG University. |
| School of Indian Legal Thought | <ol style="list-style-type: none"> 1. A National Seminar on Access to health Care in Modern Era :Changing Dimensions, was organised by the School on 13-15th March,20167th National Moot Court has been successfully organized. 2. Dr. Ambadkar Memorial Lecture on 29th& 30th March 2012 on the topic Access to Health Care in India: Implications of Patent Laws has been delivered by Dr.N.S. Gopalakrishnan (Prof. HRD Chair on IPR and Director, Inter University Centre for IPR Studies, CUSAT. 3. 8th National Moot Court competition has been successfully organized during 14-16th Feb,2013. 4. 9th National Moot Court has been conducted during February 20th and 22nd of February 2014. 5. Dr. Ambadkar Memorial Lecture on 8th March 2014 on the topic of Constitutional Dharma and Contemporary Challenges has been delivered by R. Venkatramani (Senior Advocate of Supreme Court of India & Member of Law Commission of India). 6. Legal literacy mission in various schools and colleges in Kottayam district 7. Dr. Ambadkar Memorial Lecture on 29th February 2015 on the topic of Judicial Activism and Judicial Restraint has been delivered by Hon. Dr. Justice B.S. Chauhan (Chairman Cauvery Water Dispute Tribunal and Former Judge of Supreme Court of India) on 29th |



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| | <p>February 2015 on the topic of Judicial Activism and Judicial Restraint.</p> <p>8. Dr. Ambadkar Memorial Lecture on on 30th March 2016 on the topic of New Constitution Challenges was delivered by Prof Dr Sivakumar, Prof Indian law Institute, New Delhi on 30th March ,2016.</p> <p>9. Hon'ble Justice V.Eswariah, Chairperson, National Commission for Backward Classes and Former Chief Justice High Court of Andhra Pradesh delivered a lecture on "Free Press and Independent Judiciary" on 18.12.2015</p> |
| School of Letters | <p>1. Workshop on Malayalam Computing in August 2015.</p> <p>2. Workshop on Poetry, drama, and story in September 2012</p> <p>3. Workshop on Knowledge text translation in collaboration with CIIL, Mysore from 13-16 February 2013</p> <p>4. Workshop on reading ancient Malayalam scripts (<i>vattezhuthu, kolezhuthu, grandhaksharam etc.</i>) in 2014</p> <p>5. Translator's Orientation Programme from 13 to 16 February 2013.</p> |
| School of Pedagogical Sciences | <p>1. Three day Workshop on Research Methodology from 12th to 14th August 2013</p> <p>2. One day Lecture on Research Methodology by Professor (Dr.) M. A. Sudhir, Gandhigram Rural University, on 7th December 2014</p> <p>3. One day Lecture on Research Methodology by Professor (Dr.) M. A. Sudhir, Gandhigram Rural University, in March 2016</p> |
| School of Pure & Applied Physics | <p>1. National Workshop on Mathematics for (Astro) Physics, M G University Kottayam, Sept 27 -Oct 01 2011 MGU & IRC, Kochi</p> <p>2. National workshop on Materials characterisation by diffraction Methods, M G University Kottayam,</p> |



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| | <p>February 24-25, 2010</p> <ol style="list-style-type: none"> 3. Workshop on Developments in Crystallography, SPAP, 16 - 17, December 2014. 4. Inculcate Science Propagation Program by Govt. of Kerala, 27 Sep 2014 5. Lecture 5: Frontier Lecture Series 27th Sept 2011 'The Relation Between Mathematics & Physics' by Prof. N. Mukunda (IISc & Vice President Indian Academy of Sciences) 6. Workshop on Fourier Transforms in (Astro)Physics Feb 13 -15 2013 7. September 28 2015 Prof Dileep Karanth, University of Toledo, Erudite Lecture on Pseudopotential studies of nanowires and nanorings 8. Lecture on "Radio Astronomy" by Jagadheep Pandiyan Indian Institute of Space Science & Technology, Thiruvananthapuram 20 November 2015 9. "Radio Astronomy Data & Its Analysis" Lecture by Rabi Akkiba Angiras, Member SKAIC Science Working Group 11 Jan 2016\ 10. Einstein Lecture Series -Lectures by Prof Bala Iyer, Council Chair, IndIGO Consortium, ICTS TIFR 2nd Feb 2016 11. Lecture by Prof John Philip, Head, SMARTS, IGCAR Kalpakkam, on 'Light and the Nano World' 25th Feb 2016 12. Infosys Science Foundation Lecture by Prof G Ravindra Kumar, Winner Infosys Prize in Physics on "Extreme Light Extreme States" 29 March 2016 13. Lecture by Dr A M Vinodkumar Calicut University on "Fusion : Quest for Super Heavy Elements" 6th April 2016 |
| School of Social Sciences | <ol style="list-style-type: none"> 1. Co-ordinated three University level (2010,2011&2012) and two state level ACQUIRE UG Scholarship programme funded by Govt. Of Kerala (2010,2011). 2. Co-ordinated two state level PG Workshops |



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| | <p>(AQUIRE) funded by Govt. Of Kerala(2011-12).</p> <ol style="list-style-type: none"> Three Scholar in Residence Programmes funded by the Higher Education Council. (Gayathri Spivak, Romila Thapar(2013) and Partha Chatterjee,2013). Five day Social Science Methodologies Workshop delivered by Prof. Ahmed Nissar, 2015. Five day workshop on Assistive Technologies for Visually Impaired Students doing Social Sciences at ABILITY Station of SSS |
| School of Tourism Studies | <ol style="list-style-type: none"> One day Workshop on “Zotero” – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies in August 2014 One day workshop on “Mendeley” – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 28th April 2016 Two day National Level Workshop on “Contemporary Research Methods and Software Packages” organized by School of Tourism Studies on 25th and 26th May 2016 One day seminar on “How to avoid Academic Plagiarism” organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 30TH May 2016 A workshop on ‘Discover Kottayam’ (tourism product branding) along with DTPC – Kottayam. One day seminar on Literary Tourism with DarshanaAcademy and DPC, Kottayam. Two day National Level Workshop on Research Methodology and SPSS software in May 2016 |
| Name of the Centre | Details of programme conducted |
| | International, Inter University & Inter School Centers |



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| IIUCNN | <ol style="list-style-type: none"> 1. National Workshop on Hybrids of Nanotubes, Graphene and Dendrimers, Nanotechnology Platforms, April 2013. 2. National Workshop on Advances in Nanoscience and Nanotechnology, March 23, 2013 3. National Workshop on Advances in Hybrid Materials, March 2013. 4. Workshop on HRTEM Imaging, Mahatma Gandhi University, 2012 5. National Workshop on “Synthesis, Characterization and Applications of Nanomaterials”-NWNM- 2010 held during 12-14 January 2010 <p>Sensitization Programmes</p> <ol style="list-style-type: none"> 1. Dr. Habeeb Muhammed MA, (Germany). "Hierarchical Gold-Copper Chalcogenide Core Shell Nanoparticle Clusters with Selectable NIR Metal/Semiconductor Plasmon Resonances".31.10.2016 2. Dr. Shiju Raveendra University of Amsterdam, Netherlands. "Heterogenous catalysis and its Applications".20.10.2016 3. Prof.Dr. Clement Sanchez(University of Pierre and Maria Currie, France Applications of Hydrindmaterials03.10.206 4. Dr. Vivek K Srivastava and Dr. Ganesh C. Basak ,Reliance industries, Vododara, GujaratRecent trends in rubber technology01.10.2016 5. Prof. Dr. Wim Dehaen,University of Leuven, Belgium. "Hyper branched Polymers based on Isatin and Electron Rich Arenes: Synthesis and Applications".25.07.2016 6. Camille Thevenot,University of de Lorraine in Nancy,France,A piezoelectric polymer material P(VDF-TrFE): elaboration, characterization and applications16.07.2016 7. Dr.Kajal Ghosal,AssistantProfessor, Dr. B C Roy |
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| | <p>College of Pharmacy and AHS, Durgapur, India (currently affiliated to CEITEC, MU, Czech Republic)Electrospinning: Can polymeric films be plasticized without Plasticizers”.14.07.2016</p> <p>8. Prof. Dr. Dinesh Kumar Kotnees, Patna“Preferentially fixing nanoclays in the phases of incompatible polymer blend using thermodynamic approach and its effect on physico mechanical properties”08.07.2016</p> <p>9. Dr Nishar Hameed, Swinburne University of Technology, Australia” Carbon Fibre – the Material of the Future”.18.06.2016</p> <p>10. Dr. Sami Hage-Ali ,Associate professor with the micro- nanosystems group (MNS) at Institute Jean Lamour, France"Applications of silicone based elastomers to flexible radio frequency devices and sensors".18.06.2016</p> <p>11. Dr. Rosana Maria Assuncao Birth, Institute of the Federal University of Uberlandia, BrazilPhysico chemical properties of starch NR-blends10.06.2016</p> <p>12. Dr. Daniel Pasquini, Institute of the Federal University of Uberlandia, Brazil Nan crystals from starch and cellulose on 08.06.2016</p> <p>13. Prof. Dr. Zakiah Ahmad(Director, Institute for Infrastructure Engineering and Sustainable Management, Mara) from MalaysiaNew frontiers of material science in civil engineering31.05.2016</p> <p>14. Prof. Dr. Joseph Arul of the University of Laval, Canada Preservation fresh fruits and vegetables01.04.2016</p> <p>15. Prof. Nathalie Gontard (Professor, INRA Research Director, Food & Packaging Scientist) from France, Next generation of packaging to increase full system sustainability.28.03.2016</p> <p>16. Prof. Florian Mormann, MD, PhD, Department of Epileptology, University of Bonn, Germany“The Building Blocks of Memory-The Marilyn Monroe Neuron”19.02.2016</p> |
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| | <p>17. Prof. Dr. Joanna Ewa Izdebska Warsaw University of Technology, Poland Printing On Polymers 08.02.2016</p> <p>18. Prof Francis Lewu, South Africa Crop and medicinal species conservation, production and utilization 20.01.2016</p> <p>19. Dr. Aji.P.Mathew, Professor, Luleå University of Technology, SE 97187, Luleå, Sweden, Nanocellulose Research 12.01.2016</p> <p>20. Dr Apala Majumdar, Associate, Professor (Reader) and EPSRC Career Acceleration Fellow., United Kingdom, Problems in nonlinear elasticity, colloidal systems and nanoparticles systems. 08.12.2015</p> <p>21. Dr. K.I. Suresh, Polymers & Functional Materials Division, CSIR-Indian Institute of Chemical Technology, Hyderabad) on the topic "The Emulsion Polymerization : The Green Approach to Functional Polymers" 01.12.2015</p> <p>22. Dr. Venkata Gopal Reddy Chada Chief Manager-Technology), Asian Paints, Paints and Colours 14.09.2015</p> <p>23. Dr. Gregor Filipič from Slovenia ,Plasma for controllable surface modifications and nanosynthesis, 24.08.2015</p> <p>24. Dr. Vinayan B P, Helmholtz Institute Ulm, Karlsruhe Institute of Technology, Germany Development of suitable electrolyte for metal sulfur battery, fabrication of high capacity and long cyclic stability sulfur electrode materials and different electrochemical phenomenon within this system. 09 .07.2015</p> <p>25. Dr. Jacob John, Impact of Globalization on National and International Affairs. 22.06.2015</p> <p>26. Prof .Vijaya Mohanan Pillai Director, CSIR-CECRI , Central Electrochemical Research Institute, Karaikudi-630003, Tamil Nadu, India , Nanomaterials for Energy Applications 30.04.2015</p> <p>27. Dr. Praveen G. L (University of Kerala) on the topic "Nanocomposites for Biomedical</p> |
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| | Applications"29.04.2015 |
| | 28. Volker Ribitsch (University of Graz. Austria) 21.04.2015 |
| | 29. Mohamed Mehdi CHEHIMI Research Director at French CNRS,Leader of the Surface & Interface research team,Université Paris, France 06.03.2015 |
| | 30. Dr. Maciej Jaroszewski(Head of High Voltage Laboratory,Wroclaw University of Technology, Poland),Impedence Spectroscopy30.01.2015 |
| | 31. Prof. Suryasarathi Bose,(IISC, Bangalore)26.01.2015 |
| | 32. Prof. Benjamin S Hsiao (Department of Chemistry, Stoney Brook University, New York)"Breakthrough Water Purification Technologies based on Nanofibrous Membranes"20.01.2015 |
| | 33. "Prof. (emerit.) Dr. Werner Mormann, Universität Siegen" Ionic liquids and cellulose – a perfect green combination11.12.2014 |
| | 34. AASHISH ROY(Postdoctoral Fellow, Department of Materials EngineeringIndian Institute of Science) Conducting polymers for Sensor applications19.11.2014 |
| | 35. Prof. Renata Dantas, University of Campinas, Sao Paulo, Brazil"Ozonation for water and waste water purification"1.10.2014 |
| | 36. Prof. P.M.G.Nambissan, Saha Institute of Nuclear Physics Kolkata" The Indian legacy of the evolution of science"17.09.2014 |
| | 37. Dr.Rajesh A. Shenoi, University of British Columbia, Vancouver BC, Canada"Designing multifunctional dendritic polymers for macromolecular therapeutics"22.08.2014 |
| | 38. Dr. Suresh.S. Pillai of Environmental Nanotechnology Division, Institute of Technology, Sligo, Ireland,"Nano materials for Environmental Application"13.08.2014 |
| | 39. Dr.T.Sidhu, University of Ontario Institute of |



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| | Technology, Canada, Research Opportunities at University of Ontario Institute of Technology, Canada"31.07.2014 |
| | 40. Dr. Ali Kareem al-lami, Misan University, Iraq "Preparation and Mesomorphic characterization of supramolecular hydrogen bonding dimer liquid crystals"24.07.2014 |
| | 41. Dr. Salim Albukhaty Transfection of NSCs Neural Stem Cells by BDNF gene using Nano Carrier System"22.07.2014 |
| | 42. Dr. Bharath Rajaram –Application Scientist –TA USA Recent Trend in Rheological Characterization using Rheometer & DMA18.07.2014 |
| | 43. Dr. Burkhard Fechner, Coherent GmbH on "Recent trends in Excimer lasers in PLD and Nano applications"15.07.2014 |
| | 44. Dr. Chaitanya Lekshmi Indira, Associate Professor, Department of Chemistry, CMR Institute of Technology, Bangalore, "Nanoscale Heterostructures: Material Design & Functional Property Understanding for Nanoelectronic Applications"20.06.2014 |
| | 45. Dr. Maya Padivattathu Multiscale Material Modelling- Approach and Application07.04.2014 |
| | 46. Dr. Abjith Saha , UGC- DAE Kolkata Centre27.03.2014 |
| | 47. Prof. Tamio Endo Mie University, Japan "Fabrication of La(Ba,Sr)MnO ₃ /ZnO Heterostructures and Electrical Junction/Switching Characteristics"25.03.2014 |
| | 48. Dr. A. V. Ravikumar, Indian Institute of Plasma Research "Applications of Accelerators"14.03.2014 |
| | 49. Dr. Chan Chin Han, University Technology MARA, Malaysia "Natural Rubber based polymer blends: Thermal and Mechanical properties and morphologies."28.02.2014 |
| | 50. Dr. Tamilselvan, Institute of Chemistry, Division of Surface and Interface Science, University of Graz,, |



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| | <p>Austria,“Advanced polysaccharides Composites”25.02.2014</p> <p>51. Dr. Arup Chandra, Apollo Tyres 22.02.2014</p> <p>52. Dr. Suresh. G. Adwani, Associate Director, Center for Composite Materials, University of Delaware, USA,Multi-scale Modeling and Simulation of Composite Manufacturing Processes”28.01.2014</p> <p>53. G S Murthy (GM, Forevision Instruments, Hyderabad) Talk on AFM 21.01.2014</p> <p>54. Mr. Shyam Panamoottil,,Centre for Advanced Composite Materials (CACM), Auckland, New Zealand“Multiscale modelling to predict the failure behaviour of flax-fibre composites from fibre, matrix and interface properties”27.12.2013</p> <p>55. Dr.Nguyen Van Son “Dispersion of nanoparticles in solution”01.08.2013</p> <p>56. A K Sinh, Anton Paar, India "Rheology and its applications"25.06.2013</p> <p>57. Prof. (Dr) C M. Narayan,Professor of Chemical Engineering, National Institute of Technology, Durgapur,India"Biodiesel Synthesis from Micro-Algae oil"22.06.2013</p> <p>58. Dr. Shams Khwaja,Adjunct Professor of Law, Constitutional Law Lab, USA"Discovering a Road Map for Nanotechnology law and Regulation for India"20.06.2013</p> <p>59. Dr. Ramesh,"NMR of Carbon Skeleton"17.06.2013</p> <p>60. Dr.Achutha Prabhu "Irreversible aggregation of patchy colloidal particles:A computer simulation study"19.06.2013</p> <p>61. Dr. Rajan Babu The Ohio State University U S A)“Asymmetric Catalyzed Reactions of Alkenes and Small Ring Compounds”18.05.2013</p> <p>62. Dr. Aji P Mathew,Division of wood and Bionanocomposites, Lulea university, Sweden Bionanocomposites 06.07.2012</p> |
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| IUIC | <ol style="list-style-type: none">1. National Workshop on Frontiers of Spectroscopy and Microscopy-20122. National Workshop on Mass Spectrometry-20133. National Workshop on Mass Spectrometry and Raman Microscopy,NWMR-2015 |
| IUCSSM | <ol style="list-style-type: none">1. International ensemble on science of Music was organized during 23-27 September 2015 at Kottayam2. Arranged an invited talk by G.S. Paul on the topic"Mathematical analysis of Swaras in Octave" on 30-03-2016 |
| AMMRC | <ol style="list-style-type: none">1. National workshop on Fundamentals and applications of Material Science in collaboration with KSCSTE, Trivandrum in March 2016 |
| CHPC | <ol style="list-style-type: none">1. Conducted Computer Training Programme in Linux to teaching and nonteaching staff of the University. The training includes, Ubuntu OS, Writer, Calc and Internet.2. 13 batches with 30 participants each were provided training in computers. |
| IIRBS | <ol style="list-style-type: none">1. Workshop on Main group and Organometallic Chemistry on October 24 – 26,20162. One day International Symposium on Concurrent methodologies in Organic Synthesis - in honour of Prof. Ei-ichi Negishi(2010 Chemistry Nobel Laureate, Purdue University , USA) on 13th February 20163. National Workshop on "NMR Spectroscopy", 10th - 13th September 2014.4. Lecture series on "Liquid Chromatography", 9th - 18th December 2013.5. Workshop on High Performance Liquid Chromatography (HPLC), 4th & 5th November 2013.6. Lecture on "High Performance Liquid chromatography (HPLC),4th - 12th November 2013.7. Workshop on High Performance Liquid Chromatography (HPLC), 30th April – 2nd May |



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| | <p>2013.</p> <ol style="list-style-type: none"> 8. Workshop on "Nuclear Magnetic Resonance: Theory and Application", 24th - 26th January 2013. 9. Lecture on "Boron based organic chemistry", 7th - 19th January 2013. 10. Lecture on "Boron and Gadolinium Neutron Capture Therapy for cancer treatment", 16th-17th December 2012. 11. Lecture on "Organometallic and Bio-inorganic Chemistry", 10th-14th December 2012 12. Lecture on "Structural Topology Optimization with applications in structural engineering and biomechanics", 12th December 2012. 13. Symposium on "Thoughts on Traditional and Genome based Human History" 6th November, 2012. 14. Advanced Materials Characterization Techniques, May 21st - 25th, 2012 15. Seminar on Research and Development in Chemical Process Development, 22nd Sept., 2012 16. Application of Magnetic Resonance Spectroscopy in scientific research., 10th Sept. 2012 17. Seminar on Metal Mediated Organic Synthesis, 4th Sept. 2012 18. Patenting research findings, 10th August., 2012 19. Seminar – A review on Renewable Energy Technologies, 17th July., 2012 20. Talk - Organic Chemistry and Pharmaceutical Industry, 24th April, 2012 21. Seminar on Application of two dimensional NMR in the structural elucidation of biomolecule 22. Summer Workshop on Computational chemistry, May 28th - 31st, 2012 23. Workshop on Advanced Materials Characterization Techniques, 21st - 25th May, 2012 |
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| | 24. Science Academies' Lecture Workshop on Quantum Mechanics, Molecular- Resonance Spectroscopy and Hands-on Experience in Spectroscopy, March 1 – 3, 2012 |
| | 25. English Language Skill Workshop, December 22 – 23, 2011 |
| | 26. Seminar on Genetic Structure of Indian Jewish Diaspora, October 27 – 28, 2011 |

3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?

Erudite Programmes sponsored by Government of Kerala have been a main mode by which the University was able to attract a large number of Nobel laureates and other eminent academics to the University which has resulted in large number of collaborative research in the field of Nanoscience & Nanotechnology, Environmental Sciences, Chemistry, Physics, Biosciences, International Relations and Politics etc. Their visit to the university and interactions with the students, research scholars and faculty have tremendously enriched their research potential.



Details of Nobel Laureates who have visited the University:

| Sl. No | Particulars of the Scholar | Programme Dates |
|--------|---|---|
| 1. | P. Roger Y Tsein Nobel Laureate, University of California, USA | 4 th -6 th January 2010 |
| 2. | Prof. Ferid Murad Nobel Laureate University of Texas, Health Science Centre at Houston, USA | Sep. 6-9, 2010 |
| 3. | Prof. Robert Huber Nobel Laureate, Max- Plank Institute of Biochemistry, Munich, Germany | Oct. 18-23, 2010 |
| 4. | Prof. John Deisen Hofer Nobel Laureate, University of Texas South Western Medical Centre, USA | Dec. 5-10, 2010 |
| 5. | Prof. Harold Kroto Nobel Laureate, Florida State University, Tallahassee Florida, USA | Jan. 3-18. 2011 |
| 6. | Prof. Anthony J Legget, University of Illinois , Urbana-Champaign, USA | Jan. 26-Feb. 1, 2011 |
| 7. | Prof. Ei-ichi Negishi Nobel Laureate, Purdue University, USA | Feb. 13. 2016 |

Details of Other Erudite Scholars:

| Sl. No | Particulars of the Scholar | Programme Dates |
|--------|---|-----------------------|
| 1 | Prof. Michael R Hoffman California Institute of Technology, Pasadena, USA | Feb. 8-22, 2010 |
| 2 | Prof. U.R. Anantha Moorthy Former Vice Chancellor, M.G. University. | Feb. 15-Mar. 14, 2010 |
| 3 | Prof.(Dr.) C. N. R Rao | Apr. 26-28, 2010 |



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| | Jawaharlal Nehru Centre for Scientific Research, Bangalore | |
| 4 | Prof. Gayathri Chakraborty Spivak Columbia University, USA | Mar. 31-Apr. 6, 2010 |
| 5 | Prof. M. S. Valiathan Former Vice Chancellor, Manipal Academy of Higher Education, Manipal, Karnataka | Aug. 15-29, 2010 |
| 6 | Prof. Prasad Polavarappu Department of Chemistry, Vanderbilt University, Nashville, USA | Nov. 21-Dec. 1, 2010 |
| 7 | Prof. Rene Mullar Louis Pasteur University, Strasbourg, France | Oct. 24-Nov. 1, 2010 |
| 8 | Sri. Kumar Sahini Film Director | Oct. 31-Nov. 10, 2010 |
| 9 | Dr. Henry B Kagan Institute de Chimie Moleculaire et des Materiaux d' Orsay, Universite, Paris-Sud, France | Aug. 15-24, 2010 |
| 10 | Prof. J. Belloni University of Parris, France | Sep. 18-Oct. 2, 2010 |
| 11 | Dr. Ashish Mahabal Senior Scientist, California Institute of Technology, USA | Jan. 1-Feb. 3, 2011 |
| 12 | Prof. Wongyoung Choi Pohang University of Science and Technology, Korea | Feb. 5-12, 2011 |
| 13 | Prof. (Dr.) Mark. R. Wiesner Centre for Environmental Implications of Nano Technology (CEINT) Duke University, USA | Feb. 19-26, 2011 |



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|----|---|-------------------------------|
| 14 | Prof. (Dr.) Tiaha Joo Department of Chemistry, Pohang University of Science and Technology, Korea | Feb. 12-19, 2011 |
| 15 | Prof. (Dr.) Yves Grohans LIMATB (Material Engineering) Laboratory Centre de Recherche, rute St Maude Universite de Bretagne Sud, Lorient 56100, France | Mar. 4-12, 2011 |
| 16 | Prof. Uros Cvelber Jozef Stefan Institute, Ljubljana, Slovenia (EU) | Mar. 16-22, 2011 |
| 17 | Prof. Jurgen Piontek Leibniz Institute of Polymer Research Department Polymer Reactions and Blends Hohe Str.6 01069 DRESDEN Germany | Mar. 7-15, 2011 |
| 18 | Prof. Miran Mozetic Head of Department of Surface Engineering, Jozef Stefan Institute, Jamova cesta 39 1000 Ljubljana, Slovenia | Feb. 21-25, 2011 |
| 19 | Prof. Jia Haitao Jinan University, China | Dec. 1, 2010-Jan.31, 2011 |
| 20 | Dr. B. V. R. Tata Light Scattering Studies Section, Condensed Matter Physics Division, Material Science Group Indira Gandhi Centre for Atomic Research, Kalpakkam- 603102, India | Mar. 1-4, 2011 |
| 21 | Prof. Raghavendra Gandagkar Centre for Ecological Sciences, Indian Institute of Science, Bangalore | Dec. 31, 2010-Jan. 7, 2011 |



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| 22 | Prof. May Britt Hagg Norwegian University of Science and Technology, NTNU, Department of Chemical Engineering, Head of Memfo R&D Group | Apr. 3-9, 2011 |
| 23 | Prof. Andrea Schafer Chair of Environmental Engineering School of Engineering Institute for Infrastructure and Environment, University of Edinburgh William Rankine Building, The King's Buildings Edinburgh EH9 3JL, United Kingdom | Oct. 19-28, 2011 |
| 24 | Prof. Yozhizumi Kajii Tokyo Metropolitan University, Japan | Nov. 6-14, 2011 |
| 25 | Prof. Mehmet A Oturan Head, Laboratory of Earth and Environmental Science Marne la-Vallee Paris East University, France | Feb. 13-18, 2012 |
| 26 | Prof Kristopher Mc Neil Institute of Biogeochemistry and Pollutant Dynamics, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland | Jan. 16-21, 2011 |
| 27 | Dr. Madjid Mohseni Scientific Director, RES'EUA Water NET Strategic Network, University of Columbia, Canada | Feb. 5-11, 2012 |
| 28 | Prof. R. Ramraj Director Centre for Photoelectrochemistry, School of Chemistry, Madurai Kamaraj University | Apr. 16-23, 2011 |
| 29 | Dr. Suresh .S. Narine Trent University, Canada | Jan. 8-18, 2012 |



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| 30 | Prof. (Dr.) Santiago Esplugas Director, CEQAP, Chemical Engineering Department, University of Barcelona, Spain | Apr. 9-14, 2012 |
| 31 | Prof. Uday Shankar, Phillips Health Care, | September 25 th 2015- to 27 th 2015. |
| 32 | Dr. Pushpito Ghosh Director, Central Salt & Marine Chemicals, Research Institute (CSIR), Gijubhai, Badheka Marg, Bhavanagar-364002, Gujarat | Jul. 7-Aug. 3, 2012 |
| 33 | Prof. Detlef Bahnemann Institut fuer Technische Chemie Leibniz Universitat Hannover, Callinstrasse 3,D- 30167, Hannover | Oct. 5-10, 2012 |
| 34 | Prof.AjayK.Sood Department of Physics IISC, Bangalore-560012,India | July 21-22, 2011 |
| 35 | Dr.Rameshwar Adhikari Central department of Chemistry, Tribhuvan University, Kathmandu, Nepal | August 9-18, 2011 |
| 36 | Dr.Vijayamohanan K Pillai Central Electrochemical Research Institute, Karaikudi-630006, Tamil Nadu | September 19-22, 2011 |
| 37 | Dr.Baldev Raj Indira Gandhi Centre for Atomic Research Kalpakkam 603102, Tamil Nadu, India | October 28, 2011 |
| 38 | Dr.Dominique Durand Polymers, Colloids, Interfaces UMR CNRS- University of Marine 6120, France | November 2-13, 2011 |
| 39 | Prof.(Dr.) C.N. R Rao Indian Institute of Sciences | January 13-14,2012 |



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| | Bangalore-560012,India | |
| 40 | Prof.SreckoValic Ruder Boskovic Institute Bijenickacesta 54 HR-10000 Zagreb Croatia | January 18-27,2012 |
| 41 | Prof.Abderrahim Boudenne Universite Paris –Est Creteil, CERTES, France | January27-Feb 4, 2012 |
| 42 | Prof. Manfred Stamm Leibniz Institute of Polymer Research Dresden 01069 Dresden, Germany | February13-21, 2012 |
| 43 | Prof. B.A. Wolf Institute of Physical Chemistry, Johannes Gutenberg- University of Mainz, Welder Weg13, Germany | Feb 27-March 11,2012 |
| 44 | Dr.Ashish K Lele National Chemical laboratory, Pune 411008 | September21-27, 2012 |
| 45 | Prof. Suresh Valiyaveetil Department of Chemistry National University of Singapore 3 Science Drive 3 Singapore | October 15- 25, 2012 |
| 46 | Prof. Christophe Sinturel Centre De Recherchesur la MatiereDivisee UMR 6619 CNRS, France | December 6-14, 2012 |
| 47 | Meena Alexander, expatriate writer and Indian English poet | July, 2013 |
| 48 | Helen Dwyer, Irish poet | September, 2014 |
| 49 | Prof.(Dr.) C.N. R. Rao Indian Institute of Sciences Bangalore-560012,India | January 18-21, 2012 |
| 50 | Prof. Samuel Oluwatobi Oluwafemi | November 12 th 2015 – |



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| | Dept. of Applied Chemistry, University of Johannesburg, Doornfontein Campus P.O Box 17011, Doornfontein 2028 | November 28 th 2015. |
| 51 | Prof. Juergen Pionteck Leibniz Institut für Polymerforschung, Dresden e.V. Abt. Funktionale Nanokomposite und Blends Hohe Str. 6 D-01069 Dresden | November 09 th - 18 th November 2015 |
| 52 | Prof. James B Kinchen, University of Wisconsin-Parkside, USA | September 25 th 2015- to 27 th 2015. |
| 53 | Prof. Dileep Karanath, University of Toledo, USA | September 25 th 2015- to 27 th 2015. |
| 54 | Prof. Steven W Hook, Kent State University, USA | February- March 2013 |
| 55 | Prof. TV Paul, McGill University, Canada | 30 December 2015-5 January 2016 |
| 56 | Ambassador R L Bhatia, MEA, GOI | February 2016. |

List of Visiting Professors/Adjunct Faculties:

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| 1. | Meena Alexander, expatriate writer and Indian English poet , July, 2013 |
| 2. | Helen Dwyer, Irish poet, September, 2014 |
| 3. | Sri. Venu Rajamony IFS, senior diplomat in the Ministry of External Affairs, 27-28 February 2015 |
| 4. | Mr. Mani Shankar Aiyar, former Union Minister and Member of Rajya Sabha, 11 September 2013. |
| 5. | Prof. Alain Berthod, Institute des Sciences Analytiques, Université de Lyon – France |
| 6. | Prof. Anil J Elias, (Dept. Of Chemistry - IIT Delhi) - Awarded " INSA teachers awards 2012 " by Indian National Science Academy for excellence in teaching science & inspiring students. |
| 7. | Prof. Bakthan Singaram, Dept of Chemistry and Biochemistry - University of California, California |



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| 8. | Prof. H. B. Khagan, Universite Paris-Sud, Orsay, France |
| 9. | Prof. Narayan S Hosmane, Dept. Of chemistry & Biochemistry - Northern Illinois University, USA |
| 10. | Prof. Vijay A. Singh, National Co-ordinator, Science Olympiads, Homi Bhabha Centre for Science Education, Mumbai |
| 11. | Prof. K. K. Balasubramanian, Professor, IIT Madras |
| 12. | Prof. I. N. N. Namboothiri, Professor, IIT Mumbai |
| 13. | Prof. P. J. Sebastian, Senior Scientist, Energy Research Centre-UNAM, Mexico |
| 14. | Prof. M. S. Gopinathan, Professor, IISER, Trivandrum |
| 15. | Prof. Prasad L Polvarappu, Professor of chemistry - Vanderbilt University, Nashville |
| 16. | Dr. Thomas J Colacot, Research & Development Manager, Homogeneous catalysis - New Jersey, USA) awarded the RSC's Applied Catalysis Award – 2012 |
| 17. | Prof. Hassan Y. AboulEinen, National Research Centre, Cairo, Egypt 1-2-2014 |
| 18. | Prof. S. Chandrasekharan, IISc, Bangalore |
| 19. | Prof. Sankaran Subramanian, Rtd. Professor, IIT Madras |
| 20. | Prof. Radha V. Jayaram, ICT, Mumbai |
| 21. | Prof. Syed Akheel Ahmed, Dean, faculty of science and technology - University of Mysore, Mysore |
| 22. | Prof. K. G. Suresh, Dept. of Physics - IIT Mumbai |
| 23. | Prof. Renato Falcao Dantas, University of Campinas – UNICAMP, Brazil |
| 24. | Dr. Despo Fatta Kassinos, Department of Civil and Environmental Engineering, Nireas International Water Research Centre, University of Cyprus, Nicosia-Cyprus |
| 25. | Dr. Urška Lavrenčič Štangar, University of Nova Gorica, Nova Gorica, Slovenia |
| 26. | Prof. Yoram Oran, Department of Desalination and Water Treatment, Zuckerberg Institute for Water Research, Blaustein Institutes for Desert research, Ben-Gurion University of the Negev, Israel |



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| 27. | Dr. S. Prabhakar, National Centre for Mass Spectrometry, CSIR-IICT, Hyderabad |
| 28. | Dr. Murali Chilakapati, Advanced Centre for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Mumbai |
| 29. | Dr. M. Vairamani, SRM University, Tamil Nadu |
| 30. | Dr. R. Srinivas, National Centre for Mass Spectrometry, CSIR-IICT, Hyderabad |
| 31. | Prof. Athula Attygalle, Stevens Institute of Technology, USA |
| 32. | Dr. Marc J-F Suter, Eawag, Switzerland |
| 33. | Dr. Laurent Debrauwer, Université de Toulouse, France |
| 34. | Prof. Olivier Laprevote, Paris Descartes University, France |
| 35. | Prof. Gawel of Department of Physics, Rzeszow University of Technology, Poland, October 2015 |
| 36. | Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, China served Visiting Scholar at ICCS for 2 weeks during January 2016. |
| 37. | Dr. Srikanth, Peking University, China during November 2015 |

3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.

| Financial Year | Research Projects (Rs in Lakhs) | | Scholarships/ Fellowships (Rs in Lakhs) | |
|----------------|------------------------------------|-------------|--|-------------|
| | Income | Expenditure | Income | Expenditure |
| 2010-11 | 549.50 | 1339.24 | 332.90 | 143.21 |
| 2011-12 | 799.84 | 657.89 | 522.06 | 269.46 |
| 2012-13 | 468.71 | 810.59 | 298.46 | 413.38 |
| 2013-14 | 649.28 | 580.93 | 335.65 | 383.32 |
| 2014-15 | 468.64 | 638.48 | 97.78 | 106.52 |
| 2015-16 | 482.37 | 224.16 | 54.01 | 89.21 |

3.1.8 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.

There is no provision for funds being allocated to affiliated colleges for research in the University budget. However, the University Library has established its Centres in different colleges under its jurisdiction through



which all online journals are available for reference. In addition, all the research facilities in the Statutory Departments and the Inter University/Inter School Centres are available for the smooth research activity of all affiliated research Centres. In addition, collaborative research work among University Statutory departments and the Inter University/Inter School Centres are also promoted in which the guides from affiliated centres and faculty from statutory Departments are the co-guides so as to enable students to have access to facilities in the University Campus. Proposals for joint research projects between University Schools/Centres and affiliated colleges are submitted to funding agencies.

3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the university and other sources.

Yes.

Post Doctoral Fellowships from University Post-Doctoral Fellowship and other funding agencies:

| Sl. No | Name of fellow | Funding Agency & Name of Fellowship | Beneficiary Department |
|--------|---------------------|--|--------------------------------|
| 1. | Dr. Ameer Hassan | UGC- Dr. S. Radhakrishnan Post-Doctoral Fellowship. In Humanities and Social Sciences including Languages | School of Behavioural Sciences |
| 2. | Dr. Aju.K.Asok | Post-Doctoral Fellowship offered by Kerala State Council on Science Technology and Environment, Thiruvananthapuram, Kerala | School of Biosciences |
| 3. | Dr. Amith | Post-Doctoral Fellowship offered by Kerala State Council on Science Technology and Environment, Thiruvananthapuram, Kerala | |
| 4. | Dr. Sharrel Rebello | Post-Doctoral fellowship From DST, SERB | |
| 5. | Dr Bindu Panampalli | DST Fast Track Young Scientist Fellowship | School of Chemical Sciences |
| 6. | Dr. Sooraj MP | University Post-Doctoral Fellowship | |



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| 7. | Dr. Proshenjith Saha | UGC Dr. D.S. Kothari Post-Doctoral Fellowship | |
| 8. | Dr. S. Manna | | |
| 9. | Dr. Sravanthi L. | | |
| 10. | Dr. Asha Krishnan | | |
| 11. | Dr. Dhanya .K.R | University Post-Doctoral Fellowship | |
| 12. | Dr. Jiya Jose | UGC Dr. D.S. Kothari Post-Doctoral Fellowship | International & Inter University Centre for Nano Science and Nano Technology |
| 13. | Dr.Renji R.Reghu | | |
| 14. | Dr. Praveen. G | | |
| 15. | Dr. Obey Koshy | | |
| 16. | Dr. Aparna Thankappan | | |
| 17. | Dr. Angulekshmi N | | |
| 18. | Dr. Kajal Ghosh | | |
| 19. | Dr. Jayalakshmi | | |
| 20. | Dr. Hanna J Maria | | |
| 21. | Dr. Sreekanth V | | |
| 22. | Dr. Gioble George | | |
| 23. | Dr. Mahesh V | | |
| 24. | Dr. Smitha Shashi | | |
| 25. | Dr. Sanal P S | Post-Doctoral fellowship From DST,SERB | |
| 26. | Dr. Ajithkumar M P | Post-Doctoral Fellowship offered by Kerala State Council on Science Technology and Environment, Thiruvananthapuram, Kerala | |
| 27. | Dr. Ranjini Radhakrishnan | UGC Dr.D.S. Kothari Post-Doctoral Fellowship | School of Pure and Applied Physics |
| 28. | Dr. Anoop Chandran | | |
| 29. | Dr.Gejo | | |
| 30. | Dr. Nisha Velappan Nair | UGC- Dr. S. Radhakrishnan Post-Doctoral Fellowship. In Humanities and Social Sciences including Languages | School of Gandhian Thought and Development Studies |



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| 31. | Dr. Anju Lis Kurian | UGC Post-Doctoral Fellowship | School of International Relations and Politics |
| 32. | Dr. Alex Mathew | Post-Doctoral Fellowship from ICHR | School of Social Sciences |
| 33. | Dr. Harsha HT | UGC- Post-Doctoral Fellowship | ACESSD |
| 34. | Dr. Baburaj | Post-Doctoral fellowship From DST-PURSE | IUIIC |
| 35. | Dr. Krishnaraj K.U | Post-Doctoral fellowship From DST-PURSE | |
| 36. | Dr. Jinu John | Post-Doctoral fellowship From DST-PURSE | |

3.1.10 What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?

Sabbatical Leave

| Sl. No | Name | School/Centre | Period |
|--------|------------------------|--|---------------------------|
| 1 | Dr Razeena Padmam | Behavioural Sciences | 20.08.2012- 31.07.2013 |
| 2 | Dr M S John | Gandhian Thoughts and Developmental Studies | 11.02.2013- 10.02.2014 |
| 3 | Dr. K. Sreeranganadhan | Management and Business studies | 20.08.2012- 31.07.2013 |

Research Awards

| Sl.No | Name | School/Centre | Period | From |
|-------|------------------|--------------------------------|---------|------------|
| 1 | Dr Saji Mathew | School of Letters | 2 years | 22.01.2014 |
| 2 | Dr. Aju K N | School of Letters | 3 Years | 01-03-2012 |
| 3 | Dr. Raju Francis | School of Chemical Sciences | 2 years | 15.02.2012 |

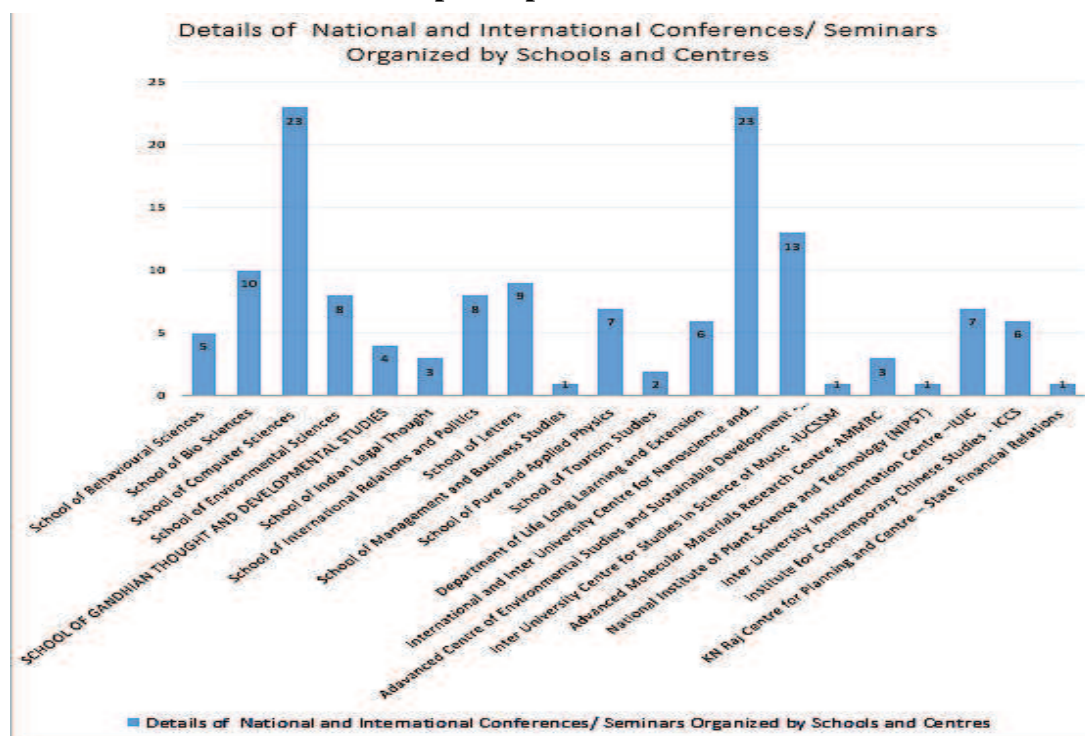
Post Doctoral Fellowship

| Sl.No | Name | School/Centre | Period | From |
|-------|----------|-----------------------------|---------|------------|
| 1 | Dr. Anas | School of Chemical Sciences | 2 years | 01.04.2011 |

Arctic Expedition

| Sl.No | Name | School/Centre | Period |
|-------|------------------|----------------------------------|--------------------------|
| 1 | Dr. Mahesh Mohan | School of Environmental Sciences | 29.07.2013 to 08.09.2013 |
| | | | 20.06.2015 to 28.07.2015 |
| | | | 29.09.2016 to 31.10.2016 |

3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.





| Sl. No | Seminar/Conferences | Funding agency | Outstanding Participants |
|---------------------------------------|--|--|--|
| School of Behavioural Sciences | | | |
| 1. | International Conference on Research Methodology and Scientific Writing. 20-22, December, 2013. (Convenor – Mr. Rajesh) | Confederation of Epidemiological Associations | Dr. Indrajith Banerjee Dr. Padam Simkada Dr. Brijesh Sathian Dr Gamini Premadasa Dr Nishida Chandrasekharan |
| 2. | National Conference on Models of Best Practice in Empowerment of Persons with Disabilities. 16-17, October 2015. (Convenor – Dr. P. T. Baburaj) | National Institute for the Empowerment of Persons with Multiple Disabilities, Chennai. | Dr. Himanshu Das Dr. Rajesh Ramachandran Dr. Jayaraj N. Dr. Neeraja Dr. Dr. K. Balabhaskar |
| 3. | National Seminar on Management of Learning Disabilities. 22.03.2011. (Convenor – Mr. Rajesh E.) | M G University | Dr. Sany Varghese Dr. V. V. Joseph |
| 4. | Seminar on National Trust Act, 1999 and Legal Guardianship for the parents of individuals with Autism Cerebral palsy mental retardation and multiple disabilities, 15.12.2014 (Convener Dr. P. S. Sukumaran) | M G University | Sri.Ajithkumar, IAS Sri.Sureshkumar Sri.P..B.George Sri.Mohandas |
| 5. | National Conference on Models of Best Practice in Empowerment of Persons with Disabilities. 16-17, October 2015. (Convenor – Dr. P. T. Baburaj) | National Institute for the Empowerment of Persons with Multiple Disabilities, Chennai. | Dr. Himanshu Das Dr. Rajesh Ramachandran Dr. Jayaraj N. Dr. Neeraja Dr. Dr. K. Balabhaskar |
| 6. | One day Seminar on “Inclusion Matters: Access and Empowerment of People with all Disabilities”. 03.12.2015 (IUCDS). (Convenor – Dr. P. T. Baburaj) | M G University | Mr. Anish Mohan Mr. Mathew Kanamala |



| School of Bio Sciences | | | |
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| 7. | Two day seminar on “Prevention & management of lifestyle diseases” jointly organized with School of Biosciences & Department of student services (DSS) of M.G.University on 17 th & 18 th March, 2016 | DSS –M.G University | Dr Thomas Varghese Oncology Surgeon, Lakeshore Hospital Dr Vidhyadharan DMO, Kottayam Medical College |
| 8. | One day seminar “Cyber Space & Social Responsibility” jointly organized with School of Biosciences & PTA School of Biosciences on 28 th December 2015 | PTA School of Biosciences | Sri Ajith. DYSP, Kottayam Dr Sunil Cyber Forensic Lab Thiruvananthapuram |
| 9. | Seminar on “Social Responsibility in Animal Birth Control” jointly organized with School of Biosciences & Indian Veterinary Association-Kerala in connection with World Spay Day on 18 th February 2016 | M.G.University | Dr K J Kishore Kumar Vet. Surgeon, Animal Birth Control Division Vet. Public Health Centre, Cochin |
| 10. | Seminar on recent trends in medical molecular biology 03/07/2015. | M.G University | Dr.Uma Shankar and Dr.Keith Davis. Department of Anatomy and cell biology. Indiana University School of medicine |
| 11. | Seminar on Recent Trends in Medical Molecular Biology 03/07/2015 Delivered Talk By Uma Shankar and Dr.Keith | M.G University | |
| 12. | State level seminar on “Stem Cell Therapy and Cancer” jointly organized by Post Graduate Department of Biotechnology SASSNDP YOGAM College Konni and School of Biosciences M.G University on 14 th February 2014.CO-CONVENOR | M.G University | |



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| | Dr.Keerthi.T.R | | |
| 13. | Institutional level two day seminar on “Prevention & management of lifestyle diseases” jointly organized with School of Biosciences & Department of student services (DSS) of M.G.University on 17 th & 18 th March, 2016.Convenor- Dr.M.S.Latha | M.G University | |
| 14. | Seminar on “Cyber Space & Social Responsibility” jointly organized with School of Biosciences & PTA School of Biosciences on 28 th December 2015 | M.G University | |
| 15. | Seminar on “Social responsibility in animal birth control” jointly organized with School of Biosciences & Indian Veterinary Association-Kerala in connection with World Spay Day on 18 th February 2016 | M.G University | |
| School of Computer Sciences | | | |
| 16. | National Conference on “Computing and Communication” (NCCC 2011) May 26-27, 2011 | M.G.University | Prof. (Dr.) S.K. Sinha, CEDT, Indian Institute of Science, Bangalore Prof. (Dr.) Paulose Jacob, , Cochin university of Science and Technology, Kerala |
| 17. | Computing Paradigms and Bio-informatics (CPBI 2012) January, 2012 | M.G.University | Mr. Mahesh C., FISAT, Angamaly. Prof. (Dr.) Achuth Sankar S. Nair, University of Kerala |
| 18. | National E-conference organized by Amal Jyothi College of Engineering and Technology from 28.01.2016 to 30.01.2016. | KSCSTE in association with ISTE Kerala Section | Dr.Mukta Atrey,IIT Mumbai |
| 19. | National Seminar on Computing and Communication at School of Computer Sciences, December 2013 | M.G.University | Dr. K.P. Soman, , Amrita Vishwa Vidyapeetham, Coimbatore Sri. Krishnan Chittoor, S/W Developer, Microsoft India |



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| 20. | Seminar on “ Systems Programming ” on 21.07.2014. | M.G.University | Dr Manjaiah, Professor, Dept. Of Studies and Research in Computer Science, Mangalore University |
| 21. | “ Steps 2 Research ” at School of Computer Sciences during 19 th -20 th Sept 2014. | M.G.University | Prof Dr.Sabu Thomas, Director, IIUCNN, M.G.University |
| 22. | International Seminar on “ Talking Like Humans ” on 6 th December, 2014. | M.G.University | Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland |
| 23. | Seminar on “ Image Processing Technologies for Defence Applications ” by on 4.12.2015. | M.G.University | Dr. Lekshmi S, Scientist , National Physical and Oceanographic Laboratory (NPOL) |
| 24. | Seminar on “ Cyber Crimes ”, Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010. | | |
| 25. | The national level seminar by Ms. Easwari PV, Senior consultant , Siemens Information Systems Limited, Bangalore, Dr. Achuth Sankar S Nair, Hon. Director, Centre for Bio-Informatics, Dr. K S M Panicker, Dean, FISAT in December 2011. | | |
| 26. | Seminar on “ Best Programming Practices ”, January 20, 2011. | M.G.University | Dr. Ashish Mahabal, California Institute of Technology (Caltech) USA |
| 27. | National Conference on “ Computing and Communication (NCCC 2011) ”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011. | M.G.University | Prof. (Dr.) S.K. Sinha, CEDT, Indian Institute of Science, Bangalore. Prof. (Dr.) Achuth Sankar S. Nair, University of Kerala. |
| 28. | The national level seminar - December 2011. | M.G.University | Ms. Easwari PV, Information Systems Limited, Bangalore, |



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| | | | D. Achuth Sankar S Nair, FISAT |
| 29. | Conference on “Computing Paradigms and Bio-informatics” (CPBI 2012), January, 2012. | M.G.University | Prof. (Dr.) Achuth Sankar S. Nair, University of Kerala. Mahesh C., FISAT, Angamaly. Dr. Radhakrishnan E K, Mahatma Gandhi University. |
| 30. | Seminar on “Computational Intelligence, Robotics and Autonomous Systems”, January 3rd, 2012. | M.G.University | Dr. Prahlad Vadakkeppat, National University of Singapore |
| 31. | Seminar on “Research Topics for M Tech Dissertation” at School of Computer Sciences by Dr Madhu S Nair, Asst.Professor, Dept. of Computer Science, University of Kerala on 18.09.2014. | M.G.University | |
| 32. | National level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012. | M.G.University | Mr. Mahesh, FISAT, Cochin. |
| 33. | The National E-seminar “Steps2Research” at School of Computer Sciences (nodal centre) during 19-20 Sept 2014. | M.G.University | Prof.Dr.D.B. Phatak,IIT Bombay Prof.Dr. Kannan Moudgalya,IIT Bombay Mr.Vijayaraghavan(Former CEO Techno Park ,Member- State Planning Board Kerala Dr.Sahana Murthy, IIT Bombay |
| 34. | International Seminar on “Talking Like Humans” 6 th December 2014. | M.G.University | Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland. |



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| 35. | Seminar on “Image Processing Technologies for Defence Applications” on 4.12.2015. | M.G.University | Dr. Lekshmi S, Scientist , NPOL |
| 36. | Seminar on “Research Topics for M Tech Dissertation” at School of Computer Sciences by Dr Madhu S Nair, Asst.Professor, Dept. of Computer Science, University of Kerala on 18.09.2014. | M.G.University | |
| 37. | National Conference on Research in Emerging Areas (NACORE 2016), a National e-conference during 28.01.2016to 30.01.2016. | M.G.University | |
| 38. | Seminar on “Remoteness Function on Median Graphs”, 2nd Dec 2016, by Dr. Ajitha R. S., Post Doctoral Fellow, University of Kerala. | M.G.University | |
| School of Environmental Sciences | | | |
| 39. | LAKE-2012, National Conference on Conservation and Management of Wetland Ecosystems conducted at School of Environmental Sciences, MG University, Kottayam during November 6-8, 2012. | DST, KSCSTE, MG University, Kerala state Biodiversity Board | Dr.T.V.Ramachandra, Indian Institute of Science, Bangalore; Dr. Subash Chandran, Indian Institute of Science, Bangalore; Dr Ligi Philip, Indian Institute of Technology,Madras , Dr.V.N.Rajasekaran Pillai, Executive Vice-President, KSCSTE, Thiruvananthapuram |
| 40. | International conference on Advanced Oxidation Processes (AOP2012) Oct.5-8, 2012, Kottayam | BRNS, KSCSTE, DRDO, ISRO | Adriana Zaleska , Gdansk University of Technology, Poland Bahneman Detlef , Gottfried Wilhelm Leibniz Universitaet Hannover, GERMANY Chantal Houee |



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| | | | Levin, LCP, Orsay Cedex Choi Wonyong , Pohang University of Science and Technology (POSTECH), South Korea Christophe Colbeau-Justin , Université Paris-Sud, France |
| 41. | National Seminar on Sustainable Development, conducted at School of Environmental Sciences, MG University, Kottayam 2012. | MG University | Dr.T.V.Ramachandra, Indian Institute of Science, Bangalore Dr. Shibu K. Mani , Tata Institute of Social Science , Mumbai Dr. Sulthan AhmedIsmail , EcoScience, Chennai |
| 42. | National Conference on Heavy Metals in the Environment' November 28-29, 2013, School of Environmental Sciences, MGU. | DoECC, MG University | Dr. MNV Prasad , Hyderabad University Dr. Nandita Singh , NBGRI, Lucknow Dr. Dinesh Mohan , JNU Dr.V.Subramaniam , JNU |
| 43. | International Conference on Frontiers of Mass Spectrometry- ICMS 2013 September 6-9, 2013 | BRNS, ISRO, DRDO, DST | R. Srinivas , National Centre for Mass Spectrometry, Hyderabad, India Olivier Laprevote , Paris Descartes University, France S. K. Raza , Institute of Pesticide Formulation Technology, India Gopal Vaidyanathan , Waters India Pvt. Ltd., India Venkateswarlu Panchagnula , National Chemical Laboratory (CSIR – NCL), Pune |
| 44. | National Conference heavy Metals in the Environment' during November 28-29, 2013, School of Environmental Sciences, MGU | DoECC, MG University | Dr. MNV Prasad, Hyderabad University Dr. Nandita Singh, NBGRI, Lucknow Dr. Dinesh Mohan, JNU Dr.V.Subramaniam, JNU |



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| 45. | International Conference on Advanced Oxidation Processes (AOP 2014), September 25-28, 2014 Munnar | DST, BRNS, DRDO, ISRO | Michael R. Hoffmann , California Institute of Technology, USA L. Gomathi Devi , Bangalore University, India Mehmet A. Oturan , Universite Paris-Est, Marne-la-Vallee, France Collin G. Joseph , Universiti Malaysia Sabah, Malaysia Anju Chadha , IIT, Madras, India |
| 46. | International Conference on Frontiers of Mass spectrometry, December 11-14, 2015. Kottayam | DST | Marc J-F Suter, Eawag , Switzerland Michael W. Linscheid, Humboldt-Universitaet zu Berlin, Germany Athula Attygalle , Stevens Institute of Technology, USA Evgeny Nikolaev , Physics Russian Academy of Sciences, Russia Achille Capiello , Università di Urbino, Italia Olivier Laprevote , Paris Descartes University, France |
| School of Gandhian Thought and Developmental Studies | | | |
| 47. | National Seminar on "Ageing Gracefully: A multi – Disciplinary Perspective" (2014) | ICSSR, New Delhi | Dr. Anand P Ambali, Professor of Medicine (Specialised in BLDE University, Vijayapur, Karnataka. Rev. Fr. Romance Antony, Executive Director, Society for Empowering Action, Kerala. Prof. John Kattakayam, Prof. Emeritus, Department of Sociology, University of Kerala. |
| 48. | Two Day's National Seminar on "Understanding the Tribal Life in India: Issues, | ICHR | Dr. B. Eqbal, Former V.C, Kerala University. |



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| | Challenges and Alternate Approaches” on 10 th and 11 th of October 2013 | | |
| 49. | One Day National Conference on Yoga in association with the inauguration of the Centre for Yoga and Naturopathy on 12.01.2016. | MG university | Shri.Subodh Tiwary, Kaivalyadhama Institute of Yoga , Mumbai. Dr.Vinod Kool, New York University of Polytechnic Institute. |
| 50. | Two days national seminar on relevance of Yoga in Modern life on 18.03.2016 & 19.03.2016. | MG university | Sri. Hira Ratan Manek, Dr. T.V.Padmanabhan, |
| School of Indian Legal Thought | | | |
| 51. | National Seminar on Rights of Children ” held on 23 rd , 24 th and 25 th Feb 2012. | M.G.University | Prof.N.K.Jayakumar Vice Chancellor,National Law University,Kochi. |
| 52. | National Seminar on Family as an Institution: Modern Realities and Trends in Law from 28 th to 2 nd March 2013. | M.G.University | Prof.Dr.Y.C.RamaSubbaya h, Pro. Vice Chancellor,Shro Acharaya Nagarjuna University,Gundur |
| 53. | Two Day National Seminar on the topic of Farmers Right in the Liberalised Economy : Perspectives and Trends was conducted during 27 th and 28 th March 2015. | M.G.University | Justice C.N.Ramachandran Nair Retd. Judge High Court Kerala &Chairman Dam Safety Authority, India. |
| School of International Relations and Politics | | | |
| 54. | International conference on The Rise of China: Policy Parameter and Prospects, 1-3 November 2012 | M.G.University Institute of Chinese Studies, New Delhi. | His Excellency Sri. Niu Qingbao, ConsulGeneral, Consulate of China, Mumbai Prof. Alka Acharya, Director, Institute of Chinese Studies, New Delhi Prof. Madhu Bhalla, Delhi University |
| 55. | International conference on The Arab World; March Towards Democracy, 4-5 February 2013 | M.G.University Minstry of Exernal Affairs, GOI. Indian Council of World Affairs | Sri. Ranjan Mathai, Foreign Secretary of India, Consul General of Turkey in Mumbai. Mrs. Ceylan Ozen Erisen, Prof. Tim Niblock, University of Exeter, UK, Prof. Siddharth |



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| | | KSHEC, Trhiruvanathapuram. | Mallavarapu, South Asian University, Dr. El Sayed Mekkawi, Minufyia University, Egypt, Sri. Kim Jinwoog, Korea Research Institute for Military Affairs, Sri. John Cherian , Frontline. |
| 56. | South Asian regional conference on Engaging South Asia: Challenges and Opportunities of New Diplomacy, 27-28 th March 2014 | M.G.University KSHEC, Trhiruvanathapuram. | Ambassador K. P. Fabian Prof. V. Suryanarayan, former National Security Advisory Board Member |
| 57. | Colloquium on Travails of Political Transition in Iraq and Egypt, 27 th June 2014 | M.G.University | Prof Ninan Koshy, Prof AK Ramakrishnan, JNU |
| 58. | National seminar on Understanding China, 27-28 February 2015 | M.G.University | Mr. Venu R. senior diplomat in the Ministry of External Affairs and currently Press Secretary to the President of India, Prof. Madhu Bhalla (Delhi University), Sri. Murali Nair (former Consul of India, China) |
| 59. | Conference on Engaging Diaspora: Challenges and Opportunities, 23-24 March 2015 | M.G.University KSHEC, Trhiruvanathapuram. | Ambassador Ishrat Aziz, Ambassador R. Dayakar, Dr. Mao Yue, Director, South Asia Research Centre for China, Mr. Velupillai Kuhanendran, Director, Global Tamil Forum |
| 60. | International seminar on Understanding Contemporary India, 14-15 January, 2016-08-12 | M.G.University | Dr. T.V. Paul, Professor of International Relations, McGill University, Canada, Dr. Imtiaz Ahmed, Executive Director, Regional Centre for Strategic Studies, Sri Lanka, Dr. Shibashis Chatterjee, Professor of IR, Jadavpur University |
| 61. | National conference on Public Policy and Governance in India and China, 21-22 March 2016 | M.G.University Chennai Center for China Studies. | D. S. Rajan, Distinguished Fellow of Chennai Centre for China Studies Prof. V. Suryanarayan, former Member, National Security Advisory Board , Govt of India |



| School of Letters | | | |
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| 62. | One day seminar on “Vision and Experience” 29 March 2012 | M.G.University | Shri Kumar Sahini National Award Winner for Direction |
| 63. | Seminar on Computational Practices in association with Akshara, December, 2012 | M.G.University | Prof. B.Iqbal Former Vice Chancellor,Kerala University |
| 64. | Translator’s Orientation Programme from 13 to 16 February 2013 | MG University, CIIL Mysore | |
| 65. | National Seminar on Indian Cinema: A Century in Perspective, 21-23 March 2013 | M.G.University | Dr. Hariharan, eminent film maker and critic in Tamil Nadu |
| 66. | National Seminar on Comparative Literature” from 25--27 March 2014 | M.G.University | Prof.N.V.Narayanan, Calicut University. |
| 67. | Seminar on Publishing 12 January 2015 | MG University, National Book Trust, New Delhi | |
| 68. | National Seminar on “Re-Reading Padmarajan” in January 2016 | M.G.University | Shri.Joshy Mathew,Former Kerala Sahithya Academy Vice President |
| 69. | National Seminar on <i>Thirukkural</i> in March 2016 | M.G.University | Prof Nachimuthu Internationally Relevant Linguistics |
| 70. | National Conference on The Hebrew Question in the Italian Renaissancein April 2016 | M.G.University | Prof.Daniel Stein Kokin Jewish Literature and Culture ,University Greifswald,Germany |
| School of Management and Business Studies | | | |
| 71. | National Conference on Business Models (NCBM), February 2016 | M.G.University | Dr. Javed Hassan,Nest Group Dr.K.C.Chandrashekar Nair Consultant KIDCO Dr T.Ashokan P.V.C Kannur University Shri P.Vinod Manger RBI |
| School of Pure and Applied Physics | | | |
| 72. | National seminar on 100 years of crystallography, 2013, SPAP Mahatma Gandhi University, Kottayam. | M.G.University | Dr.S.Karthikeyan, IMTECH,Chandigarh |



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| 73. | International year of Crystallography 2014 | KSCSTE | Dr.M.R.N Murthy,IISC Bangalore |
| 74. | National seminar on Photonics,MGU June 26 th (2014) | M.G.University | Dr Reji Philip,Raman Research Institute ,Bangalore |
| 75. | National Seminar on Advanced Materials, SPAP,M.G. University, January 19-20 th , 2012. Number of Participants – 75 | M.G.University | Dr Santhosh Kumar,IIT Chennai |
| 76. | International Conference on Plasma & Nanotechnology and 29th National Symposium on Plasma Science & Technology 8-11 th Dec 2014 (PLASMA-2014) | M.G.University | Ashish Vyas, IIT Delhi |
| 77. | Seminar on “The Hunt for the Blue LED”-SPAP, 14, October, 2015 | M.G.University | Dr Reji Philip,Raman Research Institute ,Bangalore |
| 78. | Seminar on Piezoelectric Thin Films – Influence of film texture for MEMS. SPAP, 18 June 2015. | M.G.University | Dr B.Premlal,U.K |
| School of Tourism Studies | | | |
| 79. | Two day National Level Seminar on Research Methodology and SPSS software in May 2016 | M.G.University | Dr. B. George and Dr. S. Pushparaj, Associate Professors, Madurai Kamaraj University and Dr. Cecil Dalston, Associate Professor, Presidency College Chennai |
| 80. | One day Seminar on ‘Literary Tourism’ with Darsana Academy and DTPC – Kottayam | M.G.University | Mr. U.V.Jose, Director, Dept of Tourism |
| Department of Life Long Learning and Extension | | | |
| 81. | Four day Seminar on Organic Farming 31 Jan to 3 Feb, 2013. | M.G.university | K.V.Dayal,Famous Organic farming expert |
| 82. | One Day Seminar on Organic Farming-16-10-2014 | M.G.University | K.V.Dayal,Famous Organic farming expert |



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| 83. | The International Seminar, Theme-“EXTENSION: THE THIRD DIMENSION OF EDUCATION” February 26-28, 2016 Venue:-Marian College,Kuttikkanam | M.G.University | |
| 84. | Two Day National Seminar on Relevance of Yoga in Modern Life 18 th and 19 th March 2016 | M.G.University | Hira rattan Manek,famous sun gazing expert |
| 85. | National Seminar on the Trends and Developments in the Education of Children with Learning Disabilities | M.G.University | Himanshu Tripathi |
| 86. | National Seminar on Blood and Organ Donation- Scientific and Motivational Aspects -5 th to 7 th October 2016. | M.G.University | |
| International and Inter University Centre for Nanoscience and Nanotechnology-IIUCNN | | | |
| 87. | International Conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Application (ICM 2016): 13-15, May 2016 | University,DST New Delhi,KSCSTE Thiruvant-hapuram | Dr. Galder Kortaberria Basque Country University, Donostia, Spain. Dr. Sunilkumar PN University of Regensburg, Germany Prof. Jana Rieger University of Alberta, Canada Prof. Erhan Piskin Hacettepe University |
| 88. | Fourth International Conference on Nanomedicine and Tissue Engineering (ICNT 2016) 12-14 August 2016 | ICMR,KSCSTE Thiruvanthapuram | Abdeen Mustafa Omer, UK Devika Chithrani, Canada Jagat Kanwar, AUSTRALIA Xiaohong Yang , China Madhavan Nair, USA |
| 89. | First International Conference on Advanced Materials for Power Engineering (ICAMPE 2015) : 11-13 December, 2015 | DRDO, New Delhi DST, New Delhi | Dr. Cemal Basaran, State University of New York at Buffalo, New York, USA Dr. Matej JERGEL Slovak Academy of |



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| | | | Sciences Bratislava, Slovak Republic Prof. Douglas B. Chrisey Tulane University New Orleans, USA |
| 90. | International Conference on Nanostructured Polymeric Materials (ICNPM 2015) : 13-15 November, 2015 | ICMR, New Delhi KSCSTE, Trivandrum | Prof. Samy Remita (Mr.) Université Paris-Sud, Orsay, France Dr. Naved I. Malek Universidade De Sao Paulo Brazil Prof. Emmanuel Rotimi |
| 91. | World Congress on Microscopy (WCM 2015): 9-11 October, 2015 | INSA, New Delhi University, DST New Delhi ,KSCSTE Thiruvanthapuram | Prof. Ludek Frank, Ústav přístrojové techniky Czech Republic Dr. Orsolya Kantor Simmelweis University, Hungary |
| 92. | Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015 | University, DRDO ,KSCSTE Thiruvanthapuram | Dr. Chantara Thevy Ratnam, Malaysian Nuclear agency Selangor DE, Malaysia Prof. Marcos Lopes Dias Universidade Federal do Rio de Janeiro-Brasil Dr. Jonathan Lao Laboratoire de Physique Corpusculaire, CNRS/IN2P3, France |
| 93. | Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014 | DST, New Delhi | Dr. Adel Najar Nippon Telegraph and Telephone Corporation (NTT) Kanagawa Japan Prof. Jose Rajan, Ph.D. Univ Malaysia Pahang, Malaysia Ogun State, Nigeria |
| 94. | International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014 | University, DST New Delhi ,KSCSTE Thiruvanthapuram | Dr. Greg Griffin RMIT University Melbourne, Australia Prof. Dr. Gerhard Eder Johannes Kepler University |
| 95. | First World Conference on Fracture and Damage Mechanics (FRACTURE | University, INSA New Delhi, KSCSTE Thiruvanthapuram | Arun Raj LaVision GmbH, Goettingen, Germany |



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| | 2014): 9-11 August 2014 | | Ramdane Boukellif Universität Kassel Kassel, Germany Ryuichiro Ebara , Fukuoka University, Japan Prof. Masahiro Endo, |
| 96. | Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014 | CSIR, New Delhi DST, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Prof. Vinicius Guilherme Celante Instituto Federal do Espírito Santo - IFES - Campus Aracruz, Brazil. Dr. Eng. Maria Concetta Tomei Monterotondo Stazione, Italy Tomoko Akai |
| 97. | Seminar on Polymers and Environment, 4 th September 2013 | M.G.University USIEF | Pro Vice Chancellor M.G University Cordinator USIEF, Chennai |
| 98. | International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013 | CSIR, New Delhi DST, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Dr Ashu Bansal University of St Andrews, UK Prof. Juozas Vidas Gražulevičius Kaunas University of Technology, Lithuania Prof. Dr. Baki Hazer Bulent Ecevit University, Zonguldak, Turkey Prof. Dr. Gerhard Wenz Campus Saarbrücken, |
| 99. | Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013 | CSIR, New Delhi DRDO, New Delhi DST, New Delhi ICMR, New Delhi INSA, New Delhi | Jie Weng Jiaotong University, PR China Charlotte A. E. Hauser Institute of Bioengineering and Nanotechnology, Singapore Lindy Fitzgerald The Univ. of Western Australia Dr. Samarendra Maji Ghent, Belgium |
| 100. | First International Conference on Advanced Nanocomposites for Construction Materials (ICNC 2013) 12-14 March | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Mahmoud Reda Taha, Mexico Firat University, Turkey A Jindrich M., Czech Republic |



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| | 2013 | | Dimitris Karamanis, Greece Federica Bondioli, Italy MirhoseiniSarejam, Iran Akira Otsuki, Australia |
| 101. | The India-Israel Meeting On Material Science And Nanoscience, (IIMMN-2013) , Mahatma Gandhi University, Kottayam, Kerala, India 31 st January to 1 st February 2013 | CSIR, New Delhi DRDO New Delhi KSCSTE, Trivandrum | Gary Hodes,Israel David Cahen,Israel Leeor Kronik,Israel Rafal Klajn,Israel Yehiam Prior,Israel Ernesto Joselevich,Israel Gitti Frey,Israel |
| 102. | Second International Conference on Nanomaterials - Synthesis, Characterization and Applications (ICN – 2012) 13-15 January 2012 | DST, New Delhi ICMR, KSCSTE, Trivandrum | Dr. Baidakova Marina Vladimirovna ,Russia Dr Guryanova Natalia Ivanovna Russia Dr Yury S. Nechaev RUSSIA Dr Prof. Petr A. Purtov Russia |
| 103. | Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012. | CSIR, New Delhi DBT, New Delhi DRDO, New Delhi DST, New Delhi INSA, New Delhi | Dr. Elliot Paul Gilbert Project Leader, Food Science Australia Mohan Trada University of Southern Queensland, Australia Anand Gadre University of California, Merced Prof.Chengbo Shandong University |
| 104. | First Indo- US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31st March – 2nd April 2012, Kottayam, Kerala, INDIA | CSIR, New Delhi DRDO, New Delhi ICMR, New Delhi KSCSTE, Trivandrum | Dr. LIU ZhiGang School of Mechanical Engineering, Jiangnan University CHINA Prof. Dr. LU-Li Xin School of Mechanical Engineering, Jiangsu Province, CHINA |
| 105. | Third International Multicomponent Polymer Conference (IMPC-2012) 23-25 March-2012, Conducted by Centre for Nanoscience, M. G. | DST, New Delhi ICMR,KSCSTE,M.G.Uni versity | Prof Patrick Sharrock University Paul Sabatier Castres Cedex, France Dr. Leandro Ludueña National University of Mar del Plata, Argentina |



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| | University, Kerala, INDIA | | |
| 106. | (PPOMP 2011) First International Conference on Plasma Processing of Organic Materials and Polymers 25-27 November 2011, Kottayam, Kerala, India | BRNS, Mumbai CSIR, New Delhi DST, New Delhi ISRO, Bangalore | Dr. Frederic Thevenet Dpt. Chimie & Environnement Ecole des Mines, Douai Poncin-Epaillard Fabienne Université de Rouen, Mont Saint Aignan Cedex, France Miran Mozetic Jozef Stefan Institute, Slovenia Miguel Manso Silván |
| 107. | ICNC-2011- International Conference on Composites and Nanocomposites-2011 Conducted by Centre for Nanoscience, M. G. University, Kerala, INDIA | CSIR, New Delhi DST, New Delhi KSCSTE, Trivandrum | Dr. Andrés E. Sotelo Mieg EUITIZ, Zaragoza (Spain) Xiangdong Yao Griffith University , Australia Prof. Bernard Riedl, Université Laval, Canada Suresh Narine Trent University, Canada |
| 108. | Second International Conference on Recycling and Reuse of Materials (ICRM 2011) 5-7 August 2011, Kottayam, Kerala, India | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Prof. Dr. Verónica Calderón Spain Prof. Neil Izatt USA Prof. Nagesh N. Murthy USA Prof. Marko Likon Slovenia Prof. Raimundo Kennedy Vieira Brazil, |
| 109. | First International Conference on Nanomaterials (ICN 2010) April 27-29, 2010. | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Dr. Rongming Wang, China Prof. Dr. H.-G. Boyen, Belgium Dr. M.A.G. Soler Invoice, Brazil Dr. Mathieu Etienne, FRANCE Dr. Rolf Heumann Germany |
| 110. | Second International Conference on Polymer Processing and Characterization (ICPPC – 2010) January 15, 16 and 17, 2010 | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Dr. Verónica Patricia Martino France Prof. Alexey Iordanskii. Moscow Dr. Moyad N. Khalaf Iraq Prof. Oleg Kulikov Russia Prof. Wang li China Prof. Lu Lin China |



| Advanced Centre of Environmental Studies and Sustainable Development -ACESSD | | | |
|--|---|-------------------------|---|
| 111. | International Conference on Advanced Oxidation Process in collaboration with Centre for Environment Education and Technology (CEET), (AOP-2010)-September 18-21, 2010, Kottayam. | DST, CSIR, DRDO | Prof. Dr. Detlef W. Bahnemann (Germany), Prof. Dr. Hoffmann(caltech,USA), Prof. Dr. Jacqueline Belloni (France), Padmasree Jai P. Mittal (BARC, India), Dr. Tulsi Mukherjee (BARC, India), Prof. Dr. B.S. M. Rao (Pune ,India) |
| 112. | National Conference on Native Livestock breeds and their sustainable uses in collaboration with Vechoor Conservation Trust and National Biodiversity Authority, September 27- 28, 2010, Kottayam) | DST, CSIR, DRDO | Prof. Dr. Deniz Roizard (France), Dr. Asok M Raichur (IISC, India), Prof. Dr. V.V. Teplakov(Russia), Prof. Dr. G. Golemme(Italy), Dr Jayasree ramkumar(BARC, India), Prof. Dr. Quang Trong Nyugen (France), Dr. Hiromitsu Takaba (Japan), Prof. Dr. Alok Kumar Ghosal (IIT, Guwahati,India), Dr. Anupam Sukla (IIT, Delhi,India), Thomas Luxbacher(Austria), Dr. S. K. thampi (CSMCRI, India) , Prof. Dr. R. Mercier(France), Prof. Dr. Nagy E(Hungary) |
| 113. | International Conference on Membranes: Environmental and biological applications- (ICM-2011) September 16-19, 2011, Kottayam. | DST, CSIR, DRDO | Prof. Dr. Hynd Remita (France), Prof. Dr. Mehmet Oturan(France), Dr. Sarkar (BARC, India), Dr. Abijith Saha(Kolkata,India) |
| 114. | National conference on Disaster risk and vulnerability, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011 | DST, CSIR, DRDO MEF, | Prof. D. Fatta Kassinos (Cyprus), Prof. Minjoong Yoon (South Korea), Prof. Renato). |
| 115. | Second International conference on Advanced Oxidation Process, October 5-8, 2012, Kottayam. | M.G.Un-iversity | Prof. Dipankar Chakraborty(Kolkata, India), Prof. Anne M. Hassen (Mexico), Dr. Anurag Garg(IIT,Bombay), |



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| 116. | National Conference on Conservation and Management Of Wetland Ecosystems, In Association with SES, MGU, Kottayam, November 6-9, 2012 | M.G.Un-iversity MEF, | Prof. Andreas Kaiser (Denmark), Prof Yoram Oren (Israel), Prof. Balagopal Nair (Japan) |
| 117. | National seminar on sustainable development – recent trends in meeting the challenges, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 20-21, 2012, Kottayam. | M.G.Un-iversity | Prof. Anilkumar(Japan), Prof Sylvie (France), Prof) |
| 118. | International Conference on Membranes (ICM-2013), October 3-6, 2013, Kottayam. | DST, CSIR, BRNS | K. G. K. Warriar (NIIST, India), Prof. Dr. Vinay A. Juvekar (IIT,Bombay) |
| 119. | Seminar on Conservation of Western Ghats, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 16 th December 2013. | DST, CSIR, BRNS | Prof. O. P. Singh (India), Prof. Dayanthi Nugagoda (Australia). |
| 120. | Third International Conference on Advanced Oxidation Processes (AOP 2014) Sept. 25-28, 2014, Munnar, Kerala. | DST, CSIR, BRNS | Mark Wisner (USA), Dr/ Ulhas Kharul (NCL,India) |
| 121. | International Conference on Water: from pollution to purification (ICW - 2015) Jan. 23-26, 2015, Kottayam, Kerala | DST, CSIR, BRNS | Falcao Dantas (Brazil), |
| 122. | International Conference on Membranes (ICM - 2015) Aug. 21-24, 2013, Kochi, Kerala | DST, CSIR, DRDO | Dr. Pushpito Ghosh(CSMCRI, India) |
| 123. | International Conference on Mass Spectrometry, December, 11-14, 2015, Kottayam | MEF | Dr. Marc J-F Suter, Eawag, Switzerland Prof. Athula Attygalle, Stevens Institute of |



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|--|---|----------------|---|
| | | | Technology, USA Prof. Olivier Laprevote, Paris Descartes University, France |
| Inter University Centre for Studies in Science of Music -IUCSSM | | | |
| 124. | International Seminar on Science of Music was organized "Nadam-2015" 23-27 September 2015 at Kottayam | M.G.University | Dr. James B. Kinchen, University of Wisconsin- Parkside Dr. Sanjay Subramanyam Chennai, Eminent Karnatic Vocalist |
| Advanced Molecular Materials Research Centre-AMMRC | | | |
| 125. | National Seminar on Current Trends in Material Sciences on 15-11-2013 | M.G.University | Dr Vijayamohan Pillai, CECRI, Karaikudi Dr K.R.Dayas, CMET, Trichur Dr Shaaijumon Cherian, IISER, TVM |
| 126. | National Seminar on Recent trends in Inorganic-Organic Hybrid Materials on 26 - 27 February, 2015 | M.G.University | J. N Behera (NISER, Orissa) T.K.Maji (JNCASR, Bangalore) R. Murugavel, (IIT, Bombay) |
| 127. | National Seminar on Recent Advances in Materials Sciences on November 18-19, 2016, | M.G University | 1. Dr. Subi Jacob George, JNCASR Bangalore 2. Dr. Vinod Prabhakaran NCL Pune 3. Dr. Reji Varghaes, IISER TVM 4. Dr. Hareesh, NIIST, TVM |
| National Institute of Plant Science and Technology (NIPST) | | | |
| 128. | National Seminar on "Plant Science Technology for Sustainable World" held on 25th & 26th February 2016. | M.G.University | Dr. Krishnaraj P.U., College of Agriculture, UAS Dharwad, Karnataka. Dr. Lekha Sreekantan, KAU, Thiruvananthapuram. Binod Parameswaran, CSIR-NIIST, Thiruvananthapuram Dr. K.G. Reghu, CSIR-NIIST, Thiruvananthapuram |



| Inter University Instrumentation Centre –IUIIC | | | |
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| 129. | National Workshop on Frontiers of Spectroscopy and Microscopy, Sept 10-12, 2012 | DST-PURSE | <ul style="list-style-type: none"> • Prof. K.V.Ramanathan, IISc, Bangalore (NMR Spectroscopy) • Dr. Venkat Manohar, IICMS, Chennai (MS- Proteomics) • Dr. Unnikrishnan Warriar C. CWRDM, Calicut (Isotopes ratio - MS) • Prof. P.M.G. Nambissan, SINP, Kolkata (Positron Annihilation) |
| 130. | National Seminar on "Uptrends in Chemical Sciences and Technology"-2013 March 15-16, 2013 | UGC | <ol style="list-style-type: none"> 1. Dr. T. Pradeep, IIT Chennai 2. Prof. A. Ajayaghosh, CSIR- O Scientist & Dean, Academy of Scientific And Innovative Research, Niist, Trivandrum 3. Prof. Santhanu Bhattacharya, IISc, Bangalore 4. Prof. A.K. Mishra, IIT Chennai 5. Dr. Y.S. Mayya, BARC, Mumbai |
| 131. | International Conference on Mass Spectrometry, ICMS-2013 Sept. 6-9, 2013 | KSCSTE, BRNS, CSIR, M. G. University | <p>Dr. Olivier Laprevote, Paris Descartes University, France</p> <p>Dr.Mahesh J. Kulkarni, National Chemical Laboratory, Pune, India</p> <p>Prof. Kentaro Yamaguchi, Tokushima Bunri University, Japan</p> <p>Dr.Venkateswarlu Panchagnula, National Chemical Laboratory, Pune</p> <p>Dr.R. Srinivas, National Centre for Mass Spectrometry, India</p> |



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| 132. | National Colloquium on Mass Spectrometry, Chemical, Biological and Environmental applications Aug. 29-31, 2014 | KSCSTE | Dr. K. P. Madhusudanan , Visiting Scientist, IUIIC, MGU Dr S.K. Raza , Institute of Pesticide Formulation Technology, Gurgaon Dr. M.V. Jagannadham , CSIR- CCMB, Hyderabad Dr.Abdul Jaleel K. A. , RGCB, TVM), |
| 133. | International Conference on Advanced Oxidation Processes, AOP- 2014 Sept. 25-28, 2014 | DST, KSCSTE, BRNS, ISRO | Dr. Michael R. Hoffmann , California Institute of Technology, USA Prof. Mehmet A. Oturan , Universite Paris-Est, Marne-la-Vallee, France Dr. Collin G. Joseph , Universiti Malaysia Sabah, MALAYSIA Prof. D. Fatta-Kassinis , School of Engineering, University of Cyprus, Cyprus\ Prof. Minjoong Yoon , Chungnam National University, Daejeon, South Korea |
| 134. | International Conference on Water, ICW-2015 Jan. 23-26, 2015 | DST | Prof. Mark R. Weisner , Duke University, USA. Prof. Yoram Oren , Zukerberg Institute for Water Research, Israel. Dr. Anne M. Hansen , Mexican Institute of Water Technology, Mexico. Dr. Martina Zelenakova , Technical University of Kosice, Slovakia. |
| 135. | Third International Conference on Membranes, ICM-2015 Aug. 21-24, 2015 | DRDO | Prof. Y. Oren , Zukerberg Institute for Water Research, Israel Prof. Vladimir Teplyakov , Russian Academy of Sciences, Russia Prof. Andreas Kaiser , Technical University of Denmark, Denmark Dr. Thomas Luxbacher , Anton Paar GmbH, Austria |



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| 136. | National Workshop on Mass Spectrometry (NWMS-2015), Dec. 10-11, 2015 | M. G. University | Dr. M. Vairamani , SRM University, Chennai Dr. K. Madhusudanan , IUC, M. G. University Dr. R. Srinivas , National Centre for Mass Spectrometry, CSIR-IICT, Hyderabad Prof. Athula Attygalle , Stevens Institute of Technology, USA. |
| 137. | International Conference on Mass Spectrometry, ICMS-2015 Dec. 11-14, 2015 | DST, KSCSTE, DRDO | Dr. Marc J-F Suter , Eawag, Switzerland Prof. Athula Attygalle , Stevens Institute of Technology, USA Dr. R. Srinivas , National Centre for Mass Spectrometry, India |
| Institute for Contemporary Chinese Studies - ICCS | | | |
| 138. | Symposium on the theme China and the Emerging World Order: Is Peaceful Rise Possible? on 23 December 2011 jointly with the KPS Menon Chair, School of International Relations and Politics, MGU | ICSR, ICWA | Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan National University, Guangdong, Guangzhou, China Li Mingquan , Professor & Vice –President, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 139. | International Conference on China (CoC 2012) during 1-3 November 2012 on the theme The Rise of China: Policy Parameters and Prospects jointly with the Indian Council of World Affairs (ICWA), New Delhi, Association of Asian Scholars (AAS), New Delhi and the Institute of Chinese Studies (ICS), New Delhi | ICSR, ICWA, MG University | Huan Yinghong , Associate Professor at the School of International Relations, Sun Yat-sen University, P.R.China Yue Zhaomin , Associate Professor, Sichuan Academy of Social Sciences, China. Faculty and Secretary General of the "Centre for India Studies", China Ji Mengxue , Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |



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| 140. | International Symposium on the theme Political Transition in China and the United States – Implications for India on 28 February 2013 jointly with the KPS Menon Chair | MG University | Li Jingfeng , Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China Chen Jixiang , Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China Nie Wenjuan , Associate Professor, Institute of International Relations, China Foreign Affairs University. |
| 141. | National Seminar on the theme “Understanding China: Indian Perspectives” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP and the Chennai Centre for Chinese Studies during February 2015. It was attended by around 20 invited scholars. | MG University CCCS, Chennai | Prof. Srikanth Kondapalli, Jawaharlal Nehru University, New Delhi Amb. Vinod C. Khanna from New Delhi, Sri. Venu Rajamony, IFS from the Ministry of External Affairs; Sri. T.P. Sreenivasan, IFS, Former Indian Ambassador, Sri. Muraleedharan Nair formerly Consul General at Indian Mission at Guangzhou, China, |
| 142. | Conference on the theme “Engaging Diaspora” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP during March 2015. | MG University KSHEC, Thiruvananthapuram. | Prof. Srikanth Kondapalli, Prof. of Chinese Studies at Jawaharlal Nehru University (JNU), New Delhi, Prof. Madhu Bhalla, Prof. of Chinese Studies at Delhi University, Prof. V. Suryanarayan, President, Chennai Centre for China Studies, Chennai, Dr. D.S. Rajan, Director, Chennai Centre for China Studies, |
| 143. | Associated with an International Conference on 'Understanding | MG University | Dr.T.G. Suresh, Associate Professor, Centre for Political Studies, JNU, |



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|--|--|---------------|--|
| | Contemporary India' organized by the Rajiv Gandhi Chair for Public Policy Studies, School of International Relations and Politics & University Centre for International Co-operation, Mahatma Gandhi University during 14-15 January 2016. | | Sri. R. Hariharan, Former Chief of Military Intelligence, Government of India, Sri.K. Subrahmaniam, Former Joint Secretary (Retd.) Dept. of Economic Affairs, Government of India, Prof. R.S. Vasan, Director, Chennai Centre for China Studies |
| KN Raj Centre for Planning and Centre – State Financial Relations | | | |
| 144. | Seminar “Emerging Kerala and the Budget 2013-14” -Seminar and Symposium on 22 March 2013. | MG University | Prof. M.A. Oommen, Dr. K.K. George, Prof. K.J. Joseph, Prof. K.N. Harilal, Sri. C.P. John, Prof. Martin Patrick et al. and Sri. K. M. Mani |
| 145. | Colloquium on “Contours of Centre-State Financial Relations and the Budget 2014-15 | MG university | Prof. K.N. Harilal (CDS), C.P. John (Planning Board), Prof. Rajan Varughese (former PVC), R. Mohan (Ministry of Finance, Govt of India), Shyjan D (CDS), Prof. Thomas Isaac, former finance minister and Sri. K.M. Mani |
| 146. | Colloquium on the “Union Budget: Challenges and Opportunities” 11 July 2014 | MG university | Dr. Jayan Jose Thomas, Associate Professor, Indian Institute of Technology, New Delhi. Dr. Alexander Eapen, Director of Research, Australian National University, Sri. K.T. Chacko former Director, Indian Institute of Foreign Trade, New Delhi, Dr. Jose Naduthotty, KNRC and Dr. B. Ekbal |
| 147. | Collaborative Seminar with UC College | UC college | Dr. Anuradha Balaram (Advisor to the State Planning Board), Dr. Praveen Jha (Jawaharlal Nehru University), Dr. K. K George, Dr. M.A. Oommen, Dr.D.Narayana (former Director, GIFT), Dr.. CA Antony, CUSAT, Mr. Mohan, Ministry of |



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| | | | Finance, Dr. Rajan Varughese et al. Dr. Amit S Ray, Director, Centre for Development Studies |
| 148. | Kerala Development Ozymora: External Source Goods and Service Tax (GST): Implications for Kerala Economy | ICSSR Institute of Parliamentary Studies (IPS) | Prof C P Chandrashekhar, Professor of Economics, J.N.U New Delhi Prof. M A Ommen, Indian Social Institute, Delhi |

3.2 Resource Mobilization for Research

3.2.1 What are the financial provisions made in the university budget for supporting student's research projects?

University Fellowships for Research:

The University provides fellowship to Research Scholars who have been registered for their Ph.D programme (and who are not availing any other fellowships)

| Sl.No | Financial year | No.Candidates |
|-------|----------------|---------------|
| 1 | 2010-11 | 120 |
| 2 | 2011-12 | 160 |
| 3 | 2012-13 | 106 |
| 4 | 2013-14 | 257 |
| 5 | 2014-15 | 200 |
| 6 | 2015-16 | 230 |

Fellowships from funding agencies (UGC/CSIR JRF/SRF):

| Sl.No | Financial year | No.Candidates |
|-------|----------------|---------------|
| 1 | 2010-11 | 44 |
| 2 | 2011-12 | 44 |
| 3 | 2012-13 | 134 |
| 4 | 2013-14 | 177 |
| 5 | 2014-15 | 202 |
| 6 | 2015-16 | 176 |



Other Fellowships

| Sl.No | Financial year | DST INSPIRE | ICSSR SRF | ICSSR PDF | RFSMS | RGNF | KSCSTE |
|-------|----------------|-------------|-----------|-----------|-------|------|--------|
| 1 | 2010-11 | 0 | - | - | 15 | 21 | 05 |
| 2 | 2011-12 | 1 | - | - | 16 | 26 | 05 |
| 3 | 2012-13 | 2 | - | - | 21 | 22 | 08 |
| 4 | 2013-14 | 7 | 1 | 1 | 22 | 13 | 12 |
| 5 | 2014-15 | 12 | - | 1 | 19 | 09 | 12 |
| 6 | 2015-16 | 9 | - | 1 | 11 | 04 | 09 |

Funds from External funding Agencies

| Sl.No | Name of School /Department | Total amount recieved from various funding agencies |
|-------|--|---|
| 1 | Behavioural Sciences | Rs 4.665 Lakhs |
| 2 | Biosciences | Rs 858.204 Lakhs |
| 3 | Chemical Sciences | Rs 828.556 Lakhs |
| 5 | Environmental Sciences | Rs 313.36 Lakhs |
| 6 | Gandhian Thought & Developmental Studies | Rs 44.93 Lakhs |
| 7 | International Relation & Politics | Rs 42.90 Lakhs |
| 8 | Letters | Rs 17.342 Lakhs |
| 9 | Management & Business Studies | Rs 3.00 Lakhs |
| 10 | Pedagogical Sciences | Rs 4.665 Lakhs |
| 11 | Pure & Applied Physics | Rs 325.27656 Lakhs |
| 12 | Tourism Studies | Rs 11.11 Lakhs |



| Sl.No | Name of centre | Total amount recieved from various funding agencies (Rupees) |
|-------|----------------|--|
| 1 | IIUCNN | 1594.74285 Lakhs |
| 2 | CHPC | 40.00 Lakhs |
| 3 | ACCESSD | 76.00 Lakhs |
| 4 | AMMRC | 5.20 Lakhs |
| 5 | ICCS | 25.00 Lakhs |
| 6 | IUIC | 650.00 Lakhs |
| 7 | KNRaj | 8.73 Lakhs |

**Details of Funds from External Funding Agencies
State Plan Funds for Infrastructure development**

| Year | Funding agency | Total grant received (Rs in Lakhs) |
|---------|-----------------|------------------------------------|
| 2011-12 | State Plan Fund | 2.50 |
| 2012-13 | State Plan Fund | 1.40 |
| 2013-14 | State Plan Fund | 1.60 |
| 2014-15 | State Plan Fund | 21.50 |
| 2015-16 | State Plan Fund | 22.00 |

3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

Two Outreach programmes were conducted on facilitating innovation and patent filing on 29th February 2016 and 19th August 2016. This was organised by Inter University Centre for intellectual property right studies, Cochin University of Science and Technology, hosted by Mahatma Gandhi University.



| SL. No | Patents Granted |
|--------|--|
| 1. | Photosensitizers and use thereof for generating hydrogen from water. N. Stefan, D. Uwe, B. Jens, H. Sascha, B. Matthias, Z. Horst-Werner, G. Felix, C. Daniela, D. Stefania, G. Anilkumar, L. Sebastian, J. Henrik, G. Serafino, B. Matthias US patent. US 2014/0023582 A1. (2014) Verfahren zur katalytischen oxidation von Wasser. G. Anilkumar , S. Losse, S. Gladiali, N. Marquet, F. Gartner, S. Dennura, H. Junge, M. Beller, D. Cozzula, German patent. DE 10 2011 079424 A1 (2013) |
| 2. | Process for catalytic oxidation of water. N. Marquet, G. Anilkumar , F. Gartner, S. Losse, S. Dennura, D. Cozzula, S. Gladiali, M. Beller International Patent. WO 2013/010902 A1 (2013) |
| 3. | Photosensitizers and use thereof for generating hydrogen from water. N. Stefan, D. Uwe, B. Jens, H. Sascha, B. Matthias, Z. Horst-Werner, G. Felix, C. Daniela, D. Stefania, G. Anilkumar, L. Sebastian, J. Henrik, G. Serafino, B. Matthias International Patent. WO 2012/065833 A1. (2012) |
| 4. | Photosensibilisatoren und deren Einsatz zur wasserstoffereugung aus wasser. N. Stefan, D. Uwe, B. Jens, H. Sascha, B. Matthias, Z. Horst-Werner, G. Felix, C. Daniela, D. Stefania, G. Anilkumar , L. Sebastian, J. Henrik, G. Serafino, B. Matthias European Patent. DE 10 2010044155 A1. (2012) |
| 5. | Fibre reinforced composites with toughened epoxy matrix and a process for preparing the same, Application 940/CHE/2006, published 2007-12-07. Vattikuti Lakshmana Rao, Bejoy Francis, Rajagopal Ramaswamy, Kavoor Ninan Ninan, Sabu Thomas. Patent no. 276350, date of grant 17/10/2016. |
| 6. | Verfahren zur katalytischen oxidation von Wasser. G. Anilkumar , S. Losse, S. Gladiali, N. Marquet, F. Gartner, S. Dennura, H. Junge, M. Beller, D. Cozzula, German patent. DE 10 2011 079424 A1 (2013) |
| 7. | Photosensitizers and use thereof for generating hydrogen from water. N. Stefan, D. Uwe, B. Jens, H. Sascha, B. Matthias, Z. Horst-Werner, G. Felix, C. Daniela, D. Stefania, G. Anilkumar, L. Sebastian, J. Henrik, G. Serafino, B. Matthias US patent. US 2014/0023582 A1. (2014) |
| | Patents filed |
| 1. | Biodegradable, Biocompatible Wound Healing Dressing Film and ointment from the Biocomposite of Marine Origin, Indian Patent application: 840/DEL/2013, M. Kurup and Sabu Thomas |



| | |
|----|--|
| 2. | A polymer Nanocomposite, Process And Application there-of, WIPO Publication number: WO2016142848 A1, Publication date: Sep 15, 2016, and Indian patent Application No: 638/DEL/2015 Mohammed Arif P, Sabu Thomas, Nandakumar Kalarikkal |
| 3. | Highly gas impermeable elastomeric rubber- rubber blend nanocomposite, Indian Patent Application no: 135/CHE/2012, Sabu Thomas, Ajesh K. Zachariah , P.K. Mohammad, Arup Kumar Chandra. |
| 4. | Method for improving the comparative tracking index of polymer composites, Indian patent Application No:239/CHE/2014, Harinarayanan Puliyalil, Uros Cvelbar, Miran Mozetic, Sabu Thomas . |
| 5. | Ibnusaud and Sarath Muralidharan Pillai . Enatiopure total synthesis of indolizinoindole alkaloid (+) harmicine and (-) harmicine from (2S,3R)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid (Hibiscus acid) and (2S,3S)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid (Garcinia acid). Indian Patent application No . 3682/CHE/2016 |
| 6. | Synthesis of (R)-(+)-Crispine A and (S)-(-)-Crispine A from (2S,3R)- and (2S,3S)-Tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acids, Divya Sadasivan Nair, Deenamma Habel and Ibrahim Ibnusaud , Indian Patent application No. 3484/CHE/ 2016S |
| 7. | A Process for Making AP –based Composite Propellant with Active Copper Oxide as Burn Rate Modifier”. No.241/MAS/97 Inventors- Suresh Mathew, T. L. Varghese and K. N. Ninan |

3.2.3 Provide the following details of ongoing research projects of faculty:

Total number of ongoing projects: 58

| Sl. No. | Title of the Project | Period | Funding agencies | Total Fund (Rs in Lakhs) |
|------------------------------|--|-----------|------------------|--------------------------|
| School of Biosciences | | | | |
| 1. | Studies on molecular and chemical basis of plant growth promoting and antiphytopathogenic properties of rhizosphere microorganisms | 2015-2018 | KSCSTE | 25 |



| | | | | |
|--|--|----------------------------|-----------------------------------|-------|
| 2. | Identification, isolation and characterization of Acyl Homoserine Lactone-mimic compounds from selected plants | 2015-2017 | KSCSTE | 6.9 |
| 3. | Explorations of honey bee gut microbiota for industrial and therapeutic applications' (SB/EMEQ-137/2013) | 2013-2017 | DST-SERB, New Delhi. | 30 |
| 4. | Bioremediation of chlorpyrifos by autochthonous bacterial consortia | 2016-2019 | KSCSTE | 22.94 |
| 5. | Investigating the mechanism behind the protective effect of the anticancer compounds isolated from <i>Woodfordia fruticosa</i> Kurz. Flowers against hepatocellular carcinoma. | 2016-2019 | KSCSTE | 22 |
| 6. | Purification and characterization of Bacteriocin produced by Lactic Acid Bacteria isolated from Natural sources | 384/p and D-II/1/2016/ADMN | UGC | 5 |
| 7. | Boost to University Interdisciplinary Life Science Departments For Education And Research (BUILDER) | 2012-2017 | BT/PR4800/INF/22 /152/2012 DBT | 450 |
| School of Chemical Sciences (SCS) | | | | |
| 8. | Nano membrane for water purifications | 2013-2014 | DST-Kothari PDF | 17.00 |
| 9. | Nanocellulose water | 2015- | DST-Kothari | 17.00 |



| | | | | |
|---|--|------------------|-------------------------|------------------|
| | purifications | 2016 | PDF | |
| 10. | Nanocomposites | 2015-2018 | DST-Kothari PDF | 17.00 |
| School of Environmental Sciences | | | | |
| 11. | Perchlorate contamination of drinking water resources in Kerala | 2016-2019 | KSCSTE, Govt. of Kerala | 22.5 |
| 12. | Investigation of the special distribution of uranium and associated water quality parameters in five central districts of Kerala | 2015 onwards | BRNS | 22.92 |
| 13. | Long Term Environmental Monitoring of Fjord Ecosystems, Ny-Ålesund (Arctic) | ESSO-NCAOR, MoES | 2016-2017 | Logistic support |
| School of International Relations and Politics | | | | |
| 14. | WTO, TRIPS and South Asia | 2014 | UGC | 8.7 |
| School of Pedagogical Sciences | | | | |
| 15. | Analysis of Performance-Based Assessment of English: A study Among Secondary School Teachers of Kerala | | UGC | 1.1 |
| 16. | Programme Design and Implementation of an Idyllic Classroom Culture of Thinking Through Designated Mechanisms to Engage Teacher Educands at Secondary Level In Peace Building Activities | | UGC | 1 |
| 17. | “Teaching Mathematical Thinking Through E-Contents in Mathematics | | UGC | 2.56 |



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|---|---|-----------|--|----------|
| | among Secondary School Students” | | | |
| School of Pure and Applied Physics (SPAP) | | | | |
| 18. | Nanoparticle aggregation behavior in polymer nanocomposites | 2014-2017 | UGC-DAE-CSR Kolkata | 7.894 |
| 19. | Physics of Cavitation Bubbling and Hydrogen Generation during Liquid Phase Laser Ablation | 2016 -18 | BRNS | 34.96576 |
| 20. | Sol Gel Shaping of nanostructures and their characterization of Plasmonic application | 2014-17 | KSCSTE | 15.0 |
| School of Social Sciences | | | | |
| 21. | “Self-Help Groups in Kerala: A Study in Economic Sociology” | 2015-17 | UGC, New Delhi | 3.5 |
| 22. | “Theyyam Kettu of Kerala: The Economy and Labour of Performance” | | ICSSR, New Delhi | 9 .00 |
| 23. | Archives sans Borders MGU | 2016-17 | Government of Kerala | 23.70 |
| 24. | ABILITY Project for Physically Challenged and Visually Impaired | | Government of Kerala | 83.00 |
| School of Tourism Studies | | | | |
| 25. | Making Kerala’s Tourism destinations with minimal disaster risk: a geographic approach” | 2016-18 | (ICSSR) Indian Council of Social Science Research | 8.00 |
| International and Inter University Centre for Nanoscience and Nanotechnology | | | | |
| 26. | Rod-coil type block copolymers and their | 2016-2018 | DST-Kothari | 17.00 |



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|-----|--|-----------------------------|--------------------|-------|
| | composites as functional nanostructured materials for soft electronics | (3 Years) | PDF | |
| 27. | Development of a magnetic field sensor based on multiferroic laminar composite | 2016-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 28. | Poly(lactic acid) nanocomposites for packaging applications | 2015-2018 (3 Years) | DST-Kothari PDF | 17.86 |
| 29. | Development of ZnO based solar cells sensitized by dyes and biological molecules | 2015-2018 (2 years) | DST-Kothari PDF | 20.00 |
| 30. | Polymer Quantum Dot aptamer hybrid conjugate for hepatocellular carcinoma cell imaging application | 2015-2017 (2 years) | KSCSTE - PDF | 9.44 |
| 31. | Size dependent antimicrobial activity and mode of action of nanoparticles emphasized with Ag nanoparticles against multiple drug resistant pathogens | 2015-2018 (3 Years) | DST-Kothari PDF | 20.16 |
| 32. | Novel thermoplastic elastomer composition for neutron shielding applications | 2015 – 2017 (2 Years) | DAE, BRNS | 34.66 |
| 33. | Engineering biopolymeric twin skip patch (tsp) matrices for wound healing applications | 2015-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 34. | Hybrid nanocomposites of natural rubber/chlorobutyl rubber blends for automotive inner liners and inner tubes | 2014-2016 (3 Years) | DST-Kothari PDF | 18.20 |
| 35. | Engineering of nano-structured high performance epoxy/liquid | 2014 – 2017 (3 Years) | CSIR | 14.92 |



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|-----|---|---------------------------|--|--------|
| | rubber blends with controlled nanoparticle localisation | | | |
| 36. | Development of super tough Thermoset from self-assembled nanostructured block copolymer/epoxy resin blends | 2014 – 2017 (3 Years) | DRDO | 29.62 |
| 37. | Miscibility, morphology and properties of NR/SBR and BR based binary and ternary rubber blends and the influence of carbon black and silica filler distribution on blend properties | 2014 – 2017 (2.5Years) | MRF | 3.00 |
| 38. | Design and applications of magnetically responsive self-assembled polymer nanocomposites | 2016-2019 (3 Years) | DST Nano Mission | 200.00 |
| 39. | Physics of Cavitation Bubbling and Hydrogen Generation during Liquid Phase Laser Ablation | (2015-2017 Years) | BRFST-BRNS | 34.96 |
| 40. | Development of one-dimensional multi-ferroic nanocomposites for device applications | 2015 - 2017 | KSCSTE | 10.00 |
| 41. | AuNP/LDH core shell nanoparticles a novel multifunctional candidate for gene delivery | 2016-2018 (2 Years) | KSCSTE | 15.00 |
| 42. | Plant Lipids India Ltd | 2016-2017 | India | 3.50 |
| 43. | Studies on cellulose nanocrystals and their applications in nanocomposites with varying technological applications | 2014 – 2017 (3 Years) | DST (Indo-Brazil) International Bilateral co-operation | 27.29 |
| 44. | Biobased scaffold, membrane and hydrogel for improved wound | 2017-2019 | International project-Swedish Research Links- | 8 |



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|---|---|------------------------------|---|-----------------|
| | healing and bone regeneration (BIOHEAL) (International) | | (Indian Collaborator)- | |
| Advanced Centre of Environmental Studies and Sustainable Development (ACCESSD) | | | | |
| 45. | Polyelectrolyte multilayer membrane for the treatment of paper mill effluent | | KSCSTE, Govt. of Kerala | 26.00 |
| 46. | Nano skinned coir matrix for the removal of biological contaminants from water | 2016-2019 | DST | 31.09 |
| 47. | Nanofiber structure for efficient immobilization in membrane application | 2016-2020 | Technical University of Denmark | 4.26 (per year) |
| Inter University Centre for Biomedical Research & Super Specialty Hospital | | | | |
| 48. | Association of Monoamine Transporter Genes with Autism: Special Reference to Equilibrative Nucleoside Transporter 4 (ENT4 or SLC29A4) and Vesicular Monoamine Transporter-2 (VMAT-2 or SLC18A2) genes | 3 Years, Feb 2015 - Jan 2018 | Indian Council of Medical Research (ICMR), Govt. of India | 27.70 |
| Inter University Centre for Social Science Research and Extension IUCSSRE | | | | |
| 49. | Writing Dalit lives: Anthology of Women's Voices from Kerala | | ICSSR, New Delhi | 7.5 |
| 50. | Trans-formation of Land and Landscapes of Kerala: Locality Studies | | Higher Education Council, GoK | 75 |
| 51. | Women's Struggle: A Documentation of Feminist Movement in Kerala | | Higher Education Council, GoK | |



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|--|---|-----------|--|------------------------|
| 52. | Traditional Healing in a 'Modern Society: A Study on Policy, Practices and Pedagogy of Selected Healing Traditions in Kerala | | Higher Education Council, GoK | |
| 53. | Human Ecological Studies Of Indigenous Communities in the Southern Western Ghats | | Higher Education Council, GoK | |
| Advanced Molecular Materials Research Centre AMMRC | | | | |
| 54. | "Propellant Burn rate modifiers (PI: Prof. Suresh Mathew, Co-PI: Dr. P. Radhakrishnan Nair) | 2016-18 | ISRO | 19.20 |
| 55. | "Study of fundamental Chemical and Physical properties of magnetic ionic liquid nanofluids". collaboration with Department of Physics, Rzeszow University of Technology, Poland (PI: Prof. Suresh Mathew) | 2015-17 | DST, Govt. of India & (funding agency in poland) | 5.10 |
| KN. Raj Centre for Planning and Centre-State Relations (KNRC) | | | | |
| 56. | WTO, Public Health and South Asia: A study with particular reference to India | 2016-2018 | UGC major project | 8.89 |
| 57. | Business Innovation and student start up | 2016-2017 | Govt. of Kerala | 100 |
| 58. | Conducting Training programmes | 2016-17 | Collaboration with Gulati Institute of Finance and Taxation, Trivandrum; | Collaborative projects |
| | Total | | Rs.1679.03 lakhs | |



3.2.4 Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.

Industry Linked projects:

| Sl.No. | Project Title | Period | Funding agencies | Total Fund Rs. In lakhs |
|---|---|---------------------------|---|-------------------------|
| School of Biosciences | | | | |
| | Molecular mechanism of antidiabetic activity of <i>Costus pictus</i> . Under Industry linked Biotechnology programme, (Sanctioned by Kerala Biotechnology Commission, Kerala. | 2014-2017 | Industry Partner-Arjuna Natural Extracts, Alwaye; | 19.00 |
| School of Chemical Sciences (SCS) | | | | |
| 1. | Nanofillers in Polymeric systems | 2010-11 | General cables, USA | 1.5 |
| School of Tourism Studies | | | | |
| 2. | Project for Mango Languages | 2011 – 12 | Mango Languages, USA | 0.75 |
| International and Inter University Centre for Nanoscience and Nanotechnology | | | | |
| 3. | Miscibility, morphology and properties of NR/SBR and BR based binary and ternary rubber blends and the influence of carbon black and silica filler distribution on blend properties | 2014 – 2017 (2.5Years) | MRF | 3.00 |
| 4. | Plasma modification of polymers | 2010-2012 | Surface treat, Czech republic | 5.00 |
| 5. | Curcumin nanocomposite for biomedical applications | 2016-2017 | Plant Lipids India Ltd. Ernakulum, India | 3.50 |
| Total | | | Rs.32.75 lakhs | |



3.2.5. How many Departments/School of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

| Sl. No. | Title of the Project | Duration | Funding Agency | Grant Received (Rs. In Lakhs) |
|--|--|-----------------------|----------------------------------|-------------------------------|
| School of Biosciences | | | | |
| | SARD Programme | (2014-2017) | KSCSTE | 22 .00 |
| | DST PURSE | 2 nd Phase | DST | 225.00 |
| | DST FIST | 1 level | DST | 130.00 |
| | Boost to University Interdisciplinary Life Science Departments For Education And Research (BUILDER) | 2012 | BT/PR4800/INF/22/152/2012 DBT | 450.00 |
| School of Chemical Sciences (SCS) | | | | |
| | UGC XI and XII Plan funds | 2010-2016 | UGC | 40.00 |
| | DST FIST | 2012-2016 | DST | 175 .00 |
| | State Annual Plan Fund | 2010-2016 | Govt of Kerala | 74.00 |
| | UGC SAP | 2012-2016 | UGC | 75.00 |
| | DST PURSE | 2 nd Phase | DST | 225.00 |
| School of Environmental Sciences | | | | |
| | To strengthen the post-graduate teaching and research facilities in the Environmental Chemistry area | 2012-2017 | DST | 85.00 |
| | L.C/M.S,Petrological Microscope FIST | | DST | 90.00 |



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|---|---|-----------------------|-------------------------------|--------|
| | Investigation of the intermediates and final products of chemical and biological treatment of contaminated water and solid wastes | 2012-2014 | KSCSTE- SARD, Govt. of Kerala | 29.00 |
| | Infrastructure development for science departments | 2012 | DST-PURSE | 225.00 |
| | Infrastructure development | 2012 | DoECC | 5.00 |
| | DST PURSE | 2 nd Phase | DST | 225.00 |
| | Obama Singh 21 st Century Knowledge Initiative | 2012-2015 | UGC | 62.5 |
| School of Gandhian Thought And Development Studies | | | | |
| | UGC – SAP | | UGC – SAP | 24. 00 |
| | ICSSR | | ICSSR | 16.00 |
| | UGC | | UGC | 12.00 |
| School of International Relations and Politics | | | | |
| | MA Public Policy and Governance | 2010-15 | UGC | 21.00 |
| School of Management and Business Studies | | | | |
| | Towards Infrastructure | | UGC | 15.00 |
| School of Pure And Applied Physics (SPAP) | | | | |
| | DST–FIST To strengthen the post graduate, teaching and research facility in the department | 2010-15 | DST | 40.00 |
| | UGCSAPDRS PhaseI | 2009-14 | UGC | 62.40 |
| | UGCSAPDRS PhaseII | 2016-21 | UGC | 103.00 |
| | DST PURSE | 2 nd Phase | DST | 225.00 |



| School of Physical Education & Sports Sciences | | | | |
|---|--|------------------------|--------------------------------------|--------|
| | Sports Hostel | | UGC | 200.00 |
| | Swimming Pool | | UGC | 225.00 |
| | Tennis Court | | UGC | 25.00 |
| | Purchase of Sports Equipment | | UGC | 25.00 |
| | Sports Laboratory | | UGC | 25.00 |
| School of Tourism Studies | | | | |
| | State Annual Plan Fund | 2015-2016 | Govt of Kerala | 200.00 |
| | Research project | 2016-2018 | ICSSR | 8.00 |
| International and Inter University Centre for Nanoscience and Nanotechnology | | | | |
| | Nanoscale Materials for water purification and fabrication of nano composites for Biomedical application | 2016-2019 (3 Years) | Govt. of Kerala Plan fund 2015-16 | 100.00 |
| | University-Industry Collaboration and Development of New Technologies | 2015-2017 | Govt. of Kerala Plan fund 2015-16 | 40.00 |
| | Online course on Introduction to Nanoscience and Nanotechnology | 2015-2017 | Govt. of Kerala Plan fund 2015-16 | 50.00 |
| | Visvesvaraya PhD Scheme for Electronics and IT | 2015-2020 (5 Years) | MeitY | 89.77 |
| | KSCSTE under SARD Project | 2010-2013 | KSCSTE | 30.00 |
| Inter University Centre for Biomedical Research & Super Specialty Hospital | | | | |
| | Drugs from Ayurveda herbs | | DBT | 20.00 |
| Inter University Instrumentation Centre (IUIIC) | | | | |
| | National Centre (Sophisticated Analytical Instrument Facility- SAIF) | 2015 | DST | 650 |

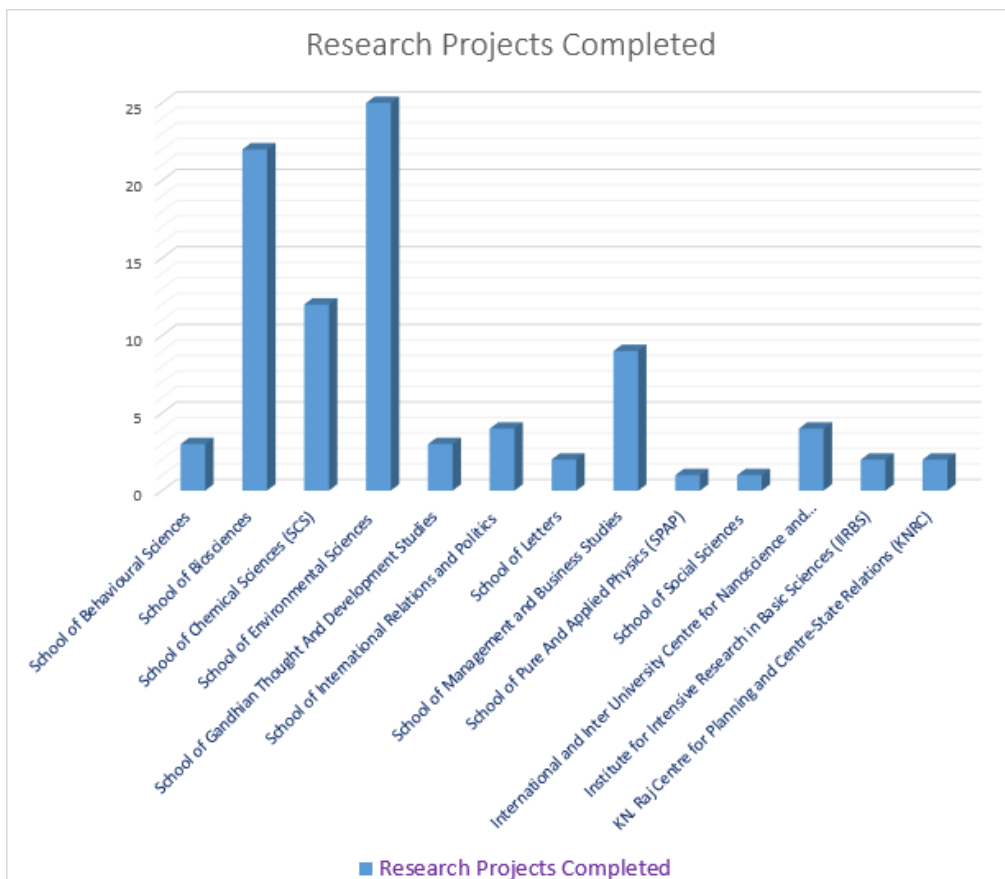


| Institute for Contemporary Chinese Studies (ICCS) | | | | |
|--|------------------------------------|-------|---|-------|
| | Kerala Government | | Kerala Government | 25.00 |
| | UGC | | UGC | 25.00 |
| Institute for Intensive Research in Basic Sciences (IIRBS) | | | | |
| | KSCSTE under SARD Project | .2014 | KCSTE under SARD Project Order No.524/2014/KCSTE dated 04.10.2014 | 30.00 |
| KN. Raj Centre for Planning and Centre-State Relations (KNRC) | | | | |
| | ICSSR, Delhi | 2015 | ICSSR for holding national seminar | 2.50 |
| | Institute of Parliamentary studies | 2015 | For conducting symposium on GST | 1.00 |
| Total | | | Rs. 4427.17 lakhs | |

The recognition received from external agencies has helped the university to come up with significant contributions in the higher education sector in the form of patents, high impact publications etc. The alumni of the University hold prominent positions in academia, research and industrial organisations and serve the society in different capacities in India and abroad.

3.2.6 List details of

a. Research projects completed and grants received during the last six years (funded by National/International agencies).



| Sl. No | Title of the Project | Period | Funding agencies | Total Fund (Rs in Lakhs) |
|---------------------------------------|--|---------------------|-------------------------------|---------------------------|
| School of Behavioural Sciences | | | | |
| 1. | High School Students with Dyslexia (Dr. Rajeevkumar N) | 2013-15 (18 months) | ICSSR – New Delhi | 4.00 |
| 2. | Exclusive tendency in Inclusive Education (Dr. K.Muhamad Mustaffa) | (2014-15) | Sarva Siksha Abhiyan, Kerala. | 1.20 |
| 3. | Effectiveness of orientation | 2014-15 (12 months) | ICSSR – New Delhi | 5.00 |



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|------------------------------|---|--------------|---------|------|
| | programme for teachers in the management of behavioural problems (M.S. Razeena Padmam) | | | |
| School of Biosciences | | | | |
| 4. | Barcoding and genetic diversity analysis of <i>Clarias</i> spp of Kerala | (2012-2015) | KSCSTE, | 14.7 |
| 5. | Production of phytoecdysteroids from the callus cultures of <i>Achyranthes aspera</i> | (2012-2015) | UGC | 12.6 |
| 6. | Safety Evaluation of the process of Chlorination in drinking water system with specific reference to Chlorination derived By-products | (2012-2014) | UGC | 9.6 |
| 7. | Acetyl Homoserine Lactone based quorum sensing and its biotechnological applications | (2012-2015) | KSCSTE | 16.5 |
| 8. | Studies on immunomodulatory effects of <i>Acacia catechu</i> | (2012-2015) | UGC | 11.1 |
| 9. | Molecular Exploration of Spice Associated Bacteria for Bioactive metabolites and PKS-NRPS genes <i>Acacia catechu</i> | (2011-2014), | DBT | 15 |
| 10. | Molecular Studies on Biofilm formation in Coagulase Negative <i>Staphylococci</i> | (2011-2014) | ICMR | 22 |
| 11. | Studies on molecular and chemical basis of plant growth | (2015-2018) | KSCSTE, | 25 |



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|-----|--|----------------------------------|----------|-------|
| | promoting and antiphytopathogenic properties of rhizosphere microorganisms | | | |
| 12. | Evaluation of the protective effect of omega-3 fatty acid against arsenic trioxide induced cardiac toxicity in cancer therapy.Funding | (2011-2014), | UGC | 9.48 |
| 13. | Molecular Basis of Sodium Dodecyl Sulphate (SDS) Bioremediation & Bioreactor Designing | 2011-2015 | KSCSTE | 13.5 |
| 14. | Characterization of endophyticdiazotrophic bacteria from rice (Oryzasativa) and assessment of their potential biocontrol of rice sheath blight disease | F. No. 41-1169/2012 2011-2015 | UGC | 13.9 |
| 15. | Production, Purification and Characterization of antagonistic principles of Potential Aquaculture probiotics | (2010-2013) | UGC | 10.78 |
| 16. | Exploration of honey bee gut microbiota for industrial and therapeutic applications | (SB/EMEQ-137/2013) | DST-SERB | 30. 3 |
| 17. | In vitro studies on inhibition of eicosanoid metabolism for control of arthritis by extracts of stem of Tinosporacordifolia | BT/PR14926/PBD/17/720/20 10 | DBT | 21.17 |
| 18. | Evaluation of methanolic extracts Elephantopuscaber for inhibitors of | 015/SRSLs/2010/CSTE | KSCSTE | 17 |



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|-----|--|---------------------------|--|--------|
| | 5-lipoxygenase (5-LOX) and cyclooxygenase-2 (COX-2) | | | |
| 19. | Nattokinase-fibrinolytic and antihypertensive enzymes from novel bacterial isolates | 03/YIPB/KBC/2012/CSTE | KSCSTE | 4.73 |
| 20. | Chemotactic response of human Phagocytic cells (Polymorphonuclear leukocytes and monocytes) in tuberculosis patients | 37-599/2009 (SR). | UGC | 1.84 |
| 21. | Endomycorrhizal Studies in Musa Sp of South India | (2012-2015) | UGC | 13.5 |
| 22. | Collection, identification and screening of green algae from bloomed water bodies of Kerala for quality and quantity of lipids | 002/SRS/RCSE-24-2015/CSTE | KCSTE | 27 |
| 23. | Protective effect of Elephantopus scaber Linn. A traditional medicinal plant on hepatic fibrosis and hepatocellular carcinoma | (2009-2011) | KSCSTE | 10.92 |
| 24. | Isolation, characterization and evaluation of in vitro anticancer and antioxidant activities of polyphenols from kernel and oil from coconut | 1345/2011-TMOC | Coconut Development Board, Ministry of Agriculture, Govt. of India | 30.8 |
| 25. | Molecular mechanism of antidiabetic activity of Costus pictus | 025/IBRS/KBC/2013 | KSCSTE | 19 .00 |
| 26. | Molecular mechanism of hepato protective activity of Aerva lanata | 006/SRSL/2013/CSTE | KSCSTE | 10.78 |



| School of Chemical Sciences (SCS) | | | | |
|--|--|-----------|---|-------|
| 27. | Development of high performance butyl rubber nano composites for barrier application | 2007-2011 | DST | 39.94 |
| 28. | Development of Thermoplastic Vulcanizates (TPVs) from Natural Rubber and polypropylene Blends for the Fabrication of Automotive Parts and shoe Soles | 2009-2012 | KSCSTE. | 14.70 |
| 29. | Synthesis And Applications of Star Block Copolymers, Dendrimers And Star Gel Containing Biocompatible Block | 2007-2011 | Council of Scientific & Industrial Research | 14.00 |
| 30. | Tuning the properties of stimuli sensitive copolymers- A step towards purification of water | 2009-2012 | SERC,DST | 28.35 |
| 31. | Development of biodegradable dual porous polymer nanocomposite scaffold | 2008-2011 | DBT, New Delhi | 58.59 |
| 32. | Carbon nanotube filled natural rubber nanocomposites. | 2010-2013 | UGC-DAE | 4.00 |
| 33. | Development of high performance rubber modified epoxy resin/clay nanocomposites | 2008-2011 | UGC,New Delhi | 8.89 |
| 34. | Acetic Anhydride Mediated Cyclodehydration of Various N-Substituted Maleamic Acids to Form Maleimido Derivatives – A Computational Study | 2012-2014 | UGC, New Delhi , | 25.00 |



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|---|---|------------|-------------------------|-------|
| 35. | Copper catalysed C-C, C-O and C-S bond formations using N and O containing bidentate ligands. | 2013-2016 | KSCSTE | 15.85 |
| 36. | High permooance polymer blend from epoxy resin and PTT for aerospace application | 2009-20012 | DRDO | 25.3 |
| 37. | Indo-Poland Collaborative Research Project, | 2013-2016 | DST, New Delhi | 5.42 |
| 38. | Hierarchial biocomposites from Isora fibres and unsaturated polyester | 2014-2016 | DST-Austria | 15.00 |
| 39. | Nano fillers in Polymeric systems | 2010-11 | General cables, USA | 1.5 |
| School of Environmental Sciences | | | | |
| 40. | National Vegetation Carbon Pool – Kerala Region | 2011-2013 | ISRO | 4.50 |
| 41. | Mercury geochemistry in agricultural wetland ecosystem | 2012-2015 | DST-SERB | 25.87 |
| 42. | Mercury pollution in the sediments of Vembanad Wetland: a chronological approach | 2012-2016 | UGC | 2.85 |
| 43. | Chemical transformation and bioaccumulation of Mercury in the Vembanad wetland ecosystem | 2008-2012 | MoES | 65.00 |
| 44. | Accumulation of Mercury and Cadmium in Benthic Food Web of Cochin Estuary - a Stable Isotope Approach | 2012-2015 | KSCSTE, Govt. of Kerala | 10.85 |



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|-----|---|-----------|-----------------------------|-------|
| 45. | Minor Project :Impact of Climate Change on the Mercury Geochemistry in a Tropical Wetland Ecosystem | 2012 | DoECC, Govt. of Kerala | 0.38 |
| 46. | Minor Project :Geochemistry of selected heavy metals in Kuttanad agricultural wetland ecosystem | 2013 | DoECC, Govt. of Kerala | 0.58 |
| 47. | Evolution of Karamana river basin and its implications on hydrogeology: A geomatics approach using morphometric analysis | 2013-2016 | KSCSTE-BTL, Govt. of Kerala | 15.96 |
| 48. | Pulse radiolysis of biomolecules | 2010-2012 | Indo-French ARCUS Project | 25.00 |
| 49. | Radiation and photochemical studies of chitosan modified polycyclic aromatic hydrocarbons (Environmental Pollutants) | 2009-2012 | BRNS | 15.00 |
| 50. | Sonochemical degradation of organic water pollutants | 2012-2015 | KSCSTE | 14.2 |
| 51. | An investigation on the potential microalgal species for the production of biodiesel from Kuttanad wetland ecosystem, Kerala. | 2012-2015 | UGC | 5.49 |
| 52. | Nationwide Environmental Gamma Radiation Monitoring Using TLDs | 2014-2016 | BRNS | 10 |
| 53. | Phytoremediation of Wastewater Contaminated With | 2012 | DOECC, Govt. of Kerala | 0.5 |

| | | | | |
|-----|--|-----------|------------------------|------------------|
| | Heavy Metals using Constructed Wetlands and Nutrient Film Technique (NFT) | | | |
| 54. | Household consumption pattern of selected resources in Ernakulam and Kottayam districts - A comparative assessment | 2012 | DOECC, Govt. of Kerala | 0.35 |
| 55. | Recovery of Energy and Manure from solid waste : a step towards mitigation of Climate Change | 2012 | DOECC, Govt. of Kerala | 0.6 |
| 56. | Carbon sequestration potential of selected Earthworm species | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 57. | Estimation of Greenhouse Gas Emission from Wetlands and Paddy fields | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 58. | Greenhouse Gas Emission from septic tanks : a preliminary assessment | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 59. | Enzymatic saccharification of water hyacinth for the production of Bioethanol: An utilization approach for the control | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 60. | Rhizosphere remediation of agro pollutants; An investigation from Kuttanad wetland ecosystem, Kerala | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 61. | Mercury Geochemistry in the Sediments of Kongsfjorden, Ny-Alesund, Arctic | 2013-2015 | ESSO-NCAOR, MoES | Logistic support |



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|---|---|-----------|---|-------|
| 62. | Development of Self-contained, PV powered domestic toilet and waste water treatment system. | 2014-2015 | California Institute of Technology, USA | 11.4 |
| 63. | Microbial Fuel Cells | 2014 | University of West of England (UWE), Bristol, UK | Nil. |
| 64. | An Interdisciplinary and Community Oriented Innovative Approach Towards Sustainable Development | 2012-2015 | UGC / Obama-Singh 21 st century knowledge initiative/ with Brown University, Duke University and Plymouth State University | 62.5 |
| 65. | Pulse radiolysis of biomolecules | 2010-2012 | Indo-French ARCUS Project | 25 |
| School of Gandhian Thought And Development Studies | | | | |
| 66. | “Vulnerability of Elderly Widows in Kerala” (Dr.Sandhya R S) | 2011-12 | UGC | 7.27 |
| 67. | Impact of Public Policy and Rural Re-construction: An Analysis of Gandhian Approach (Dr. D. Nirmala Devi) | 2012-14 | UGC | 5.66 |
| 68. | "Human Rights & Tribal Development:A Comparative study on the Malaipandaram Tribes in Pathanamthitta and Kollam Districts in Kerala" (Smt. Manjusha KA) | 2015-16 | ICSSR | 20.00 |
| School of International Relations and Politics | | | | |
| 69. | Terrorism and Nuclear deterrence in South Asia: A Study on the Issues and Challenges in | 2010-12 | ICSSR | 3.93 |



| | | | | |
|--|--|----------------|---------------------------------------|------|
| | India's National Security Strategy | | | |
| 70. | Major Research Project on "Statelessness, Citizenship and Human Security: A Study on the Repatriated Tamils in Kerala" | 2011-13 | ICSSR | 5.26 |
| 71. | Promoting India Study Programme in Mahatma Gandhi University | 2014-15 | Kerala State Higher Education Council | 9.78 |
| 72. | WTO, TRIPS and South Asia | 2014- | UGC | 8.70 |
| School of Letters | | | | |
| 73. | Creation of a web portal about Changampuzha Krishna Pillai | | UGC | 9.44 |
| 74. | The politics of power engendered by the new generation media in the language and culture of Kerala | | UGC | 7.89 |
| School of Management and Business Studies | | | | |
| 75. | A study on the marketing strategies adopted by small scale industries in Ettumannur. | 2012, 6 months | UGC | 0.15 |
| 76. | "Challenges And Opportunities In Back Water Tourism: A Case Study", 2010-2012 | 2012, 6 months | UGC | 0.15 |
| 77. | Loan Portfolio of SHGs in Kerala | 2012, 6 months | UGC | 0.15 |
| 78. | A study on the entrepreneurial behavior of Kudumbashree units in Ettumannur Grama Panchayat | 2012, 6 months | UGC | 0.15 |



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|--|--|----------------|---|-------|
| 79. | Utilization of internet and IT tools in the management of higher educational institutions. | 2012, 6 months | UGC | 0.15 |
| 80. | A Study on the working of Fisheries Cooperative Society in Kerala | 2011-13 | UGC | 5.00 |
| 81. | Financial sustainability of SHG in Kerala | 2011 | UGC | 1.00 |
| 82. | Minor Research Project on "Moving Object Databases | 2011 | UGC | 1.00 |
| 83. | "Sustainable Tourism: A Case Study On Kumarakom, Kerala" | 2011 | UGC | 1.00 |
| School of Pure And Applied Physics (SPAP) | | | | |
| 84. | Sol-Gel Synthesis and characterization of tellurite based device materials | 2012-2015 | UGC-CSIR | 15.42 |
| 85. | Dr Nandakumar Kalarikkal Dynamics of Plasma plume evolution during laser ablation of metal targets in stationary and flowing liquid media | 2012-2015 | DST | 40.0 |
| School of Social Sciences | | | | |
| 86. | "Unfavorable Inclusion of Dalits in Higher Education: A Study on the Linkages of Colonies, Schools and Colleges in Kerala" | 2014-15 | Kerala State Higher Education Council, Government of Kerala | 1 .00 |



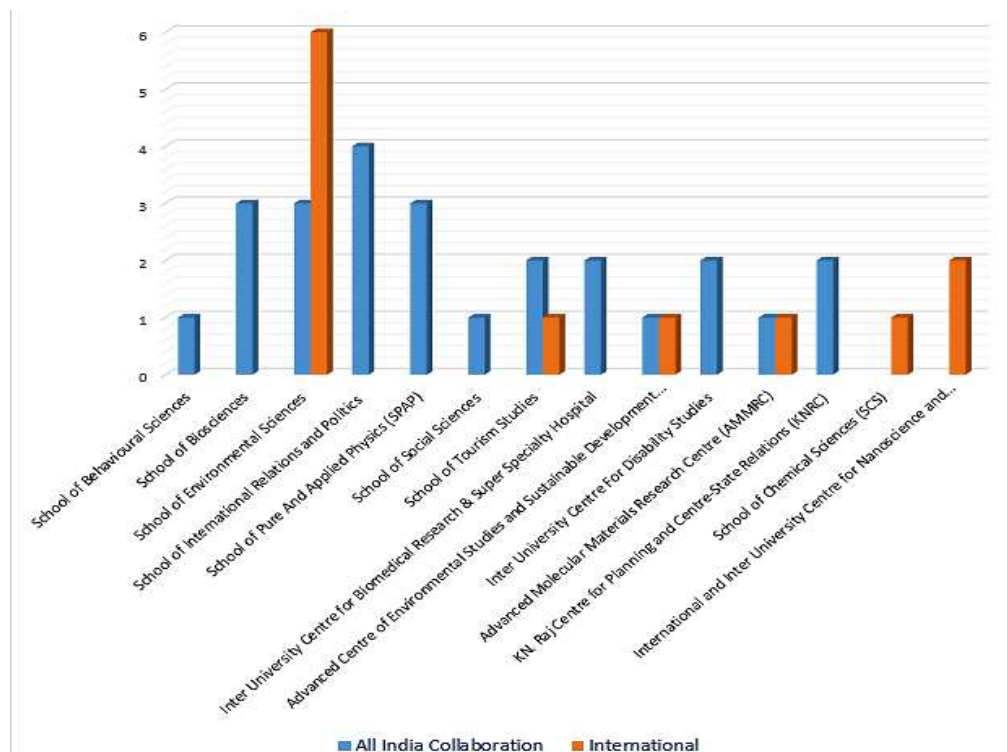
| School of Tourism Studies | | | | |
|--|---|-------------|---|--------|
| 87. | Social Media as an influencer among foreign tourists visiting India | 2014 – 15 | Indian Institute of Tourism and Travel Management | 1.00 |
| International and Inter University Centre for Nanoscience and Nanotechnology | | | | |
| 88. | Development of multi walled carbon nanotube filled polycarbonate/ polypropylene double percolating conductive polymer blend nanocomposites for electromagnetic interference shielding Gaskets for mobile phones | 2012-2015 | MeitY | 41.82 |
| 89. | Development of engineered nanostructured materials for high performance application | 2010-2013 | DST Nano Mission | 524.06 |
| 90. | High performance nylon clay nanocomposites for dental applications | 2011-2014 | ICMR | 25.00 |
| 91. | Plasma modification of polymers | 2010-2012 | Surface treat, Czech Republic | 5.00 |
| 92. | Development of nanocomposites for aerospace defense and automotive applications, , | 2011 – 2014 | SARD – KSCSTE | 29.60 |
| Institute for Intensive Research in Basic Sciences (IIRBS) | | | | |
| 93. | Synthesis of few Medicinally Important Chiral Molecules Derived from Renewable Resources | 2012-15 | DST, Govt. of India, Project No.SR/S1/OC-98/2012–dated 07.03.2013 | 55 |
| 94. | Ex-chiral pool synthesis towards few molecules of Anticancer & Anti-tuberculosis Likeness | 2012-15 | CSIR Project No.02(0101)/12/E MR – II dated 31.10.2012 | 30 |



| KN. Raj Centre for Planning and Centre-State Relations (KNRC) | | | | |
|--|--|-----------|--|-------|
| 95. | Free Trade Agreement and Agrarian Economy of India: A study with special reference to Kerala | 2010-2012 | UGC major project | 7 |
| 96. | Role of Institutions in the development of Plantation Agriculture. A study of Rubber producers' societies in India | 2014 | Centre for Development Studies | 0.75 |
| 97. | Asset Management in Local Governments | 2015-16 | World Bank/ Decentralisation and Analysis Cell , Govt. of Kerala | 2. 50 |
| Total | | | Rs. 1821.35 lakhs | |

b. Inter-institutional collaborative projects and grants received:

i) All India collaboration





| Sl. No. | Project Title | Period | Funding agencies | Total Fund Rs in Lakhs |
|---|---|-----------|---|------------------------|
| School of Behavioural Sciences | | | | |
| 1. | GFATM Project - SAKSHAM (The Global Fund to Fight AIDS, Tuberculosis and Malaria, Round 7, HIV/AIDS Counselling Programme) | 2009-14 | WHO programme funded through Tata Institute of Social Sciences (TISS), Mumbai | 93.12 |
| School of Biosciences | | | | |
| 2. | Boost to University Interdisciplinary Life Science Departments For Education And Research (BUILDER) | 2012 | BT/PR4800/INF/22/152/2012 DBT | 450.00 |
| 3. | Molecular mechanism of antidiabetic activity of Costus pictus (No. 025/IBRS/KBC/2013 Dated. 11.11.2013) | 2013 | Kerala Biotechnology Commission-KSCSTE- Industry Partner-Arjuna Natural Extracts. | 19.00 |
| 4. | Health promoting capabilities of potential probiotic strains isolated from infant gut microflora | 2016 | ICMR (Collaborative with Dr. Sabu Thomas, Scientist E II as CO-PI, Rajiv Gandhi Centre for Biotechnology) | 25.00 |
| School of Environmental Sciences | | | | |
| 5. | DAE-IUC | 2010-12 | Heavy ion induced modification of DNA and its components | 3.5 |
| 6. | National Vegetation Carbon Pool – Kerala Region | 2011-2013 | IIRS, ISRO | 4.5 |
| 7. | Nationwide Environmental Gamma Radiation Monitoring Using TLDs (A National Mission programme) | 2014-2016 | BRNS | 10.00 |



| | | | | |
|---|--|---------------|--|-------|
| 8. | Investigation of the spatial distribution of uranium and associated water quality parameters in five central districts of Kerala | 2015 onwards | BRNS | 22.92 |
| School of International Relations and Politics | | | | |
| 9. | Paddy Culture in Kuttanad, Kerala: Folk Traditions, Rituals and Festivals | 2012-14 | Indira Gandhi International Centre for the Arts | 4.30 |
| 10. | MGNREGS Assessment Evaluation Study- Ernakulam District. | 2013-15 | State Institute of Rural Development | 5.40 |
| 11. | MGNREGS Assessment Evaluation Study- Pathanamthitta District. | 2013-15 | State Institute of Rural Development | 5.40 |
| 12. | MGNREGS Assessment Evaluation Study- Kollam District. | 2013-15 | State Institute of Rural Development | 5.40 |
| School of Management and Business Studies | | | | |
| 13. | Student development programme | 2013-16 | MDI, GURUGAON | Nil |
| School of Pure and Applied Physics (SPAP) | | | | |
| 14. | National pooled funds utilized for the promotion of teaching & research in Astronomy & Astrophysics | | MoU with (IUCAA, Pune) | Nil |
| 15. | National pooled funds utilized for the science development for the Square Kilometer Array | | MoU with Square Kilometer Array India Consortium | Nil |
| 16. | National pooled funding by India TMT (Thirty Meter Telescope) | | International Science Development Team for Milky Way & Nearby Galaxies | Nil |
| School of Social Sciences | | | | |
| 17. | Evaluation of Eco development Programme at Periyar Tiger | Periyar Found | 2. Years | 6.20 |



| | | | | |
|---|--|------------------------------------|---|-------|
| | Reserve), (From March, 2009 April, 2011) | ation, Periyar Thekk ady. | | |
| School of Tourism Studies | | | | |
| 18. | “Social Media as an influencer among foreign tourists visiting India” | 2014-16 | Indian Institute of Tourism and Travel Management and Ministry of Tourism, Govt. of India | 1.00 |
| 19. | Discover Kottayam | 2014-16 | District Tourism Promotion Council (DTPC), Kottayam | 1.66 |
| Inter University Centre for Biomedical Research & Super Specialty Hospital | | | | |
| 20. | IUCBR and Bangur Institute of Neurology, Kolkata | | Bangur Institute of Neurology, Kolkata | 44.00 |
| 21. | IUCBR and Manovikas Kendra, Kolkata - | | Manovikas Kendra, Kolkata | 84.70 |
| Inter University Centre For Disability Studies | | | | |
| 22. | Empowerment of Persons with Disabilities (PWDs) through Community Integration” | | Santhigiri Rehabilitation Institute, Vazhithala P.O, Thodupuzha-685583 | 2 .00 |
| 23. | “Skill development training programme to the persons with disabilities” | | Theeradesa Raksha Social Welfare Society (TRSWS), Reg. No. 566/2001, Sidco building, Beach Road, West Hill P.O, Calicut-673005. | |



| Advanced Molecular Materials Research Centre (AMMRC) | | | | |
|--|---|--------------------------------|---|-------------------------------|
| 24. | “Propellant Burn rate modifiers (PI: Prof. Suresh Mathew, Co-PI: Dr. P. Radhakrishnan Nair) | 2016- 18 | ISRO | 19.20 |
| KN. Raj Centre for Planning and Centre-State Relations (KNRC) | | | | |
| 25. | Conducting Training programmes Participation in training programmes | 2016- 17 2015- 16 | Collaboration with Gulati Institute of Finance and Taxation, Trivandrum; Institute for Studies in Industrial Development, New Delhi | Collabo rative projects |
| Total | | | Rs. 806.08 lakhs | |

ii) International (12 nos)

| School of Chemical Sciences (SCS) | | | | |
|--|--|-----------------|---|---------------------|
| 1. | Hierarchical biocomposites from Isora fibres and unsaturated polyester | 2014- 2016 | DST-Austria | 15 .00 |
| 2. | “Study of Fundamental Chemical and Physical Properties of Magnetic Ionic Liquid Nanofluids” | 2013 onwards | Indo-Poland Collaborative Research Project- Department of Science & Technology, New Delhi | 5.42 |
| School of Environmental Sciences | | | | |
| 3. | Long - Term Monitoring of Kongsfjorden System of Arctic region for climate change studies | 2015- 2016 | ESSO-NCAOR, MoES | Logistic support |
| 4. | Long Term Environmental Monitoring of Fjord Ecosystems, Ny-Ålesund (Arctic) | 2016- 2017 | ESSO-NCAOR, MoES | Logistic support |



| | | | | |
|--|--|-----------|--|---------|
| 5. | Development of Self-contained, PV powered domestic toilet and waste water treatment system. | 2014-2015 | California Institute of Technology, USA | 11.4 |
| 6. | Microbial Fuel Cells | 2014 | University of West of England (UWE), Bristol, UK | Nil. |
| 7. | An Interdisciplinary and Community Oriented Innovative Approach Towards Sustainable Development | 2012-2015 | UGC / Obama-Singh 21 st century knowledge initiative/ with Brown University, Duke University and Plymouth State University | 62.5 |
| 8. | Pulse radiolysis of biomolecules | 2010-2012 | Indo-French ARCUS Project | 25.00 |
| School of Tourism Studies | | | | |
| 9. | Project for Mango Languages | 2011 – 12 | Mango Languages, USA | 0.75 |
| International and Inter University Centre for Nanoscience and Nanotechnology | | | | |
| 10. | studies on cellulose nano Crystals and there application in nano composite with varying technological applications | 2014-2015 | India-Brazil collaboration | 27.2935 |
| 11. | Nano biomaterials water purification | 2016-17 | Researcher Links scheme offered within the Newton Fund, the British Council & Royal Society of Chemistry, London | 5.00 |
| 12. | Crosslinked polyethylene nanocomposite for cable insulating application | 2016-17 | University of Mara, Malaysia | 3.00 |
| Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) | | | | |
| 13. | Nanofiber structures for efficient enzyme immobilization in membrane applications | | Network project between Department of Energy Conversion and Storage, Technical University of Denmark (DTU) and Mahatma Gandhi University (MGU) | 4.26 |



| Advanced Molecular Materials Research Centre (AMMRC) | | | | |
|---|---|---------|--|------|
| 14. | “Study of fundamental Chemical and Physical properties of magnetic ionic liquid nanofluids”. collaboration with Department of Physics, Rzeszow University of Technology, Poland (PI: Prof. Suresh Mathew) | 2015-17 | DST, Govt. of India & (funding agency in Poland) | 5.10 |
| Total | | | Rs. 164.72 lakhs | |
| Total Grand | | | Rs. 971.52 lakhs | |

3.3 Research Facilities

3.3.1 What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?

The internal quality assurance cell of the university periodically examined the important funding calls from DST, DBT, DRDO, UGC, etc and same was communicated to faculty members’ in-order to submit research proposal to different funding agencies. This resulted in many funded projects from different funding agencies leading to excellent infrastructure at the campus. These include PURSE, SAIF, FIST, SARD, etc. Additionally university has separate budget allocation for infrastructure development at the schools and centres. Details are presented below.

A. (PURSE): (All Science Departments)

Amount Received: **Rs. 1600 Lakhs**

Common Facilities set-up from this programme

1. LC-Q-ToF-MS (Liquid chromatography Quadrupole Time-of-Flight Mass spectrometer)
2. High pressure thin layer chromatography (HPTLC)
3. Ellipsometer
4. Rheocord Mixer/Extruder
5. Single Crystal XRD
6. Inductively Coupled Plasma- Mass spectrometer (ICP-MS) with Microwave Digester

Details of Sophisticated Analytical Instrumentation Facility (SAIF): (All Science Departments)

Amount Sanctioned by DST: **Rs. 650 Lakhs**

The major Instruments Sanctioned by DST are;

1. Field Emission Scanning Electron Microscope (FESEM)
2. Liquid Chromatography-Mass Spectrometer (LC-MS/MS)
3. Confocal Raman Spectrometer with AFM
4. Fluorescence Spectrometer with life time detector

Two equipment, 1) Confocal Raman Spectrometer with AFM and 2) Fluorescence Spectrometer with life time detector have been installed and are functional.

B. DBT BUILDER (School of Biosciences & Inter University Centre for Nanoscience & Nanotechnology):

Outlay of Rs 451.8814 Lakhs (Rupees Four Crore FiftyOne lakh Eighty Eight ThousandOne hundred and Forty only) for a period of 5 years (2012-17)

List of equipments purchased under DBT BUILDER Programme

Name of Instruments procured: CO₂ incubator with CO₂ cylinder, sterile aseptic system with pump, HPLC preparative, Ice flaker, dehumidifier, rt-pcr, ph meter, top loading balance, students microscope, image based cytometer, table top centrifuge, gel documentation system, electrophoretic unit with western blot, water purification system, dynamic angle contact meter, class ii biosafety cabinet, multimode reader, ftir with atr, uv-2600 isr-2600 plus, inverted microscope with phase contrast and fluorescence attachments, laminar air flow, hot air oven, colony counter, bacteriological incubator, -80 deep freezer, hptlc, langerdorff perfusion system

In addition, a Small Animal Maintenance facility of 2335 Sq.ft has also been completed with financial support from DBT under the BUILDER Programme. An Animal Cell Culture facility is also available in the School of Biosciences.

C. FIST sanctioned in different Schools:

School of Pure & Applied Physics:

Name of the Equipment/Item procured: Network Facility - 2 Nos Servers and 16 Nos Computer, Matlab software, IMSL Software, High Temp Furnace, Centrifuge 2 nos, Water Distillation unit 3 Nos, Hot Air Oven, Furnace 2 Nos, Michelson Interferometer, He Ne Laser, Sodium Vapor Lamp, Magnetic Hysteresis loop Tracer, Study of P N junction set up, Hall effect set up, Ultrasonic Interferometer, Dielectric Constant kit Solid, CRO 2 nos, DMM, DSO, Crystal Growth Set up 2 Nos, pH meter 4 Nos, Analytical Balance 3 Nos.



School of Environmental Sciences:

Name of the Equipment/Item procured: LC-MS (Shimadzu), Petrological Microscope, Computer Lab.

School of Chemical Sciences;

Name of the Equipment/Item procured: Raman Spectrometer, Thermogravimetric Mass spectrometry

UGC (SAP, DRS) Sanctioned in different Schools/Centres

School of Chemical Sciences:

Name of the Equipment/Item procured: BET analyzer, Microwave reactor

School of Pure & Applied Physics

Name of the Equipment/Item: Spectrofluorimeter-Fluoromax 4 with life time measurement Workstation 2 Nos., Differential Scanning Calorimeter (DSC)

D. SARD sanctioned in different Schools/Centres:

School of Environmental Sciences

Name of the Equipment/Item procured: GC-MS –TCD

School of Biosciences

Name of the Equipment/Item procured: Cold centrifuge, PCR Machine, Gel Doc, Biosafety cabinet

International & Inter University Centre for Nanoscience and Nanotechnology

Name of the Equipment/Item procured: Gas permeability tester, Freeze dryer

Inter University Instrumentation Centre:

Name of the Equipment procured: GCMS

Instruments acquired through funded projects:

Scanning Transmission, Electron Microscope, Transmission Electron Microscope, Capillary Electrophoresis, GC-MS, UV Visible Spectrophotometers, PCR Machines, Elisa Readers with Washer, -20 freezers, Dynamic Mechanical analyzer, Differential Scanning Calorimetry, Spectrofluorimeter, Rheometer, Electrospinning, Thermo Mechanical Analyzer, Impact Tester, Universal Testing Machine, Dielectric Spectroscopy, Vector analyzer, Falling weight impact tester, Rubber rheometer, Gas Permeability tester, Extruder, Brabender plastic code, Haake Mixer, FT-IR Compression Moulding, Lyophilizer, Pendulum impact tester, Hand press, HPLC with Mass detector, Laser systems, Sonicators, Homogenizers, Autoclaves, Carbon dioxide incubators, Spin coaters, Cooling ultra centrifuge, Dip Coating, Pulse laser deposition, Z-Scan, Microtomes, Me coupling setup, Spin

coater, Inverted microscopes, Optical microscope, Autocatalytic unitIngenuity laboratory with University of Alberta

E. University Funded Facilities:

School of Physical Education and Sports Sciences

The Department has an advanced Sports Science Lab with equipments for Psychological, Physiological, anthropometric and Bio Mechanical studies. The facility is helpful in conducting various investigations in the respective field of knowledge more scientifically and accurately.

School of Tourism Studies

An SPSS Lab has been established in the School with support from the University.

School of Computer Sciences

The School has set up a dedicated Research Workstation in specialized computing areas under the plan proposal for the year 2015-16.

3.3.2 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

University Library has created a Website hosted in the domain of IT Mission for showcasing the important activities and events of the library. Various online journal archives/e-books purchased on perpetual access, e-resources including e-journals, e-books and databases purchased/subscribed and INFONET e-Journal consortium can be made available for access through library's website www.library.mgu.ac.in

Infonet Lab

Online reading facility is provided in the Infonet lab setup in two rooms. Besides Wi-Fi facility is provided for users with Laptop.

Electronic Theses and Dissertations (ETD) Lab

A Laboratory for Electronic Theses and Dissertations was setup in the Library with the financial assistance provided by the INFLIBNET Centre. Digitization and archiving of theses are carried out at this centre.

Electronic Lab for Visually Challenged

Electronic Lab for Visually Challenged has been set up in the library during October 2015 with an objective to provide reading facilities to blind and low vision library users. The lab has following equipments and software for catering to the specific requirements of the visually challenged persons. As part of providing service, the library started audio recording of books as per request from users who are visually impaired.

Reading Library for Blind and Low Vision

1. JAWS Talking software for the blind
2. MAGic screen magnification software without speech



3. MAGic large print keyboard
4. ZoomEx instant reader
5. Ruby hand held video magnifier
6. Flash desk top print magnifier

Talking book library

1. Angel pro talking Daisy Player-E book for the blind

Braille Book Library

1. Index Basic V-4 Braille Printer
2. Duxbury Braille Translation Software

Online Thesis:

Mahatma Gandhi University had launched the digital archive of Ph.D theses in the web on November 9, 2008. In this regard, the University stands top in many aspects among other Universities in India like the first to initiate digitization of Ph.D Theses, to sign MoU with INFLIBNET in submitting e-theses in to the national repository 'Shodhganga' and to completely digitize all the available Ph.D theses awarded by the University.

A total number of 2238 Ph.D theses awarded by the University are digitally archived in the MGU Online Thesis Library (www.mgutheses.in). These are also uploaded in the Shodhganga, the online digital repository of PhD Theses developed by the INFLIBNET Centre. M.G.University is one among the topmost contributors of online theses to Shodhganga.

Online Information Services

1. Provides information services on demands from users.
2. Library has developed special tools such as Journal Article index (Index of journal articles which are unavailable through internet but available as hard copy in the Periodicals Section of the Library) and
3. Database on Kerala Studies for the promotion of Information services.
4. These special databases are searchable on open access mode in the library website.
5. These services are supplemented with full text document delivery.

Document Delivery Service and Inter Library Loan

The Library collects and issues journal articles and books on Inter Library Loan which are not available in its collection to the users based on their demand, mainly from DELNET(Developing Library Network), NEW Delhi and other resourceful R&D Institutions at National level.

Usage of UGC Infornet Digital Library Consortium

M.G.University is provided with access to UGC-INFONET e-Journal facility provided by the INFLIBNET to selected 199 Universities in India. As per the statistics, the University is placed in the 29th position as on 2013 and 27th



position as on 2014. The access to the facility has been extended to remote departments and Study centres of the university during February 2015.

| Sl No | Name of Journal Database | Usage by Mahatma Gandhi University (No of articles downloaded) | | |
|---|-------------------------------|---|-----------|-----------|
| | | Year 2012 | Year 2013 | Year 2014 |
| 1 | Science Direct | 79476 | 75376 | 87957 |
| 2 | JSTOR | 21250 | 28833 | 27809 |
| 3 | American Chemical Society | 18662 | 18437 | 26728 |
| 4 | Wiley-Blackwell | 13886 | 1313 | 19383 |
| 5 | Springer Link | 10788 | 18064 | 17230 |
| 6 | Royal Society of Chemistry | 5670 | 8517 | 9946 |
| 7 | Taylor and Francis | 4771 | 6168 | 6822 |
| 8 | Institute of Physics | 2990 | 3014 | 3480 |
| 9 | American Institute of Physics | 1696 | 1749 | 3062 |
| 10 | Nature | 1680 | 1182 | 3000 |
| 11 | APS | 1598 | 953 | 2958 |
| 12 | Cambridge University Press | 911 | 1012 | 1375 |
| 13 | Project Muse | 814 | 1197 | 972 |
| 14 | Annual Reviews | 513 | 562 | 909 |
| 15 | Portland Press | 187 | 135 | 661 |
| 16 | Oxford University Press | 152 | 229 | 8 |
| 17 | Project Euclid | 4 | 2 | 4 |
| Total | | 165048 | 166743 | 212304 |
| RANK of M G University out of 199 universities under the UGC-INFONET Consortium | | NA | 29 | 27 |



University Study Centres

There are four Study Centres under the control of University Library. The Study Centres are set up in the campus of affiliated colleges in various locations like Kottayam, Changanacherry, Palai and Thodupuzha. These centres provide reference to the library resources. As an innovative service, the centres are given remote access to all e-resources subscribed/purchased by the University Library including UGC-INFONET e-journal consortium facility through Hi-Tech connectivity. These Centres are intended for the use by the students, faculty and research scholars of affiliated colleges. At present academic community belonging to the college concerned as well as in nearby colleges use the centres. The Study Centres are functioning at various locations under the jurisdiction of the University like:

1. Study Centre, Kottayam situated in CMS College, Kottayam
2. Study Centre, Changanacherry situated in NSS College, Changanacherry
3. Study Centre, Pala situated in St Thomas College, Pala
4. Study Centre, Thodupuzha situated in Newman College, Thodupuzha.

3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?

Yes. Inter University Instrumentation Centre (IUIIC): A joint venture of State Government and University: This facility for advanced instrumentation is available to all the researchers from the University as well as other Universities of Kerala including affiliated colleges (initial funding Rs. 225 Lakhs). The users are also from other parts of the country including industries.

The University has also set-up the Sophisticated Analytical Instrument Facility (SAIF) with the help of DST, New Delhi. The facility is open to all researchers from anywhere in India (Rs. 650 Lakhs)

3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

Yes. Hostel facilities are available for research scholars. Guest house accommodation is made available for summer fellows of various academies and visiting scientists (national/international). All research facilities in the University, including Library and instrumentation, are made available to them.



3.3.5 Does the university have a specialized research centre/ workstation on campus and off-campus to address the special challenges of research programmes?

Centre for High Performance Computing

High performance computing applications in Physics, Chemistry & Biology which helps the students and research scholars of the University to do computational work (for high computing, parallel computing and network computing). Adequate software support and computer facility are available in the centre.

3.3.6 Does the university have centres of national and international/ recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Yes. The university has one International and Interuniversity Centre for Nanoscience and Nanotechnology which offers interdisciplinary programmes like MS, M.Phil., Integrated MSc, Ph.D (IGPh.D), Ph.D.

The centre is equipped with many sophisticated instruments which have been procured through various projects funded by different agencies. The following instruments are available for performing high quality research in different areas of nanoscience and nanotechnology.

1. Atomic Force Microscope
 2. Autoclave
 3. Brabender
 4. Carbon Dioxide Incubator
 5. Compression Moulder
 6. Cooling Centrifuge
 7. Dielectric Measurement System
 8. Differential Scanning Calorimeter
 9. Dynamic Contact Angle Meter
 10. Electrospinning Unit
 11. High Resolution Transmission Electron Microscope
 12. Laminar Air Flow System
 13. Lyophilizer
 14. ME Coupling Set up
 15. Nd:YAG Laser
- Plasma Ablation
Pulsed Laser Deposition



16. Z-Scan
17. Spin Coater
18. Ultrasonicators
19. UV-Visible-NIR Spectroscope
20. Vector Network Analyzer
21. X-ray Diffractometer

These facilities are being regularly used by researchers from other laboratories in India and abroad.

The university also has an Inter University Instrumentation Centre (IUIIC) meant for sophisticated instrumentation in interdisciplinary areas involving Chemistry, Physics, Biology, Environmental Sciences and Nanoscience. The thrust areas of the centre are as follows:

1. Water pollution monitoring
2. Air pollution monitoring
3. Advanced oxidation processes
4. Environmental and biological application of mass spectrometry
5. Nanoscience and nanotechnology
6. Membrane science and technology
7. Phytochemistry & Natural Product Research
8. Bioremediation
9. Environmental biotechnology
10. X-ray crystallography

Major ongoing research project: Setting up of a National Centre for Sophisticated instruments (Sophisticated Analytical Instrument Facility (SAIF)-from DST for which Rs. 650 lakhs has been sanctioned.

The major Instruments sanctioned by DST are;

1. Field Emission Scanning Electron Microscope (FESEM)
2. Liquid Chromatography-Mass Spectrometer (LC-MS/MS)
3. Confocal Raman Spectrometer with AFM
4. Fluorescence Spectrometer with life time detector

Two equipment, 1) Confocal Raman Spectrometer with AFM and 2) Fluorescence Spectrometer with life time detector have been installed and are functional.

Advanced Centre of Environmental Studies and Sustainable Development (ACESSD)

The outstanding contributions of the Advanced Centre of Environmental



Studies and Sustainable Development in the field of environmental sciences has resulted in the award of the prestigious Obama-Singh 21st Century knowledge initiative grant for Indo-American collaboration in the field of higher education.

Interdisciplinary programmes and departments involved: Interdisciplinary Scientific Research involving Chemistry, Environmental Science, Forestry, Human Ecology, Social Sciences and Life Sciences

Research thrust areas as recognized by major funding agencies

1. Climate Change Studies
2. Green Chemistry and Technology
3. Pollution Studies and Management
4. Earthworm Studies
5. Human Ecology and Conservation
6. Biodiversity and Natural History
7. Sustainable Development
8. Biophysical studies on biomolecule-pollutant interaction

KSCSTE, Govt. of Kerala has also granted research funds for the study of Polyelectrolyte multilayer membrane for the treatment of papermill effluent to the tune of Rs. 26 lakhs.

A financial assistance of Rs 31.09 Lakhs has been granted by DST for a project on nanoscaled coir matrix for the removal of biological contaminants from water.

ACCESSED has also entered into a collaborative project with TechnicaUniversity of Denmark (Rs 4.26 Lakhs- year wise)

University also has the following inter university centres where excellent infrastructure facilities being generated. These facilities also given to from researchers from other laboratories

- *Inter University Centre for Bio Medical Research & Super Speciality*
- *Inter University Centre for Disability Studies*
- *Inter University Centre for Social Science Research and Extension*
- *Inter University Centre for Studies in Science of Music*

Inter School Centres

University Centre for International Co-operation (UCIC)

Functioning as a co-ordinating centre for admission and academic related activities of international students in various schools/departments/centres

Research thrust areas as recognized by major funding agencies

1. India Study Programme



2. Study Abroad Programme
3. International Faculty Interaction through Summer Schools and FDP
4. MOU & International Institution Membership

UCIC received a financial award of Rs. 10 Lakhs from Higher Education Council, Government of Kerala for promoting India Study Programme. UCIC received the grant of Rs. 25 lakhs from state government for various activities of the centre.

3.4 Research Publications and Awards

3.4.1 Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

School of International Relations and Politics

The School publishes two journals-*Indian Journal of Politics and International Relations* (ISSN: 0973- 5011) and the *South Asian Journal of Diplomacy* (ISSN: 2229-3361). Both have an international editorial board including people of eminence like Immanuel Wallerstein, Prabhat Patnaik, Neera Chandhoke, James Petras etc. The articles are peer reviewed and the only best quality articles are eventually published. The first journal is a biannual while the second one is annual.

School of Pedagogical Studies

The School publishes a research journal in education named PEDAGOGICS. The Editorial Board comprises of the Editor who is the Director of the School, followed by an Associate Editor and two members who are also the Faculty of the School. The Patrons of the journal are the Vice-Chancellor of Mahatma Gandhi University, Dr. A. Sukumaran Nair, the former Vice -Chancellor of Mahatma Gandhi University and Dr. P. M. Jaleel, eminent educationist and the founder Director of the School. PEDAGOGICS is a peer reviewed academic journal with ISSN 2229-7618.

School of Computer Sciences

The School published an international journal titled *Mahatma Gandhi University International Journal on Computing and Communication* (MGU IJCC), December 2012. ISSN: 2318-8850.

The editor-in-chief is Prof. Dr. R. Vijayakumar and the Chief Patron is the Vice Chancellor. The editorial board comprises of internationally reputed scientists.



School of Letters

Haritham. The faculty constitutes the editorial board of the journal which publishes invited articles, creative writing and translations.

K.N Raj Study Centre for Planing and Centre-State Finacial Relations:

Journal of Political Economy and Fiscal Federalism (JPE &FF) ISSN: 2395-6976. The editorail board includes: Jagdish Bhagwati (Columbia University, USA) James Petras (Binghamton University, USA) Henry Giroux (MCMaster University, Canada) Eric Rahim (University of Strathclyde, UK) Prabhat Patnaik (Jawaharlal Nehru University, New Delhi)

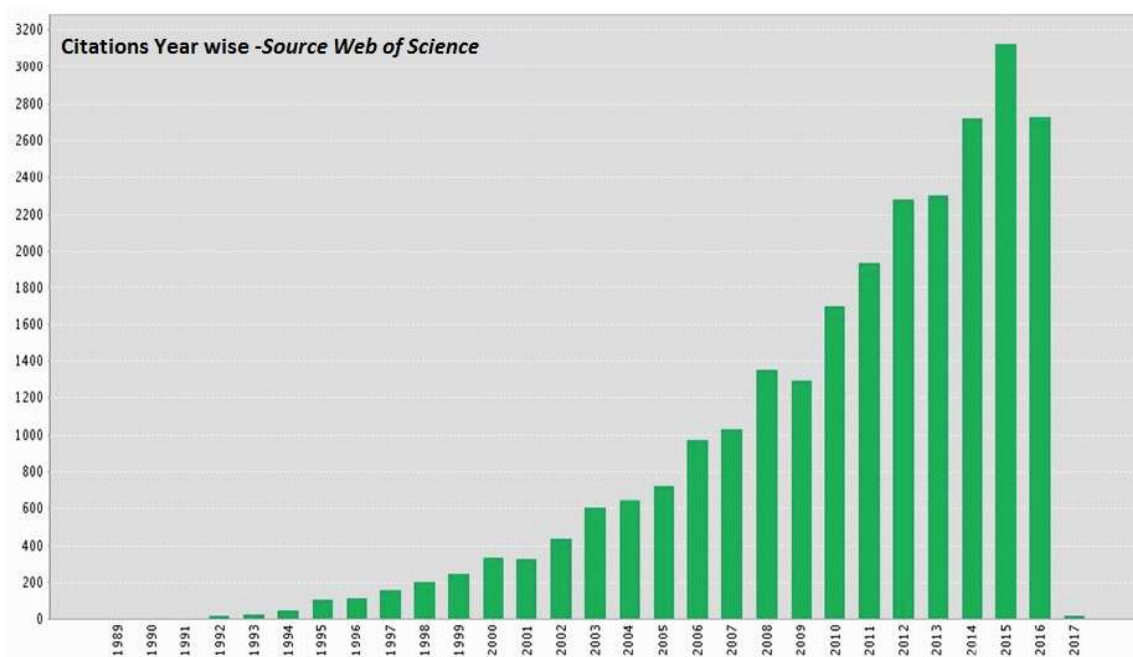
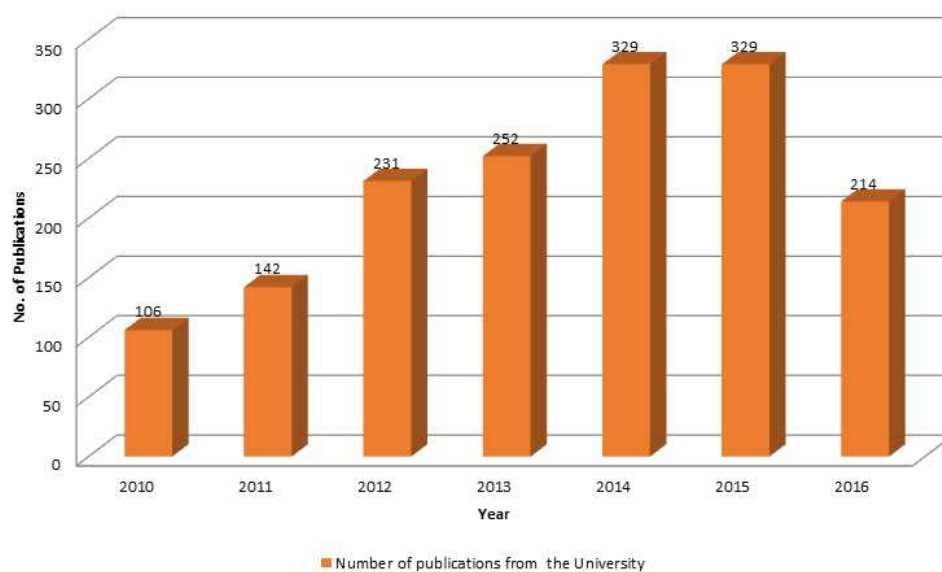
E-Journal: The University publishes a research e-journal which is of interdisciplinary nature covering areas of Science and Social Sciences. Internationally reputed experts are placed as members of the Editorial board and the editor-in-chief is Dr. Siby Zacharias.

3.4.2 Give details of publications by the faculty:

| Name of School/ Department | Number of papers published in peer reviewed journals (national /international) | | Chapters in Books | Books edited | Books with ISBN with details of publishers | Articles in popular publications | Conference proceeingss | Citation Index – average | SNIP | SJR | Impact Factor – range / average | h-index |
|---------------------------------------|--|----------|-------------------|--------------|--|----------------------------------|------------------------|--------------------------|-------|-----------|---------------------------------|---------|
| | International | National | | | | | | | | | | |
| Behavioural Sciences | 60 | 28 | 2 | - | 4 | 20 | 37 | | | | | |
| Biosciences | 220 | 17 | 18 | 1 | 1 | - | 88 | 11.39 | - | - | 1- 4.38 | 2-13 |
| Chemical Sciences | 393 | | 22 | 44 | - | - | 27 | 2958 | - | - | 0.5- 6.6 | 13.4 |
| Computer Sciences | 15 | 1 | 17 | 1 | 2 | - | - | 1-17/7 | - | 0.14-0.24 | 1.6 to 2 | 2 |
| Environmental Sciences | 151 | - | 4 | 0 | 1 | - | - | 407 | 1.215 | 0.885 | 2.655 | 6-19 |
| Gandhian Thought& Development Studies | 15 | 22 | 2 | 1 | 1 | 1 | - | - | - | - | - | - |
| Indian Legal Thought | 1 | 29 | - | - | - | | | - | - | - | - | - |
| International Relations& Politics | 08 | 33 | 20 | 1 | 6 | 38 | | - | - | - | - | 2-12 |
| Letters | - | 14 | 25 | 9 | 32 | 82 | 3 | - | - | - | - | - |

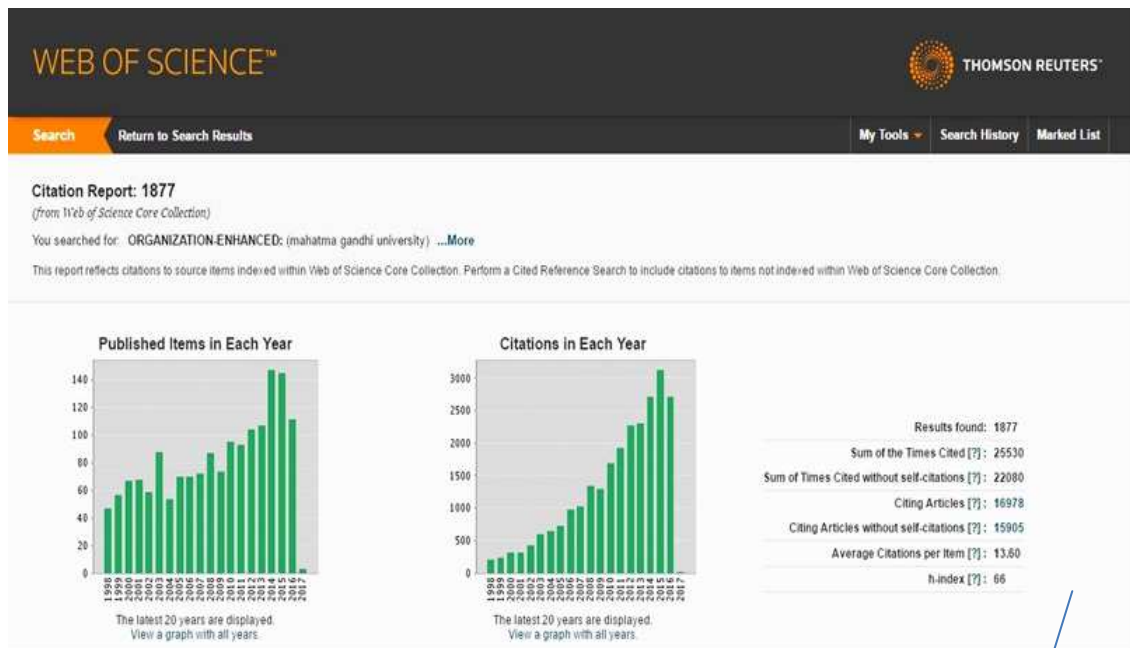
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|--|-----|----|----|----|----|-----|-----|-------|---|---|------------|-------|
| Management & Business Studies | 14 | 48 | 64 | - | - | | | - | - | - | - | - |
| Pedagogical Sciences | 08 | 86 | 13 | - | 2 | 09 | | - | - | - | - | - |
| Physical Education & Sport Sciences | - | 12 | - | - | 1 | | 15 | - | - | - | - | - |
| Pure & Applied Physics | 220 | 02 | 9 | 6 | -- | | 6 | 360 | | | 0.37-6.227 | 10 |
| Social Sciences | - | 09 | 18 | 1 | 9 | 16 | 26 | - | - | - | - | |
| Tourism Studies | 5 | 01 | 1 | 1 | 5 | 200 | 7 | 13 | - | - | | 2 |
| Department of Life long learning and extension | | 02 | | | 1 | | 2 | | | | | |
| IIUCNN | 277 | - | 43 | 52 | | | 23 | 14318 | | | 1.5-27.18 | 14-78 |
| ACESSD | 61 | - | 3 | 13 | 8 | | 196 | 475 | | | 1-7 | 6-14 |
| IUCBR | 77 | -- | 4 | | | | | | | | | |
| IUCDS | - | 14 | 02 | | | | 11 | | | | | |
| IUIC | 307 | - | 3 | 13 | 8 | | 100 | | | | | |
| IUCSSRE | - | 7 | 6 | | 2 | | | | | | | |

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|--|----|----|----|---|---|---|----|--|--|--|--|--|
| AMMRC | 10 | - | - | - | - | - | - | | | | | |
| CHPC | 16 | - | - | - | - | - | 5 | | | | | |
| ICCS | - | 17 | 9 | 4 | 4 | | 15 | | | | | |
| IIRBS | 08 | -- | - | - | - | - | 04 | | | | | |
| KNRC | - | 23 | 10 | 4 | 2 | 2 | | | | | | |
| NIPST | - | - | - | - | 1 | | 05 | | | | | |
| University College of Engineering | 26 | - | | - | - | - | 10 | | | | | |
| School of Technology and Applied Sciences | 39 | - | - | - | - | - | 34 | | | | | |
| School of Applied Life Sciences | 07 | - | - | - | - | | | | | | | |
| University College of Teacher Education | 09 | - | - | - | - | | | | | | | |
| Department of Library And Information Science | - | 4 | - | - | - | - | 4 | | | | | |





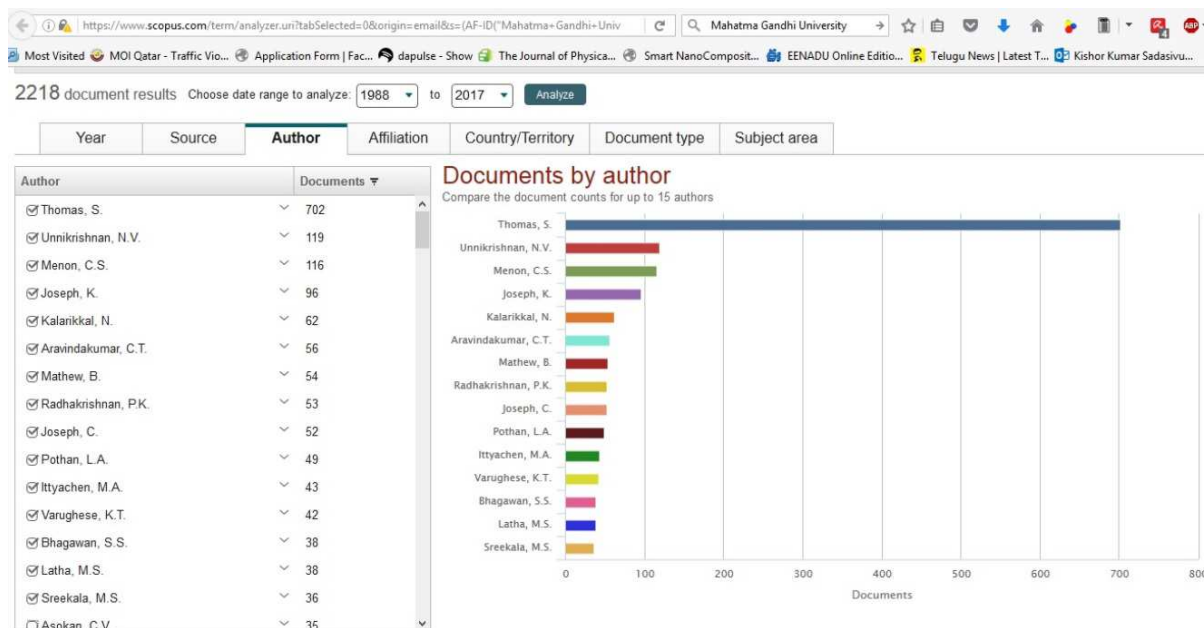
Citation Index of Papers (details from WEB of science)



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|---|
| Results found: 1877 |
| Sum of the Times Cited [?] : 25530 |
| Sum of Times Cited without self-citations [?] : 22080 |
| Citing Articles [?] : 16978 |
| Citing Articles without self-citations [?] : 15905 |
| Average Citations per Item [?] : 13.60 |
| h-index [?] : 66 |



WEB of Science Core Collection Citation Report



Document Counts of faculty (upto 15 Authors; details from WEB of science)

3.4.3 Give details of

a) Faculty serving on the editorial boards of National and International journals

| Sl. No | Name of Faculty | Details |
|--------|-----------------|---|
| 1. | Dr. Sabu Thomas | <p>Chief Editor Nano-Structures and Nano-Objects, Elsevier</p> <p>Editorial Boards:</p> <ul style="list-style-type: none"> • SM Journal of Nanotechnology and Nanomedicine • Nano Advances • Materials Science and Engineering • International Journal of Advances In Engineering Research • World Journal of Biotechnology • Journal of Emerging Materials Technology • Associate Editor, Bulletin of Materials Science • Regional Editor of the journal "Current Smart Materials". • Editor in-Chief of Editorial Board-International Journal of Science World (IJSW) |



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| | | <ul style="list-style-type: none"> • Editorial Member-Flat Chem, Elsevier • Editorial Review Board Member-International Journal of Surface Engineering and Inter disciplinary Material Science. • Journal of Molecular and Applied Bioanalysis |
| 2. | Dr. G Anil kumar | <ul style="list-style-type: none"> • Editorial board member, Universal Journal of Chemistry • Editorial board of Horizon Research Publishing, USA |
| 3. | Dr Suresh Mathew | <ul style="list-style-type: none"> ▪ Editorial Board Member, Science Advanced Today ▪ Associate Editor, Science Letters ▪ Science of Advanced Materials (SAM) –Metal Oxide Nanostructures (2010 Special Edition) ▪ International Journal of Nanotechnology (Interscience) – ICAM-2008 (Special Edition) ▪ Reviewer of various journals of American Chemical Society, Elsevier, Pergamann Press, Springer and Cognizure |
| 4. | Dr. P S Sukumaran, | <ul style="list-style-type: none"> • Member, Editorial board, Guru Journal of Behavioural and Social Sciences. ISSN:2320-9038 |
| 5. | Dr. Rajeev Kumar N | <ul style="list-style-type: none"> • Associate Editor, Guru Journal of Behavioural and Social Sciences, ISSN:2320-9038 |
| 6. | Dr. P.T Baburaj | <ul style="list-style-type: none"> • Editorial Board member, Culture Society and Law, ISSN: 2348-1250 |
| 7. | Dr. K. Muhammad Mustaffa | <ul style="list-style-type: none"> • Editorial Board Member – International Research Journal in Psychology – Psychologist in Social Action. |
| 8. | Sri. Rajesh E | <ul style="list-style-type: none"> • Editorial board member, Medical Science:http://medicalscience.pubmedhouse.com/Home.php • Editorial board member International Journal of Physiology and Pharmacology: http://nepjol.info/index.php/IJPP • Editorial board member, Nepal Journal of Epidemiology: http://nepjol.info/index.php/NJE • Editorial board member, International Journal of Brain Research: http://nepjol.info/index.php/IJBR |
| 9. | Dr .J.G. Ray, School of Biosciences | <ul style="list-style-type: none"> • Member of the Editorial Board of two international Journals: Ecology and Noosphereology Journal of Soil Science |
| 10. | Dr. Keerthi T.R | <ul style="list-style-type: none"> ▪ Iranian Journal of Biotechnology |



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|-----|------------------------|---|
| 11. | Dr. Prakash Kumar B | <ul style="list-style-type: none"> Journal of Practical Biochemistry and Biophysics |
| 12. | Dr. E.K Radhakrishnan | <ul style="list-style-type: none"> Journal of Food & Industrial Microbiology International Journal of Advanced Research and Review |
| 13. | Dr. Bindu V.R. | <ul style="list-style-type: none"> Member, Technical Advisory Committee, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012. ISSN: 2318-8850. |
| 14. | Dr. Anuj Mohamed | <ul style="list-style-type: none"> Member, Technical Advisory Committee, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012. ISSN: 2318-8850. |
| 15. | Dr. R. Vijayakumar | <ul style="list-style-type: none"> Editor, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012. ISSN: 2318-8850. |
| 16. | Dr. C.T. Aravindakumar | <ul style="list-style-type: none"> International Journal of Chemistry (ISSN: 2249-2119) |
| 17. | Dr. M. S. John | <ul style="list-style-type: none"> Chief Editor – Gandhi Marg |
| 18. | Dr. Sheeba Pillai | <ul style="list-style-type: none"> Journal of Law and Legal Jurisprudential Studies |
| 19. | Dr Rajeesh A.P. | <ul style="list-style-type: none"> Journal of Law and Legal Jurisprudential Studies |
| 20. | Dr. K M Krishnan | <ul style="list-style-type: none"> Journal of Chinmaya Research Foundation. |
| 21. | Dr. Aju K N | <ul style="list-style-type: none"> Journal of Association for Comparative Studies as well as on the Editorial Board of <i>Bhoomi Malayalam</i>, a journal published by UC College |
| 22. | Dr. Johney Johnson | <ul style="list-style-type: none"> Member of Review Panel , Amity Journal of Management Research (AJMR) published by Amity University, Noida, India (2015-present) |
| 23. | Dr. Celine Pereira | <ul style="list-style-type: none"> Former Associate Editor of the Peer Reviewed Journal in Education of the School of Pedagogical Sciences, PEDAGOGICS having ISSN 2229-7618 |
| 24. | Dr. T.V. Thulasidharan | <ul style="list-style-type: none"> Editorial Board Member of the journal of Farook Training College, ENDEAVOURS IN EDUCATION having ISSN 0976-4275 Editorial Board Member of the International Bi-Annual Peer Reviewed Journal in Education RESEARCH DEMAGOGUE Former Associate Editor of the Peer Reviewed Journal in Education of the Institute of Advanced Studies in Education, Thrissur, ACADEMIA |



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| 25. | Dr. Minikutty A | <ul style="list-style-type: none"> Associate Editor of the Peer Reviewed Journal in Education of the School of Pedagogical Sciences, PEDAGOGICS having ISSN 2229-7618 |
| 26. | Dr. Sajna Jaleel | <ul style="list-style-type: none"> Editorial Board Member of the International Journal, UJER Editorial Board Member of the International Journal, UJER |
| 27. | Dr. Binu George Varghese | <ul style="list-style-type: none"> Editorial board member, Pesquia Online Research Journal ISSN 2456-4052, www.pesquisaonline.net |
| 28. | Dr. K.M Seethi | <ul style="list-style-type: none"> Editor, South Asian Journal of diplomacay (ISSN 2229-3361) Editor, Indian Journal of Poltics and International Relations (ISNN 0973-5011) Editor, Journal of Poltical Economy and Fiscal Fedaralism, 2015 (ISNN 2395-6976) |

Faculty serving as Reviewers:

| Sl. No. | Name of the faculty | Journal name |
|---------|---------------------|--|
| 1. | Dr K Indulekha | <ul style="list-style-type: none"> Journal of Astrophysics & Astronomy |
| 2. | Dr C Sudarsanakumar | <ul style="list-style-type: none"> Material Science in Semiconductor Processing Chinese Optics Letters Optics Communication Journal of Molecular Modelling HSOA Journal of Infectious and Non-infectious Diseases. |
| 3. | Dr N VUnnikrishnan | <ul style="list-style-type: none"> Journal of non-crystalline solids Materials letters Journal of analytical and applied pyrolysis Journal of luminescence Physica b: physics of condensed matter Optical materials Materials chemistry and physics Advances in chemistry and material science Materials science and engineering Applied surface science International journal of biochemistry and biotechnology Journal of modern optics Journal of the chemical society of Pakistan Journal of optoelectronics and advanced materials The journal of physical chemistry |



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|----|---------------------------|---|
| | | <ul style="list-style-type: none"> • Journal of physics and chemistry of solids • Journal of sol-gel science and technology • Journal of theoretical and applied physics • Journal of material processing technology • Materials science in semiconductor processing • Optics communications • Spectrochimica acta part a: molecular and biomolecular spectroscopy • Scientific research and essays • Journal of alloys and compounds • Materials research bulletin • Applied optics |
| 4. | Dr. Nandakumar Kalarikkal | <ul style="list-style-type: none"> • RSC Advances • Journal of Sol-Gel Science and Technology • Journal of Materials Science • Journal of Magnetism and Magnetic Materials • Solid State Sciences • Journal of Industrial Textiles • Colloids and Surfaces A: Physicochemical and Engineering Aspects |
| 5. | Dr Cyriac Joseph | <ul style="list-style-type: none"> • Reviewer for Journal of Crystal Growth • Journal of Physics and Chemistry of Solids • Journal of Luminescence • Dyes and Pigments • Optical Materials • Luminescence • New Journal of Chemistry • Thin Solid Films Spectrochimica Acta |
| 6. | Dr P R Biju | <ul style="list-style-type: none"> • Journal of Luminescence • Journal of electronic Materials • Journal of Alloys and Compounds • Journal of Optical Materials • Journal of Material Science and Engineering E |
| 7. | Prof. Sabu Thomas | <ul style="list-style-type: none"> • Journal of the American Chemical Society, • Macromolecules • Journal of Applied Polymer Science • Composites Science and Technology • Journal of Thermal Analysis • Polymers and Polymer Composites • Polymer • Soft Matter • Journal. of Polymer Science Part B: Polymer Physics • Composites Part A & Part B |



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| | | <ul style="list-style-type: none"> • Polymer Composites • Polymer Engineering and Science • European Polymer Journal • Journal of Materials Science • Langmuir • Applied Clay Science • RSC advances • Biomacromolecules • Industrial crops and products • ACS Applied Materials and Interface • ACS Sustainable Chemistry and Engineering • Journal of Physical Chemistry, A, B and C • Macroletters • Nature materials |
| 8. | Dr Beena Mathew | <ul style="list-style-type: none"> ▪ Reviewer of various of journals of Wiley, Elsevier, Taylor & Francis, and Springer Publishers |
| 9. | Dr. Raju Francis | <ul style="list-style-type: none"> • Reviewer of research articles for ACS, WILEY and Elsevier journal |
| 10. | Dr KS Devaky | <ul style="list-style-type: none"> • Reviewer of various of journals of Biosynthesis |
| 11. | Dr. Jayachandran K | <ul style="list-style-type: none"> • Reviewer of Projects, KSCSTE- reviewer of Back to Lab programme of KSCSTE • Reviewer of Journals- 3 biotech, Bioresource technology |
| 12. | Dr. P S Sukumaran | <ul style="list-style-type: none"> • Review board member, Journal of Disability Management and Special Education. ISSN 2229-5143 • Review board member, Disability, CBR, and Inclusive Development |
| 13. | Dr. E.M Afsal | <ul style="list-style-type: none"> • Member of Review Panel, Journal of Applied Economics published by The University of Warwick, United Kingdom (2009- present) • Member of Review Panel, Advances in Economics and Business published by Horizon Research Publishing, USA (2014-present) • Member of Review Panel , Amity Journal of Management Research (AJMR) published by Amity University, Noida, India (2016-present) |
| 14. | Dr. K.M. Seethi | <ul style="list-style-type: none"> • Reviewer, Millenium, Journal of London School of Economics. • Reviewer, Economic and Political Weekly. • Reviewer, Oxford University Press. |



b) Faculty serving as members of steering committees of international conferences recognized by reputed organizations/societies

| Name of Faculty | Details of the conference |
|---------------------------|---|
| Prof. Sabu Thomas | <ol style="list-style-type: none"> 1. International Conference on Understanding Contemporary India, ICCS, Mahatma Gandhi University, January 2016 2. International Conference on Advances in applied Mathematics, Materials Science and Nanotechnology for Engineering and Industrial application.IC-AMMA-2K16, Federal institute of science and Technology (FISAT)- January 2016 3. INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS(INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH),IRAN Guilan, Iran.(2015 December) 4. 8th International Conference on Materials for Advanced Technologies of the Materials Society of Singapore and 16th IUMRS - International Conference in Asia together with 4th Photonics Conference 2015 5. 9th National Affinity Techniques Symposium” (AFFTECH 2015); “4th Nanomedicine World Congress (NANOMED 2015)” and “2nd International NanoBioTechnology Symposium” focusing also Nanomedicine (NANOBIOTECH 2015), Dalaman, Turkey & AFFTECH 2015.-2015, August 6. “XXI IUPAC CHEMRAWN - Solid Urban Waste Management, Rome, Italy.,- April,2016 7. The International Rubber Conference 2016 Kitakyushu, Japan (IRC2016 Kitakyushu)- 2016 October |
| Dr. Nandakumar Kalarikkal | <ol style="list-style-type: none"> 1. INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS(INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH),IRAN 2. International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015, Cochin University of Science and Technology, Cochin, Feb 2015. |



3.4.4 Provide details of

a) Research awards received by the faculty and students

| Sl No. | Details of Awards received by Faculty Students | Details of Awards received by Students |
|---------------------------------------|--|---|
| School of Behavioural Sciences | | |
| | <p>Dr. Razeena Padmam Mahila Thilakom award instituted by Govt. of Kerala</p> <p>Dr. P.T Baburaj Best poster presentation award in the International Conference on Inclusive Education, Jan11 & 12,2012 organized by the Department of social work, Assumption College Changanacherry, Kerala</p> <p>Ms. Rincymol Mathew Best poster presentation award in the UGC sponsored National Seminar on Ageing and Society, on 4&5 October, 202 organized by ST. Theresa's College, Ernakulum, Kerala.</p> <p>Best poster presentation award in National Conference on Models of Best Practice in Empowerment of Persons with Disabilities, !6-17, October 2015, jointly organized by the National Institute for Empowerment of Persons with Disabilities, Rehabilitation Council of India, and School of Behavioural Sciences, Mahatma Gandhi University, Kottayam, Kerala</p> <p>Sri. Rajesh E Public service award awarded by Confederation of Epidemiological Associations, (CEA) India</p> | Nil |
| School of Biosciences | | |
| | <p>Dr. E. K Radhakrishnan: Honoured presentation of “Bharat Gaurav Award” by India International Friendship Society, May 2016</p> | <p>Rohini Sabu: Young scientist award for the best paper in the National seminar on Diversity of Microbes and Climate Change mitigation held during 3rd-5th February 2016 organized by Catholicate College, Pathanamthitta</p> |



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| | | <p>Jimtha John C: Best paper award in UGC Sponsored National seminar on progress and prospects of Biotechnology, at St. Josephs College, Irinjalakuda on 14th and 15th January, 2016.</p> <p>Tijith K George, Haseena: Best paper award in the National Seminar on Plant science Technology for sustainable world - 2016</p> <p>Glindya Bhagyalakshmy: Best paper presentation award. National Seminar on "Food Safety in India-Current Issues and Career Prospects" 2015</p> <p>Divya.R: Best paper presentation award Biovision 2014</p> <p>Aju K.Ashok. Best poster award (Life Science) 23rd Kerala Science Congress held on January 29-31, 2011</p> <p>Aswathy Agnes Joseph: First Prize for poster presentation at the 24th Kerala Science Congress, organized by Rubber Board., Kottayam, Kerala, India on 29-31, January 2012.</p> <p>Roshmi Thomas: First Prize for Paper presentation, at "Nanotechnology: Applications of Nanomaterials in Agriculture, Food and medicine, 25-26 July organised by BK College, Amalagiri, Kottayam.</p> <p>Jasim B: First Prize for Paper presentation at the "National Seminar on Advanced Biochemical Techniques: Relevance in Interdisciplinary Research Scenario" on September 3-4, organized by B.K. College, Amalagiri, Kottayam.</p> |
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| | | <p>Anisha C: Best Poster Award at the International Seminar on Emerging Trends in Organic Farming and Sustainable Agriculture organized by IUCOFA, Mahatma Gandhi University, on 29th 31st Dec, 2016</p> <p>Rosemin Benny: Best paper award for Rosemin Benny at 25th Swadhesi Science congress December 2015.</p> |
| School of Chemical Sciences | | |
| | <p>Prof. Sabu Thomas:</p> <ol style="list-style-type: none"> 1. Distinguished Professorship Award Josef Stefan Institute, Slovenia, 2010 2. Fellow of the Royal Society of London, FRSC, 2012 3. Awarded Bronze Medal of Chemical Research Society of India, 2013 4. Awarded Materials Research Society of India Award (2013) 5. Awarded Society For Educational & Scientific Research. (SES) Nanotech Scientist Award- 2014 6. Honorary doctorate (D.Sc.) from the University of South Brittany, Lorient, France (2015) 7. Awarded Loyalty Award "International Materials Technology Conference Exhibition" May 2016 & Honourable member of IMTCE, Loyalty Award Club (Membership Number -IMTCE-LC-017) 8. Awarded Dr. APJ Abdul Kalam Award for Scientific Excellence – 2016 <p>- Mahatma Gandhi University- Award for Outstanding contribution – November 2016</p> <p>Dr. Raju Francis: UGC Research Award, 2012</p> <p>Prof. Suresh Mathew :</p> <ol style="list-style-type: none"> 1. Rudolph A Marcus Award 2016 in Chemical Sciences by Lognor, Publishers of Science Advances | <p>Divya Mathew:</p> <ol style="list-style-type: none"> 1. Best poster award for Kinetic Study on the Catalytic Amidolysis of Z-L-Phe-PNA Using Phosphonate Analogue Imprinted Polymer Catalysts as Chymotrypsin Mimics (<i>National Seminar on Phytochemistry An Emerging Branch for the Development of Potential Anticancer Drugs</i>, Assumption College, Changanassery, September 2015) 2. Best poster award for Kinetic Studies on Hydrolytic Activities of Polymer Supported Enzyme like Catalysts in the Amidolysis of Z-Tyr-Gly-OCH₃ (<i>Recent Trends in Spectroscopy: A Chemical and Biological Perspective-II</i>, Newman College, Thodupuzha, 13-14 September 2015)- 3. Best poster award for Effect of the Nature and Extent of Crosslinking on Catalytic Amidolysis of Z-L-Tyr-PNA Using Chymotrypsin Mimics (<i>National Seminar on Advanced Functional Materials</i>, Mar Athanasius College, 15-16 September 2015)- 4. Kinetic Study on the Catalytic Amidolysis of the Dipeptide H-Tyr-Gly-OH Using Boronic acid Analogue Imprinted Chymotrypsin Mimics (<i>RTSB, Recent Trends in Organic</i> |



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| <p>Today</p> <p>2. Nanoscience Research Leader Award 2015 by Cognizure Publishers, hostess of the International Journal – Science Letters</p> <p>Dr. G. Anilkumar :</p> <p>Second prize in the Evonik Industries Chemistry Research Proposal competition ECRP 2016, Germany</p> | <p><i>Synthesis and Chemical Biology</i>, Annamalai University, Department of Chemistry, October 2015)-</p> <ul style="list-style-type: none"> • Deepalekshmi Ponnammma Best Poster Presentation Award in “ National Seminar on Recent Advances in Polymer Science and Technology-2012” Organized by: Society for Polymer Science India and Mar Ivanios College Trivandrum, India • Deepalekshmi Ponnammma Best Oral Presentation Award in “National Conference on Nanostructured materials and Nanocomposites (NCNM) 2012” Sponsored by UGC, at NSS College, Ottapalam, Kerala, India • Cintil Jose Best paper award for the paper entitled “<i>Novel approach for the development of cellulose nanowhiskers from isora fibre</i>” at the National Seminar on ‘Emerging Trends in Chemistry’ held at St. Joseph’s College, Moolamattam on 25th February 2012 • Sooraj M. P., Emerging Trends in Polymeric Materials (ETPM 2014) organized by The Society for Polymer Science, India and Christian College, Chengannur, Kerala, January 2014 – Best Poster Award • Sooraj M. P., “3rd International Science Congress (ISC 2013)” organized by International Science Congress Association, Karunya University, Coimbatore, December 2013 – Best Poster |
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| | | <p>Award.</p> <ul style="list-style-type: none">• Sooraj M. P., International Conference on Advances in Material Science (ICAMS 2013)” sponsored by OPCW, DRDO, KSCSTE, Sree Snakara College, Kalady, October 2013 – Best Poster Award• Sooraj M. P., National Seminar on “Advances in Chemistry-Research and Opportunities” sponsored by KSCSTE, All Saints’ College, Trivandrum, August 2013 – Best Paper Award• Runcy Wilson- Best Paper Award- National Seminar on Advanced Polymer Materials , Organized by Department of Polymer Engineering Mahatma Gandhi University College of Engineering, Muttom, Thoupuzha, Kerala September 11&12, 2015• DeepalekshmiPonnamma, Selected as an invited speaker for the "Polymer Conference for Young Researchers (PCYR-14)” held at CSIR-NIIST• Amrutha P Thankachan Best Paper AwardA Novel Protocol for the Formation of C-S Bonds Using Zn(II)-Catalysts” in the UGC sponsored 13th Prof. K. V. Thomas Endowment National Seminar onNew Frontiers in Chemical Research” Conducted at S. H. College Thevara, Ernakulam, on 4-5 December 2014 |
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| | <ul style="list-style-type: none"> • A M. Thomas Best Paper Award for Novel Protocol for Ullmann C-O Coupling Reactions Under Aerobic Conditions , Proceedings of the National Seminar on Recent Trends in Chemistry, 6-7 November, 2014, Baselius College, Kottayam, Kerala • Amrutha P Thankachan Best Paper Award for Novel zinc-catalyzed C-S cross coupling reactions of aryl halides with aryl thiols ” in the UGC sponsored National seminar “ Chemistry for Tomorrows world ” Conducted at B. K. College Amalagiri, Kottayam on 22-23 January 2015 • Jeena Abraham, International Conference Nanoscience and Emerging Applications (ICONSEA) organized by Centre for Nanoscience and Technology, Jawaharlal Nehru University, Hyderabad, June 26-28, 2014 – • Jyotishkumar Parameswaranpillai Best poster award- International conference, ICMST October 29-31, 2010 Trivandrum (IIST). Thermal and mechanical properties of poly(acrylonitrile butadiene styrene)modified epoxy/amine systems • Deepalekshmi Ponnammamma Selected as an invited speaker for the "Polymer Conference for Young Researchers PCYR-14)” held at CSIR-NIIST Elastomer nanocomposite • Runcy Wilson Best Paper Award, National |
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| | | <p>Seminar On Advanced Polymer Materials(SCENTIA), Organized By Department Of Polymer Engineering Mahatma Gandhi University College Of Engineering, Muttom, Thoupuzha, Kerala 2013 ,</p> <ul style="list-style-type: none"> • Cintil Jose Young researcher award <p>International conference on 'Functional Polymers 2011' held at NIT CALICUT organized jointly by the Department of Chemistry, NIT Calicut & Leeds University, UK "A cost effective approach for the development of cellulose nanowhiskers</p> |
| School of Environmental Sciences | | |
| | <p>Dr. C.T. Aravindakumar</p> <ol style="list-style-type: none"> 1. Visiting Professor at the University of Paris-East with full professor status, 2015 2. an invited member of the Oslo Governance Forum (OGF), Oslo (UNDP) 2011 3. Visiting Professor (with full Professor status) at the University of Paris-East (Department of Geology and Environment) 2013 4. Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies-2014 5. Team Leader in Environmental Science to formulate the research policy of the Ministry of Earth Science in India's Polar Research (Arctic/Antarctic/Southern Ocean/Himalaya) for the next 10 years. The Brainstorming Meeting on Polar Sciences and Global Water Cycle was held at the National Centre for Antarctic and Ocean Research (NCAOR), Goa during April 13-14, 2016. 6. Invited as an expert for identifying research proposals for the India's 36th Antarctic Expedition 2016. The | <ul style="list-style-type: none"> • Sruthy S: <p>Dr. Satheesh Memorial Young Scientist Award for best paper presentation in 11th Kerala Environment Congress (KEC-2015), 6th to 8th may 2015 organized by Centre for Environment and Development, Kottayam, Kerala</p> <ul style="list-style-type: none"> • Daniya M. Thomas: <p>selected to Brown International Research Institute (BIARI), Brown University, USA – 2013 with full support</p> <ul style="list-style-type: none"> • G. Akhil: <ol style="list-style-type: none"> 1. Best Paper Awards in the International Conference on Water: From Pollution to Purification, Jan.23-26, Kottayam 2. Best Paper Awards in the 26th Kerala Science congress, January, Wayanad, 2014. 3. Best Paper Awards in 5th Asian Conference on Colloid and Interface Science, Darjeeling, November, 2013. <ul style="list-style-type: none"> • P. R. Manoj: <ol style="list-style-type: none"> 1. Best Paper Awards in the third International Conference on |



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| | <p>workshop was held during June 9-10, 2016</p> <p>7. Nominated to the Expert Panel of the Water Technology Initiative (WTI) of the Department of Science & Technology, Govt. of India 2015</p> <ul style="list-style-type: none"> • Dr. Mahesh Mohan: <ol style="list-style-type: none"> 1. DST-SERB Fast Track Project for Young scientist 2. Selected for Indian Arctic Expedition 2013-14 3. Selected for Indian Arctic Expedition 2014-15 4. Team leader as Indian Arctic Expedition (July, 2015) • Dr. Syllas V.P: <ol style="list-style-type: none"> 1. Visited Brown International Advanced Research Institute (BIARI) – 2013 (June 06 – 24), Brown University, USA with full support. | <p>Advanced Oxidation Processes, Sept.25-28, Munnar</p> <p>2. Best Paper Awards in the International Conference on frontiers of mass spectrometry (ICMS 2013), Sep.6-9, Kottayam, 2013</p> <ul style="list-style-type: none"> • Jisha C: Best Paper Awards in the International conference on Nano - biomaterials, Kottayam, 2014. • Shibin N. B: Best Paper Awards in the National Symposium on Radiation and Photochemistry (NSRP-2013), North Eastern Hill University, Shillong, March 20-22, 2013 • Shoniya Thomas: <ol style="list-style-type: none"> 1. Best Paper Awards in the National symposium on radiation and photochemistry, NSRP-2013, Shillong, March 20-22, 2013 2. Best Paper Awards in the International Conference on Advanced Oxidation Processes, Oct.5-8, Kottayam, 2012. • T.V. Divyalakshmi: <ol style="list-style-type: none"> 1. Best Paper Awards in the second international conference on membranes, Kottayam, October 4-6, 2013 2. Best Paper Awards in the Proc.-International conference on membranes: Environmental and biological applications, Sept.16-19, 2011 • Nikhil Chandra: <ol style="list-style-type: none"> 1. Best Paper Awards in the National Seminar (NSNano 2013), SN College, Kollam 2. Best Paper Awards in the National Seminar on Green Chemistry-The Ultimate tool for pollution control Changanasserry, February 14-15, 2012 • Siju Abraham: <ol style="list-style-type: none"> 1. Best Paper Awards in National |
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| | | <p>seminar on green chemistry- The ultimate tool for pollution control, Changanacherry, February 14-15, 2012.</p> <p>2. Best Paper Awards in the National seminar on sustainable development: Recent trends in meeting the challenges (NSSD-2012), Kottayam, January 20-21, 2012.</p> <p>• M. M. Sunil Paul: Best Paper Awards in the Trombay Symposium on Radiation and Photochemistry, January 5-8, Mumbai, , 2012.</p> |
| School of Gandhian Thought & Development Studies | | |
| | <p>• Dr. C. R. Harilakshmeendrakumar: GICSNA (Government of India Certified Senior Naturopath Association) National Award for the contributions rendered to the academic propagation of Yoga & Naturopathy in the national and international level.</p> | |
| School of Indian Legal Thought | | |
| | <p>• Dr. George Joseph :</p> <ol style="list-style-type: none"> 1. Prestigious award of Scroll of Honour from the International Council of Jurists London, 2014, taking into account his contributions in International Law, Academic year 2013 -2014 2. Sevanaratnam Puraskaram, 2011 from Nethaji Smaraka Samathi Trivandrum | <p>• Anathakrishnan A Kartha Best Mooter award in the One week Summer School Programme organised by European College of Law and Common Wealth Legal Education Association at London (2015 -2016)</p> <p>• Department students team:</p> <ol style="list-style-type: none"> 1. Best Team award, in the National Competition on Alternative Dispute Redressal Mechanism held at Govt. Law College Ernakulam. (Academic year 2012 -2013) 2. The best script memorandum, in the National Competititon on Alternative Dispute Redressal Mechanism held at Govt. Law College |



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| | | <p>Ernakulam. (Academic year 2012 -2013)</p> <p>3. Runner up in the in NALAM 2015 conducted by NUALS, (Academic year 2015 -2016)</p> <p>4. Winner, in the Ratio Decidendi Judgment Analysis Competition organized by Bharat Matha School of Legal studies 223rganized in 2015</p> <p>5. Winner of best article containing anti drug theme instituted by the Excise department, GOK for the year 2016</p> <p>6. Selected for the Best magazine on the theme Anti-Drugs Campaign by the Excise Department, GOK, for the year 2016.</p> |
| School of Letters | | |
| | <ul style="list-style-type: none"> • Dr. P.S Radhakrishnan : National film award (best film critic) by the Govt. of India for the year 2014. • Dr.Aju K N : Dr. B R Ambedkar National fellowship award by Bharateeya Dalit Sahithya Academy, New Delhi in 2012. • Dr.Saji Mathew: Research Award from UGC (2014-16). <p>Dr.Aju K N :</p> <ol style="list-style-type: none"> 1. Research Award from UGC (2012-15) 2. Kerala state film award 2012-13 3. Received Literary Award (2016) 4. Received Kerala State film award (2015-16) <ul style="list-style-type: none"> • Dr. Jose K. Manual Received Kerala State film award (2015-16) | <ul style="list-style-type: none"> • Siddharth Siva Ph.D. Scholar received National film award for the film “Noottonnu Chodyangal”(2014). • Students team: The School of Letters won the first prize in the literary quiz conducted in connection with Sahiti, Thunchath Ezhuthachhan Malayalam University Tirur, February 2014. |
| School of Management and Business Studies | | |
| | <ul style="list-style-type: none"> • Dr. Afsal E.M.: <ol style="list-style-type: none"> 1. AIMS-NMIMS Outstanding Paper Award at the thirteenth International Conference on | <ul style="list-style-type: none"> • Radhika PC & Johnney Johnson: Received the best paper award at the International Conference |



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| | <p>Management organized during 19-22 December 2015 at Indua business Academy, Bangalore</p> <p>2. Award for Best Doctoral Paper Presentation in the AIMS-International Conference on Management held on 2009 December 20-23 at IIM Bangalore, 2009</p> | <p>organised at SNGCE, (2013)</p> <ul style="list-style-type: none"> • Jominy Joice & Siby Zacharias: Career Management in Changing Career Context', Trends and Challenges in Indian Business Management, Jominy Joice & Siby Zacharias,; International Conference, Placitum November 6 & 7, 2014 • Brijesh George John & Siby Zacharias A Study on Online Jewellery Sales in India' International Conference on Advanced Management- Challenges in Knowledge Era, 8th & 9th January 2015, AMAL Institute of Management, Bharathidasan University |
| School of Pedagogical Sciences | | |
| | <ul style="list-style-type: none"> • Dr. Celine Pereira Best Teacher Educator Award of Council of Teacher Educators in 2013 | <ul style="list-style-type: none"> • Dr. Varghese P. Peter National Best Teacher Award in 2013-14 • Mrs. Sindhu P.G: Best Paper Presenter Award by Council of Teacher Educators in 2014 • Mrs. Sreeja Swas : Best Paper Presenter Award by Council of Teacher Educators in 2013 |
| School of Physical Education & Sports Sciences | | |
| | <ul style="list-style-type: none"> • Dr. Binu George Varghese Letter of Appreciation from Secretary Sports, Government of Kerala for the excellent performance of Kerala team in 35th National Games and for meticulously discharging the responsibilities of Secretary, Kerala State Sports Council during my tenure from 2014-2016. | |



| School of Pure&Applied Physics | |
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| <ul style="list-style-type: none"> • Dr. Antony S UGC research award 2015 | <ul style="list-style-type: none"> • RitheshRaj: Best Oral presentation by at the National seminar on Advances in Crystal Growth and Nanotechnology held at CSM College Kottayam during Jan 15-16,2016 • RaneeshB: Second position in poster presentation, The second international conference on Optoelectronic materials and Thinfilms for Advanced Technology (OMTAT2013), Cochin University of Science and Technology, Cochin, January 3-5, (2013) • Ms Rehana P Ummer: Best award for oral presentation, 15th National Symposium on Material Science, IIT Bombay, Mumbai May 18-24 (2015) • Ann Mary KA: Best paper Award in Physical Science in the 26th Kerala Science Congress held at Kerala Veterinary and Animal Science University Wayanad during 28 to 31 Jan 2014 • PrasanthS: Best poster Presentation award to, in the national seminar on Photonics and Its application held at University of Kerala during Dec 9-11 2015 • RemyaMohan: Best Poster Award for at the National Seminar on nano-scale Science & Technology, Devamatha College, Kuravilangad 2015 • ElHadjiMamourSakho: Best Poster Award at the International Conference on Advanced Materials for Power Engineering 2015 conducted by Wroclaw Technical University & Mahatma Gandhi University 2015 |



| School of Social Sciences | | |
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| | <ul style="list-style-type: none"> • Dr. Raju S: UGC Research Award | |
| Department of Lifelong Learning and Extension | | |
| | <ul style="list-style-type: none"> • Dr. Sabukuttan <ol style="list-style-type: none"> 1. Received Life time Achievement Award in 2014 for promotion of yoga and Naturopathy from the Indian Martial Arts Academy Thrissur, Kerala 2. Received Sarojini Damodar Foundation Award twice for the recognition of his service in propagating Organic Farming in 100 affiliated colleges under Mahatma Gandhi University during the year 2016 and also for the academic contributions in spreading the message of Organic Farming by starting Certificate and Diploma Courses at the University. 3. Received Certificate of Honour for the incredible contributions in Social Service for the years 2012-13, 2013-14 and 2014-15 by Kerala Action Force, Anwar Pain and Palliative Care and IMA Madhya Kerala 4. Received the Youth Promotion Award 2014 from the Centre for Research and Action (CIRA) in recognition of Significant Contribution in the field of Youth Development 5. Received the Best Programme Co-ordinator Award during the year 2013-14 and 2015-16 6. Received the Kamala Dalam Award in 2016. 7. Received Synergy Award for the Empowerment of Youth in 2016 8. Received Indira Gandhi NSS Award for the year 2013-2014 for the Best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee. 9. Received Indira Gandhi NSS Award (Certificate of Appreciation) for the | |



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| | <p>year 2012-2013 for the best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee.</p> <p>10. Received the IPCAI National Award for the outstanding contributions in the field of Community Organisation through National Service Scheme of Mahatma Gandhi University in November 2016.</p> | |
| International and Inter University Centre for Nanoscience and Nanotechnology | | |
| | | <ul style="list-style-type: none"> • Robin Augustine : <ol style="list-style-type: none"> 1. Best poster award, International Conference on Membranes (ICM-2013), MGU; Best poster presentation in Second International Conference on Nanomaterials: Synthesis, Characterization and Application India- 2013, MGU. 2. Best Poster Presentation Award -International Conference on Advanced Nanocomposite for Construction Materials (ICNC-2013), MGU; Best oral presentation award - International Conference on Tissue Engineering and Regenerative Medicine (ICAPM-2013) National Institute of Technology, Rourkela, Odisha 3. Best poster award-Bioradiance 2014 (National level seminar), organized by the Pushpagiri Research Centre, Tiruvalla, Kerala.; Third prize for poster presentation ,2nd International Conference of Nano Materials(ICNM)2014, MGU • Jemy James: Best Oral Presentation - International Conference On Plasma Science And Nanotechnology, & 29th National Symposium On Plasma Science And Technology, MGU • Preetha Balakrishnan: |



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| | | <p>Best Oral Presentation Award - National Seminar on Material Science and Modern Analytical Techniques on 26th&27th of March 2014</p> <ul style="list-style-type: none"> • Dr.Praveen.G: <ol style="list-style-type: none"> 1. Best Oral Presentation Award, National Seminar On Biopolymers And Green Composites (BPGC-14); 2. Best Oral Presentation Award, National Seminar On Nanochemistry And Nanobiotechnology (Nanochembio-14); 3. Best Poster Presentation Award (Prof. D.M. Vasudevan Award),In Bioradiance-2015 'National Conference On Frontiers In Diabetic Research And Treatment' ; 4. Best Oral Presentation Award , UGC Sponsored National Seminar On “Emerging Trends In Nanomaterials” 5. Best paper award ,28th Kerala Science Congress,2016 • Jiji Abraham : <p>Best Paper Award - National Seminar on Nanostructured Materials (NSM2014),5: Best Paper Award, National Seminar On Advanced Polymer Materials(Hesperos 2015), MGU</p> • Blessy Joseph: <p>Best Poster Prize International Conference On Holistic Medicine - ICHM 2015, MGU</p> |
| Advanced Centre of Environmental Studies and Sustainable Development (ACCESSD) | | |
| | | <ul style="list-style-type: none"> • Sijumon V.A <p>Best poster award in the National symposium on radiation and photochemistry, NSRP-2013, Shillong, March 20-22, 2013; Best poster award in the National seminar on sustainable development: recent trends in</p> |



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| | | <p>meeting the challenges, NSSD-2012, Kottayam, 2012; Best poster award in the National seminar on green chemistry-The ultimate tool for pollution control, Kottayam, 2012.</p> <ul style="list-style-type: none"> • Jisha C <p>Best paper in the International conference on Nano -biomaterials, Kottayam, 2014.</p> <ul style="list-style-type: none"> • G. Akhil <p>Young scientist award, in the 26th Kerala Science congress. 2014, Best paper award in the 5th Asian Conference on Colloid and Interface Science, University of North Bengal, Darjeeling. 2013, Best paper award in the International Conference on Water: from pollution to purification, Kottayam, Kerala, Jan. 23-26, 2015.</p> |
| Institute for Intensive Research in Basic Sciences (IIRBS) | | |
| | <ul style="list-style-type: none"> • Prof (Dr.) I. Ibnusaud: <p>Best paper award for the paper presented in ‘Chirality 2004’ held at New York University, New York U.S.A.(2004).</p> | |
| KN. Raj Centre for Planning and Centre-State Relations | | |
| | <ul style="list-style-type: none"> • Girish Kumar R: <p>Jean Monnet Fellowship, European University, Florence, Italy 2010 (International Level) Ministry of Trade and Commerce, WTO Chair Professor, Central University of Kerala(National Level)</p> | |
| National Institute of Plant Science Technology | | |
| | | <ul style="list-style-type: none"> • Alan Thomas S: <p>Best paper presentationaward at International seminar on emerging trends in organic farming and sustainable agriculture held at Kottayam during 29th to 31st December 2016</p> |



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| | | <ul style="list-style-type: none"> • Anto Joseph : Best paper presentation award at The National Seminar on Plant science Technology for sustainable world held at Kottayam during February 25th -26th 2016 |
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b) National and International recognition received by the faculty from reputed professional bodies and agencies

| Name of School /Department | National & International recognition recieved by Faculty & Students |
|----------------------------------|--|
| School of Chemical Sciences | <ol style="list-style-type: none"> 1. Fellow of the Royal Society of Chemistry, London, FRSC, 2012 2. Prof. Sabu Thomas was awarded Bronze Medal of Chemical Research Society (CRSI) of India, 2013 3. Prof. Sabu Thomas was Distinguished Professorship Award, Josef Stefan Institute, Slovenia, 2010 |
| School of Environmental Sciences | <p>Faculty</p> <ol style="list-style-type: none"> 1. Dr.C.T. Aravindakumar has been selected as an invited member of the Oslo Governance Forum (OGF), Oslo (UNDP) 2011 2. Dr.E.V.Ramasamy has been nominated as a member of the <i>State Waste Management Policy Committee</i> by the <i>Local Self Government Department, Govt. of Kerala (November 14, 2012)</i> 3. Dr. Mahesh Mohan got the DST-SERB Fast Track Project for Young scientist 4. Dr.E.V.Ramasamy has been nominated as a member of the Special Board of Studies in Pollution Control and Environmental Engineering of Pondicherry University (October 26, 2012) 5. Dr.C.T. Aravindakumar has been selected as Visiting Professor (with full Professor status) at the University of Paris-East (Department of Geology and Environment) 2013 6. Prof.C.T. Aravindakumar has been selected as Visiting Professor at the University of Paris-East with full professor status, 2015 7. Prof.C.T. Aravindakumar has been nominated as the Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies-2014 8. Dr.E.V.Ramasamy has been nominated as a member of the <i>State Waste Management Policy Committee</i> by the <i>Local Self Government Department, Govt. of Kerala , attended several meetings of the committee during 2014-15</i> |



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| | <p>9. Dr.E.V.Ramasamy has been nominated as a member of the <i>Technical Committee</i> of Suchitwa Mission , <i>Local Self Government Department, Govt. of Kerala</i> , attended several meetings of the committee during 2014-15</p> <p>10. Prof.C.T. Aravindakumar, was invited as a Team Leader in Environmental Science to formulate the research policy of the Ministry of Earth Science in India's Polar Research (Arctic/Antarctic/Southern Ocean/Himalaya) for the next 10 years. The Brainstorming Meeting on <i>Polar Sciences and Global Water Cycle</i> was held at the National Centre for Antarctic and Ocean Research (NCAOR), Goa during April 13-14, 2016.</p> <p>11. Prof.C.T. Aravindakumar was invited as an expert for identifying research proposals for the <i>India's 36th Antarctic Expedition 2016</i>. The workshop was held during June 9-10, 2016</p> <p>12. Prof.C.T. Aravindakumar was nominated to the Expert Panel of the <i>Water Technology Initiative (WTI)</i> of the Department of Science & Technology, Govt. of India 2015</p> <p>13. Dr. Mahesh Mohan was the team leader selected for the Indian Arctic Expedition (July, 2015)</p> <p>14. Dr. E.V.Ramasamy, Associate Professor, has participated in the selection committee meeting of the CWRDM (Centre for Water Resources Development and Management),Kozhikode as a subject expert in the interview board for the selection of Scientist-B during July 02- 03, 2015.</p> <p>15. Dr. E.V.Ramasamy, Associate Professor, has participated as the member of Board of Studies for the the B.Voc. Programme on Environmental Assessment and Remediation on Monday the 14th September, 2015, at Virudhunagar Hindu Nadars'; Senthikumara Nadar College, (Autonomous), Virudhunagar, Tamil Nadu.</p> <p>16. Dr E.V. Ramasamy, Associate Professor, has participated in the Technical Committee meeting for evaluating the technical presentations of the organisations who have short listed for New Technologies on 28.11.2015 at 10.30 A.M onwards at the Office of State Institute of Health and Family Welfare, Thycaud, Thiruvananthapuram, organised by Suchitwa Mission, Local Self Governance Department (LSGD), Govt. of Kerala</p> |
| School of International Relations & Politics | <p>Faculty</p> <p>Dr. K.M. Seethi</p> <p>1. Invited to be on the panel of the presentations at the Gulf Research meetings at the University of Cambridge in 2012, 2013 & 2016.</p> |



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| | <ol style="list-style-type: none"> 2. Nominated as expert Working Group on NORKA, Kerala State Planning Board in 2016. 3. Invited to be an expert at the ICSSR, New Delhi for reviewing International collaboration projects. 4. Serving as UGC expert of the Center for Advanced Studies (CAS), University of Hyderabad. <p>Researcher</p> <ol style="list-style-type: none"> 1. Best Researcher Award in Political Science granted to Ms. Anju Lis Kurian by the Indian Political Science Association in 2014-15. |
| School of Letters | <ol style="list-style-type: none"> 1. Dr. P.S Radhakrishnan received national film award (best film critic) by the Govt of India for the year 2014. 2. Dr. Aju K N received Dr. B R Ambedkar National fellowship award by Bharateeya Dalit Sahithya Academy, New Delhi in 2012. |
| School of Pure & Applied Physics | <p>Dr Indulekha K</p> <ol style="list-style-type: none"> 1. Executive Committee Member, Square Kilometer Array India Consortium 2. Visiting Associate, Inter University Centre for Astronomy & Astrophysics, Pune <p>Dr Nandakumar Kalarikkal</p> <ol style="list-style-type: none"> 1. Visiting Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India 2. Visiting Professor, Gulbarga University, Gulbarga, Karnataka under SAP scheme of UGC 3. Visiting Professor, Alemaya University & Mekkele University, Ethiopia 4. Conference Fellowship Award of the Seventh International Conference on Phonon Scattering in Condensed Matter held at Cornell University, USA <p>Students</p> <ol style="list-style-type: none"> 1. Microstructure and physical properties of multiferroic hexagonal ErMnO₃ thin films. The second international conference on Optoelectronic materials and Thin films for Advanced Technology (OMTAT 2013), Cochin University of Science and Technology, Cochin, January 3-5, (2013) - second position in poster presentation for Raneesh B (PhD student) 2. Enhanced dielectric and magnetoelectric coupling in BiFeO₃-NaNbO₃-PVDF-TrFE films, Rehana P Ummer, Raneesh B, Laurent Badie, Didier Rouxel, Sabu Thomas and Nandakumar Kalarikkal, 15 th National Symposium on Material Science, IIT Bombay, Mumbai May 18-24 (2015) - best award for oral presentation to Ms Rehana P Ummer (PhD Student) |



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| | <ol style="list-style-type: none"> Best paper Award in Physical Science in the 26th Kerala Science Congress held at Kerala Veterinary and Animal Science University Wayanad during 28 to 31 Jan 2014 for the paper entitled "Ultrafast optical non-linearity in CuS nanocrystal" to Ann Mary K A Fluorescence probing Ascorbic acid by L-Cystine capped Mn_3O_4 nanoparticles Best poster Presentation award to Prasanth S, in the national seminar on Photonics and Its application held at University of Kerala during Dec 9-11 2015 SPR based Fibre Optic Mercury Sensor based gold Nano particles- Best Oral presentation by Rithesh Raj at the National seminar on Advances in Crystal Growth and Nanotechnology held at CSM College Kottayam during Jan 15-16, 2016 Synthesis and Photo-luminescence Characterization of green-red emitting $CaB_2O_4:Er^{3+}, Li^+$ phosphor –Best Poster Award for Remya Mohan at the National Seminar on nano-scale Science & Technology, Devmatha College, Kuravilangad 2015 Liquid Phase Exfoliation of graphite oxide into graphene oxide quantum dot with blue photo-luminescence – Best Poster Award for El Hadji Mamour Sakho at the International Conference on Advanced Materials for Power Engineering 2015 conducted by Wroclaw Technical University & Mahatma Gandhi University 2015 |
| School of Letters | <ol style="list-style-type: none"> Dr. P.S Radhakrishnan received national film award (best film critic) by the Govt of India for the year 2014. Dr. Aju K N received Dr. B R Ambetkar National fellowship award by Bharateeya Dalit Sahithya Academy, New Delhi in 2012. |
| School of Tourism Studies | <ol style="list-style-type: none"> Dr. Robinet Jacob, Conference chair in the annual conference of International Society of Travel and Tourism Educators, Miami, USA 20-22 October, 2011 Dr. Robinet Jacob has been nominated as Member, Expert Committee for evaluating Major Research Projects (Tourism), University Grants Commission, New Delhi, July 2014 |
| Department of Lifelong Learning and Extension | <ol style="list-style-type: none"> Dr.K.Sabukuttan received Life time Achievement Award 2014 for promotion of yoga and Naturopathy from the Indian marital Arts Academy Thrissur, Kerala Dr.K.Sabukuttan received Sarojini Damodar Foundation Award twice for the recognition of his service in propagating Organic Farming in 100 affiliated colleges under Mahatma Gandhi University during the year 2016 and also for the academic contributions in spreading the message of Organic Farming by starting Certificate and Diploma Courses at the University |



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| | <p>3. Dr.K.Sabukuttan received Certificate of Honour for the incredible contributions in Social Service for the years 2012-13,2013-14 and 2014-15 by Kerala Action Force, Anwar Pain and Palliative Care and IMA Madhya Kerala</p> <p>4. Dr.K.Sabukuttan received the Youth Promotion Award 2014 from the Centre for Research and Action (CIRA) in recognition of Significant Contribution in the field of Youth Development</p> <p>5. Dr.K.Sabukuttan received the Best Programme Co-ordinator Award State level during the year 2013-14 and 2015-16</p> <p>6. Dr.K.Sabukuttan received the Kamala Dalam Award in 2016</p> <p>NATIONAL LEVEL</p> <p>7. Dr.K.Sabukuttan received Indira Gandhi NSS Award for the year 2013-2014 for the best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee</p> <p>8. Dr.K.Sabukuttan received Indira Gandhi NSS Award Certificate of Appreciation for the year 2012-2013 for the best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee</p> <p>9. Dr.K.Sabukuttan received the IPCAI National Award for the outstanding contributions in the field of Community Organisation through National Service Scheme of Mahatma Gandhi University in November 2016.</p> |
| School of Technology And Applied Sciences | <p>1. Dr. K Shreekrishna Kumar, Eminent Educationist Award for the year 2016 awarded at Indo-American Education Summit 2016, Bangalore by theIndus Foundation</p> <p>2. Dr. Shreekrishna Kumar, best Civil Servant Golden Lotus Award for the year 2016 awared by the Business Digest Magazine.</p> |
| IIUCNN | <p>1. Prof. Sabu Thomas has been awarded MRSI medal, 2012.</p> <p>2. Fellowship of Royal Society of Chemistry, 2012.</p> <p>3. Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014</p> |

3.4.5 Indicate the average number of successful M.Phil and Ph.D scholars guided per faculty during the last four years. Does the university participate in Shodhganga by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?

M.G.University is provided with access to UGC-INFONET e-Journal facility provided by the INFLIBNET to selected 199 Universities in India. As per the statistics, the University is placed in the 29th position as on 2013 and 27th position as on 2014. The access to the facility has been extended to remote departments and study centres of the university during February 2015.

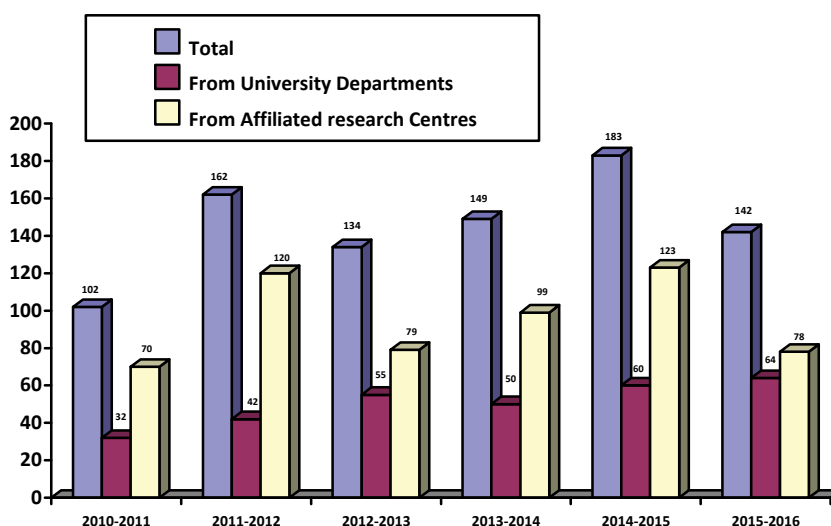
Theses are also uploaded in the Shodhganga, the online digital repository of PhD theses developed by the INFLIBNET Centre. M.G.University is one among the topmost contributors of online theses to Shodhganga.

The Ph.D theses awarded by the University are digitized and made available over the internet on open access mode. MGU Online Theses Library (www.mgutheses.in) is the online theses library of the University. The project obtained the e-Governance award of the Govt of Kerala during 2010 and other significant recognitions from INTUIT, U.K and inclusion in UNESCO's library portal.

Theses digital library of M.G.University has been launched by the former President of India H.E. Dr. A.P.J.Abdul Kalam on 8th November, 2008.

Details of Ph.D Awarded

| Sl No | Year | Ph.D Awarded | | |
|--|-----------|--------------|-----------------------------|----------------------------------|
| | | Total | From University Departments | From Affiliated research Centres |
| 2 | 2010-2011 | 102 | 32 | 70 |
| 3 | 2011-2012 | 162 | 42 | 120 |
| 4 | 2012-2013 | 134 | 55 | 79 |
| 5 | 2013-2014 | 149 | 50 | 99 |
| 6 | 2014-2015 | 183 | 60 | 123 |
| 7 | 2015-2016 | 142 | 64 | 78 |
| Average number of successful PhD scholars per faculty- 3:1 | | | | |



- Total number of M.Phil awarded during 2010-2016 - 252



3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.

Mahatma Gandhi University has introduced the policy of plagiarism checking before the submission of PhD thesis in the University since June 2016. This service of the University is implemented through Central Library of the University. The software used for the purpose is URKUND, which has been provided to the University by INFLIBNET centre, Gujarat. URKUND is a fully automated system, which permits online submission of unlimited logins and pages for piracy checking. The University has made this service mandatory for Ph.D submission as part of improving quality of research output. Towards refining the percentage of significance of plagiarism reported, the library is offering a pre-check service facility before final submission of theses, which has helped to lower the percentage of significance to less than 10%, even though the University has restricted the significance to 25%. So far, more than 500 documents have been checked for piracy using this facility which also includes articles of faculties and research papers. The library provides orientation programmes for researchers about plagiarism checking and this has been well appreciated by the user community. Strict refereeing system is also followed to avoid plagiarism.

3.4.7 Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?

Yes. The Schools and Centres of the university have been constituted on the basis of interdisciplinarity as the major plank for its academic programmes and research. A new concept of convergence of different disciplines between/ among different Departments /Schools of the university are promoted and an exclusive building called Convergence Academia Complex (CAC) is under construction at an estimate of Rs. 29 Crores. CAC will house all the Inter University and Inter School Centres having diversified programmes in order to promote interdisciplinary research.

Collaboration with national/Institutes/Industries:

| Sl No . | Programme | Collaborative institute |
|---------------------------------------|--|---|
| School of Behavioural Sciences | | |
| 1. | GFATM Project - SAKSHAM (The Global Fund to Fight AIDS, Tuberculosis and Malaria, Round 7, HIV/AIDS Counselling Programme), 2009-14 | WHO programme funded through Tata Institute of Social Sciences (TISS), Mumbai |
| School of Biosciences | | |
| 2. | DBT builder programme with IIUCNN | DBT |



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| | | |
| 3. | Molecular mechanism of antidiabetic activity of <i>Costus pictus</i> (No. 025/IBRS/KBC/2013 Dated. 11.11.2013) | Kerala Biotechnology Commission-KSCSTE- Industry Partner-Arjuna Natural Extracts. |
| 4. | Health promoting capabilities of potential probiotic strains isolated from infant gut microflora | ICMR (Collaborative project with Dr. Sabu Thomas, Scientist E11 as CO- PI, Rajiv Gandhi Centre for Biotechnology) |
| School of Chemical Sciences | | |
| 5. | Respond project from ISRO 2016-2019 | ISRO |
| 6. | Development of high performance rubber nano composites for tyre engineering 2007-2011 | DST-Apollo Tyres |
| 7. | Tuning the properties of stimuli sensitive copolymers- A step towards purification of water 2009-2012 | SERC,DST |
| 8. | High performance polymer blend from epoxy resin and PTT for aerospace application 2009-2012 | DRDO |
| 9. | Carbon nanotube filled natural rubber nanocomposites 2010-2013 | UGC-DAE |
| School of Environmental Sciences | | |
| 10. | National Vegetation Carbon Pool – Kerala Region 2011-2013 | IIRS, ISRO |
| 11. | Nationwide Environmental Gamma Radiation Monitoring Using TLDs (A National Mission programme) 2014-2016 | BRNS |
| 12. | Investigation of the spatial distribution of uranium and associated water quality parameters in five central districts of Kerala 2015 onwards | BRNS |



| | | |
|---|---|---|
| | | |
| School of International Relations and Politics | | |
| 13. | Paddy Culture in Kuttanad, Kerala: Folk Traditions, Rituals and Festivals 2012-14 | Indira Gandhi International Centre for the Arts, New Delhi. |
| 14. | MGNREGS Assessment Evaluation Study- Eranakulam District. 2013-15 | State Institute of Rural Development, Govt of Kerala. |
| 15. | MGNREGS Assessment Evaluation Study- Pathanamthitta District. 2013-15 | State Institute of Rural Development, Govt of Kerala |
| 16. | MGNREGS Assessment Evaluation Study- Kollam District. 2013-15 | State Institute of Rural Development, Govt of Kerala |
| School of Pure And Applied Physics | | |
| 17. | National pooled funds utilized for the promotion of teaching & research in Astronomy & Astrophysics | MoU with (IUCAA, Pune) |
| 18. | National pooled funds utilized for science development for the Square Kilometer Array | MoU with Square Kilometer Array India Consortium |
| School of Social Sciences | | |
| 19. | Rehabilitation Plantation: Socio Economic sustainability', (2005) | Project Sponsored by Rehabilitation Plantation Corporation, Punalur |
| 20. | Evaluation of Ecodevelopment Programme at Periyar Tiger Reserve), (From March, 2009 April, 2011) | Periyar Foundation, Periyar Thekkady. |
| School of Tourism Studies | | |
| 21. | "Social Media as an influencer among foreign tourists visiting India" 2014-16 | Indian Institute of Tourism and Travel Management and Ministry of Tourism, Govt. of India |
| 22. | Discover Kottayam 2014-16 | District Tourism Promotion Council (DTPC), Kottayam |
| International and Inter University Centre for Nanoscience and Nanotechnology | | |
| 23. | Dept of Materials Engineering, Indian Institue of Science (IISc), Bangalore | |
| | Appollo Tyres, MRF tyres | |
| | Rubber Research Institute of India, Kottayam, Kerala, India - 686 009 | |
| | NIIST, Trivandrum, Kerala, India - 695 012 | |
| | Central Power Research Institute, Bangalore, India - 56094 | |



| | | |
|---|--|--|
| | Vikram Sarabhai Space Research Centre, Trivandrum, India | |
| | Rubber Technology Centre, Indian Institute of Technology, Kharagpur, India | |
| | COMPTECH, Indian Institute of Technology, Chennai | |
| | Polymer Chemistry Division, National Chemical Laboratory, Pune, India | |
| | Sree Chitra Thirunal Institute of Medical Sciences and Technology, Trivandrum, Kerala, India | |
| | Central Institute of Plastic Engineering and Technology, Guindy, Madras, India | |
| | of Polymer Science & Rubber Technology, Cochin University of Science & Technology, Cochin - 22, Kerala, India | |
| | Indian institute of Chemical Technology, Hyderabad, India | |
| | Laboratory of Condensed Matter Physics, Department of Physics, University of Rajasthan, Jaipur, India | |
| | Reliance Industries Limited, Maker Chambers IV, 3rd Floor, 222, Nariman Point, Bombay | |
| | Elastomers Technical Services, Madurai, India | |
| | High Polymer Engineering Division, Department of Chemical Engineering, Indian Institute of Technology, Madras, India | |
| | Department of Chemistry, Karnatak University, Dharwar, Karnataka, India | |
| | Department of Civil Engineering, Indian Institute of Technology, New Delhi, India | |
| | Common Facility Service Centre, Industrial Estate, Changanacherry, Kottayam, Kerala, India | |
| | Department of Physics, University of Mysore, Mysore | |
| Inter University Centre for Biomedical Research & Super Specialty Hospital | | |
| 24. | IUCBR and Bangur Institute of Neurology, Kolkata | Bangur Institute of Neurology, Kolkata |
| 25. | IUCBR and Manovikas Kendra, Kolkata | Manovikas Kendra, Kolkata |
| Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) | | |
| 26. | Nanofiber structures for efficient enzyme immobilization in membrane applications | Network project between Department of Energy Conversion and Storage, Technical University of Denmark (DTU) and Mahatma Gandhi University (MGU) |
| Inter University Centre For Disability Studies | | |



| | | |
|--|--|--|
| 27. | Empowerment of Persons with Disabilities (PWDs) through Community Integration” | “ Santhigiri Rehabilitation Institute, Vazhithala P.O, Thodupuzha- 685583 |
| 28. | “Skill development training programme to the persons with disabilities” | Theeradesa Raksha Social Welfare Society (TRSWS), Reg. No. 566/2001, Sidco building, Beach Road, West Hill P.O, Calicut- 673005. |
| Advanced Molecular Materials Research Centre (AMMRC) | | |
| 29. | Propellant Burn rate modifiers 2016-18 | ISRO |
| KN. Raj Centre for Planning and Centre-State Relations (KNRC) | | |
| 30. | Conducting Training programmes 2016-17 | Collaboration with Gulati Institute of Finance and Taxation, Trivandrum; |
| 31. | Participation in training programmes 2015-16 | Institute for Studies in Industrial Development, New Delhi |

Collaboration with international institutes / industries:

| | | | |
|--|---|-----------|--|
| School of Chemical Sciences (SCS) | | | |
| 1. | Hierarchical bio composites from Isora fibres and unsaturated polyester | 2014-2016 | DST-Austria |
| School of Biosciences | | | |
| 2. | Dr.J.G.Ray received Prometeo Sabios Fellowship of Ecuador Government to conduct collaborative studies at Ecuador with professors in their university. | | Fellowship of Ecuador Government |
| School of Environmental Sciences | | | |
| 3. | Long - Term Monitoring of Kongsfjorden System of Arctic region for climate change studies | 2015-2016 | ESSO-NCAOR, MoES |
| 4. | Long Term Environmental Monitoring of Fjord Ecosystems, Ny-Ålesund (Arctic) | 2016-2017 | ESSO-NCAOR, MoES |
| 5. | Development of Self-contained, PV powered domestic toilet and waste water treatment system. | 2014-2015 | California Institute of Technology, USA |
| 6. | Microbial Fuel Cells | 2014 | University of West of England (UWE), Bristol, UK |
| 7. | An Interdisciplinary and | 2012- | UGC / Obama-Singh |



| | | | |
|--|---|-----------|--|
| | Community Oriented Innovative Approach | 2015 | 21st century knowledge initiative/ with Brown University, Duke University and Plymouth State University |
| 8. | Pulse radiolysis of biomolecules | 2010-2012 | Indo-French ARCUS Project |
| School of Tourism Studies | | | |
| 9. | Project for Mango Languages | 2011 – 12 | Mango Languages, USA |
| International and Inter University Centre for Nanoscience and Nanotechnology | | | |
| 10. | Nano biomaterials water purification | 2016-17 | Researcher Links scheme offered within the Newton Fund, the British Council & Royal Society of Chemistry, London |
| 11. | Cross-linked polyethylene Nano composite for cable insulating application | 2016-17 | University of Mara, Malaysia |
| 12. | The Centre has collaboration with following industries. 3. General Cables, USA, (completed) 4. Surface Treat, Czech Republic, (Running) | | |
| Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) | | | |
| 13. | Nanofiber structures for efficient enzyme immobilization in membrane applications | 2016-2019 | Network project between Department of Energy Conversion and Storage, Technical University of Denmark (DTU) |
| 14. | Advanced membrane processes for water purification | 2016 | Ben-Gurion University, Israel. |
| Advanced Molecular Materials Research Centre (AMMRC) | | | |
| 15. | “Study of fundamental Chemical and Physical properties of magnetic ionic liquid nanofluids”. collaboration with Department of Physics, Rzeszow University of Technology, Poland | 2015-17 | DST, Govt. of India & (funding agency in Poland) |



3.4.8 Has the university instituted any research awards? If yes, list the awards.

Yes.

The following are the research awards instituted by the University which has been included in the University budget from the financial year 2015-16.

| Sl. No | Name of Award | Funds earmarked (Rs. In lakhs) |
|---------------|---|---------------------------------------|
| 1 | Young Scientist Award | 5 .00 |
| 2 | Project Seed Money | 20.00 |
| 3 | Incentive for Patent | 10.00 |
| 4 | Incentive for publication in first class referred journal | 10.00 |
| 5 | Incentive for publication of original books | 10.00 |
| 6 | Best Teacher Award | 1.00 |

3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

Felicitation programmes to honour faculty is organized by University. Recently Prof. Sabu Thomas has been felicitated for his outstanding achievements in teaching and research.

3.5 Consultancy

3.5.1 What is the official policy of the University for Structured Consultancy? List a few important consultancies undertaken by the university during the last four years.

The University promotes consultancy services through its Schools and Centres which offers wide range of services and the funds generated are deposited in the concerned Department Development fund/Consultancy account.

School of Behavioural Sciences

The school offers consultancy services in the area of mental health and disability identification and rehabilitation. Since there are social issues where maximum awareness creation and provision of services are required, most of the services are provided free of cost. A nominal fee is collected for audiometry, physiotherapy etc. Also the intellectually challenged students attending the vocational rehabilitation unit of the School are given a nominal remuneration for the physical work they do in the centre. The SANTHWANAM counselling centre working in the School offers mental health consultancy services to the child and adolescent clients referred from medical colleges, Institute of Child Health, District hospitals, schools, colleges and so on. The services of an expert clinical psychologist is provided for psychological testing and assessment. The centre also gives certificates regarding Intellectual disability and learning disability and is

accepted as a competent authority in this regard by the Department of Education and Government Medical colleges. Counselling and guidance to the students and parents of the Vocational Training Centre of School of Behavioural Sciences and their assessment have been carried out in the clinic at regular intervals. All the services of this centre is extended free of cost to enable better access to the needy population.

The year wise distribution of the clients attended the clinic is as follows (March 2011-September 2016)

| Year | No. of New Cases | No. of follow up cases. |
|-------------------------|------------------|-------------------------|
| March- December 2011 | 216 | 198 |
| January – December 2012 | 300 | 214 |
| January – December 2013 | 288 | 262 |
| January – December 2014 | 166 | 122 |
| January – December 2015 | 450 | 306 |
| January – December 2016 | 372 | 198 |

School of Environmental Sciences

- Water quality testing (20% to consultant/student and 80% to University as DDF)
- Analytical consultancy (100 % to University as DDF)
- Remote sensing and GIS consultancy by Dr. R. Satheesh Centre for Remote Sensing & GIS) of the School.

School for International Relations and Politics

- The School of International Relations and Politics conducted a Consultancy Project sponsored by the Kerala State Rural Development (SIRD), Government of Kerala in respect of the Impact Assessment Study of the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) in the districts of Ernakulam, Kollam and Pathanamthitta. The projects were completed and the Reports of these studies were submitted to the SIRD in November 2015.

School of Indian Legal Thought

- Legal Literary Camps are regularly conducted However, it is done more as a Service rather than consultation

School of Management and Business Studies

- Provided consultancy services to Catholic Syrian Bank Ltd in the selection for the post of Clerk-cum-cashiers for the Kottayam Zonal office in 2014.
- Provided consultancy services to Kureepuzha cooperative society in the staff selection to various positions in 2014 and 2015.



School of Tourism Studies

- Provided consultancy services for Department of Tourism, Government of Kerala and District Tourism Promotion Councils (DTPC) of Kottayam and Ernakulam districts Rs. 166002/-
- Certified Tour Advisor Programme (CTA) along with District Tourism Promotion Council – Ernakulam (January 2015) – Rs. 20000
- Mango Languages, USA – 75000/- (2011 – 12)

International & Inter University Centre for Nanoscience and Nano Technology-IIUCNN

- International & Inter University for Nanoscience and nanotechnology undertakes consultancy work from companies and research labs. The active company partner is Lipids India Limited for whom extraction, chemical characterization and Product development services are offered.
- Other consultancy work for Reserach Projects with different colleges.

3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?

University has established Business Innovation and Incubation Centre which is currently facilitating active university-industry interactions. This cell is responsible for the conduct of frequent university-industry interface meeting at the campus. This will lead to large scale funded research project at schools and centres of the university from industry leading to new technologies and products with the help of the incubation Centre. This will facilitate several spin-off technologies which will ultimately lead to commercial production.

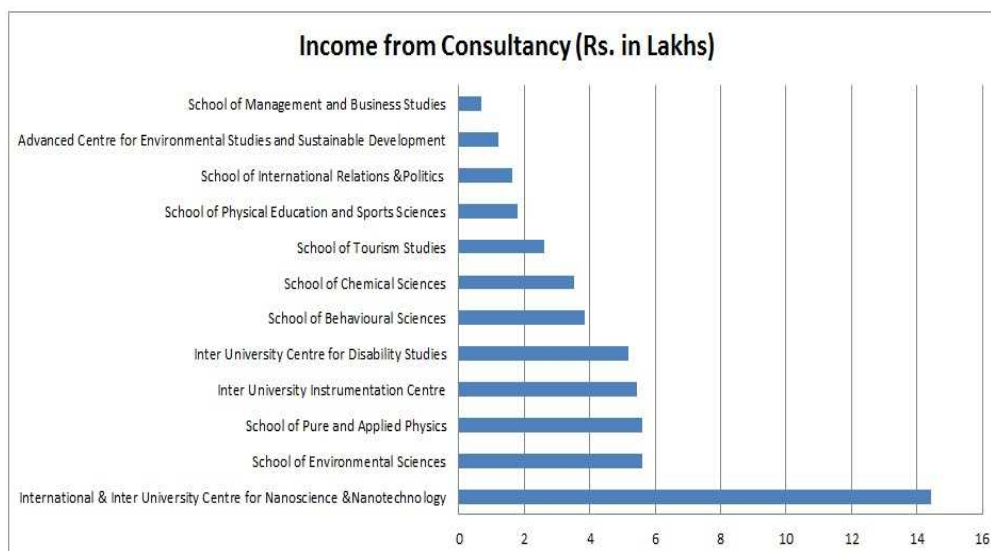
3.5.3 What is the mode of publicizing the expertise of the University for Consultancy Services? Which are the departments from whom consultancy has been sought?

The universities publicizes the expertise for consultancy services by the following ways.

1. Through website
2. Press release
3. University- Industry Interface Meetings
4. Through conferences and workshops being organised by university and other agencies.

The details of income generated are given below.

| Total Income from Consultancy | | |
|-------------------------------|--|--------------------------------|
| SL. No | Name of the Department | Income generated (Rs in Lakhs) |
| 1 | International & Inter University Centre for Nanoscience & Nanotechnology | 14.45 |
| 2 | School of Environmental Sciences | 5.62 |
| 3 | School of Pure and Applied Physics | 5.6 |
| 4 | Inter University Instrumentation Centre | 5.46 |
| 5 | Inter University Centre for Disability Studies | 5.17 |
| 6 | School of Behavioural Sciences | 3.86 |
| 7 | School of Chemical Sciences | 3.53 |
| 8 | School of Tourism Studies | 2.6 |
| 9 | School of Physical Education and Sports Sciences | 1.8 |
| 10 | School of International Relations & Politics | 1.62 |
| 11 | Advanced Centre for Environmental Studies and Sustainable Development | 1.2 |
| 12 | School of Management and Business Studies | 0.7 |
| | TOTAL | 51.61 |



The mode of publicizing the expertise of the university for consultancy services is through the websites of the Schools and Centres. The capabilities of the institutions are widely publicised through conferences, meetings and workshops.



Consultancy has been sought from School of Environmental Sciences, School of Indian Legal Thought, School of Tourism Studies, School of International Relations and Politics, International & Inter University Centre for Nanoscience and Nanotechnology, School of Physical Education and Sport Sciences, School of Pure & Applied Physics, School of Behavioural Sciences, Inter University Instrumentation Centre etc.

3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?

Initiatives for consultancy work have to come from the faculty. Funds generated through the consultancy services are pooled into the Departmental Development fund which is utilized for the developmental activities of the Department.

3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last six years.

School of Chemical Sciences and School of Environmental Sciences

Analytical facilities are made available to research scholars of other Schools / centres / colleges and these are offered for use on a suitable payment basis.

School of Environmental Sciences

1. Analytical consultancy (100 % to University as DDF)

| Year | Amount generated through instrument usage (for eg.: LC/MS) (Rs) | Amount generated from Dissertation works of students from other institutions (Rs) |
|---------|---|---|
| 2011-12 | 70,450 | 1000 |
| 2012-13 | 17,700 | Nil |
| 2013-14 | 8400 | 45,500 |
| 2014-15 | 16,600 | 43,000 |
| | Total | 2.02 lakhs |

2. Remote sensing -GIS consultancy by Dr. R. Satheesh Centre for Remote Sensing & GIS) of the School of Environmental Sciences, Mahatma Gandhi University, Kottayam during the period from 2011 to 2016

| Sl. No. | Title of the work | For whom | Funding under | Amount (Lakhs Rs.) | Financial Year |
|---------|--|---|---------------------|--------------------|----------------|
| 1 | Agro-ecological zoning of Idukki district for locating new meteorological stations | Spices Board (Indian Cardamom Research Institute, Maldumpara, Idukki) | ISRO-IGBP programme | 0.34 | 2011 |
| 2 | Short-term training | School of | TEQIP Phase | 0.70 | 2013 |



| | | | | | |
|--|---|---|--|---------------------------------|------|
| | programme in GIS, Remote Sensing and GNSSs to Engineering faculty members (20 Nos.) | Engineering, Cochin University of Science and Technology, Kochi | II of AICTE, Govt. of India | | |
| 3 | One week customized Training on Digital Image Processing to M. Tech students (12 Nos.) | Govt. College of Engineering, Kushalnagar, Karnataka | College Fund | 0.21 | 2014 |
| 4 | GIS analysis of L2 landscape area of Konni Forest Division, Kerala | Tropical Institute of Ecological Sciences (TIES), Velloor, Kottayam | Perspective plan for Green India Mission by Kerala Forests & Wildlife Department, Govt. of Kerala | 0.34 | 2014 |
| 5 | GIS based digital spatial database and Map Atlas creation at a scale of 1:4000 with 208 maps of the river sand auditing of Muvattupuzha River | Tropical Institute of Ecological Sciences (TIES), Velloor, Kottayam | River Management Cell, Reevenue & Disaster management Dept., Govt. of Kerala | 1.23 | 2015 |
| 6 | Assessment of sequestration potential of trees in Kochi city with the changing vegetation pattern | Nansen Environmental Research Centre India (NERCI), Kochi | DST funded project "Atmospheric carbon sequestration potential of trees in Kochi city under the changing environmental scenario" | 0.45 | 2015 |
| 7 | GIS based digital spatial database creation, spatial analysis and map generation at a scale of 1:4000 of six selected stretches of Chalakkudy River | Tropical Institute of Ecological Sciences (TIES), Velloor, Kottayam | Corporate Social Responsibility (CSR) Fund of Appollo Tyres, Ernakulam | 0.32 | 2016 |
| Total revenue from consultancy during the period | | | | 2.02 + 3.59 = 5.62 Lakhs | |



School of Physical Education and Sport Sciences:

Rs 1.80 Lakhs generated annually in DDF fund from consultancy services.

School of Pure & Applied Physics

Department offers help with the modalities of use of the sophisticated instruments made available for the use of researchers from other institutions and these are offered for use on a suitable payment basis. Rs 5 lakhs has been generated from consultancy service.

School of International Relations and Politics

The School of International Relations and Politics conducted a Consultancy Project sponsored by the Kerala State Rural Development (SIRD), Government of Kerala in respect of the Impact Assessment Study of the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) in the districts of Ernakulam, Kollam and Pathanamthitta. The projects were completed and the Reports of these studies were submitted to the SIRD in November 2015. The total project cost was Rs 16.2 Lakhs. Income generated from the projects was Rs 1.62 Lakhs which became part of DDF.

School of Tourism Studies

Rs. 2.61 Lakhs generated at Department Development Fund (DDF) through consultancy services offered to District Tourism Promotion Councils of Kottayam and Ernakulam.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

The university sensitizes its faculty and students on its institutional social responsibilities by inviting social activists, social scientists etc to interact and motivate the students and faculty on socially relevant issues. The various schools/centres of the university have involved in a wide range of social outreach programmes related to their major areas of specialization. They also include the activities of National Service scheme which got national awards for their meritorious service to the society. Some of the important outreach programmes of the schools/centres are listed below:

School of Behavioural Sciences

Extension activities are one of the important functions of the school. In the "Swanthanam" Clinic of the school, a clinical psychologist offers testing and diagnosing of various issues as well as providing counselling services.

A rehabilitation centre is also functioning in the department where persons with disabilities are receiving training in file board making and tea vending machine operations.

Extension lectures to make aware the public is another activity. Faculties and research scholars are engaged in conducting such camps and lectures in the



community. Identification and assessment of various disabilities are conducted under extension activity.

School of Chemical Sciences

1. **One Day in the Campus:** To inculcate an aptitude for science among school children, 'one day in the campus' programme was organized which include workshop and interaction with an eminent scholar. Students from nearby government schools are usually invited for this programme.
2. Faculties acted as Resource persons in INCULCATE and INSPIRE Programmes.
3. Conducted Quiz competition for students from various affiliated colleges.
4. Conducted Exhibition for school children (Govt.and Aided school).
5. Faculty members are usually offer talk/motivation class in schools and colleges.

School of Environmental Sciences

School of Environmental Sciences being an interdisciplinary department, extension activities of social relevance form an essential mandate of the School. In this context, every year students are encouraged to undertake extension activities as part of their curriculum. Students under the supervision of faculty members do involve in extension activities such as conducting social surveys, creating environmental awareness and major extension activities benefitting the society such as

1. Rainwater harvesting.
2. Rainwater for humanity programme.
3. Open house programme conducted for the school children to visit the school, its laboratories and more specifically the 'Jeeveka Live Laboratory'.
4. Energy conservation and water conservation studies by the MSc students.
5. Energy audit and Municipal Solid Waste audit as groups done for the campus by the PG students.
6. Water quality testing for the public which involves students and faculty members.
7. Participated in ecorestoration programme of Forest Department at Pampadum Shola national park.
8. Students take part in surveys such as fish count, butterfly count, bird count and wildlife survey conducted by various NGOs, R&D institutions, and Forest Department.

School of International Relations and Politics.

School of International Relations and Politics, Mahatma Gandhi University hosted a social outreach programme in collaboration with Rajya Sabha T. V by organising panel discussion on the theme, "Kerala vs Gujarat: Which Model is Right for India" held on 11 September 2013 which was telecast as part of RS TV's regular programme "India Interacts." The panel consisted of



Bharat Bhushan (Senior Journalist, New Delhi), Mr. Mani Shankar Aiyar (Former Union Minister and Member of Parliament), Mr. Sheshadri Chari (Member of Parliament), Mr. K.N. Harilal (Fellow, Centre for Development Studies) and John Samuel UNDP.

(<https://www.youtube.com/watch?v=qkFmKAhlB3c>). The school also hosted an young scholars conference in 2014 for researchers from various universities in India for interactions with senior scholars in the field. The faculty members also offered extension lectures as social out reach programme.

School of Indian Legal Thought

Legal Aid Programmes and Legal Literacy Programmes: The legal aid cell of the school provides assistance to poor and needy who cannot approach the court for disposal of their disputes. Former students of the department voluntarily assist the department for bringing up disputes before various courts. The legal aid cell also dispose disputes by involving in mediation.

School of Tourism Studies

Student groups undertook community projects on real-time tourism management issues with social relevance using a problem based learning approach and it offered real and practical value to them. Examples of community oriented projects include assessment of Barrier free Tourism in the major destinations of Kerala, Study on plant and wood based souvenirs of Kerala, Traditional farming practices of Kottayam district and its relevance in tourism promotion, Women entrepreneurship in Tourism etc.

School of Physical Education and Sport Sciences

The Students of the School take part in blood donation campaign.

1. School organizes summer coaching camp in different sports and games.
2. Sending students for organizing tournaments and programs to different organizations.
3. School runs a Fitness centre for the society for the promotion of good health.
4. Awareness programmes on good Health practices are given to public through the Department Fitness Centre.
5. All MPED Students were appointed as the volunteers and venue Assistants for the conduct of 35th National Games, Kerala, 2015.

International and Interuniversity Centre for Nanoscience and Nano Technology –IIUCNN

1. Prof.Sabu Thomas gave talks on Green Farming and Plastic Recycling at the Villages in Kaduthuruthy.
2. The Students and Faculty visits orphanages and provided monetary support.

3.6.2 How does the university promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?

The Department of Life Long Learning and Extension is the leading Department entrusted with extensive extension activities. The Department is



regularly conducting home stay camps in the nearby villages including Nalpathimala Village, adjoining the MG University campus. The students are accommodated in the houses of the villagers for a week. Interaction and living with the villagers will have a positive impact on the outlook of the students towards the society. They get service orientation by engaging themselves in the social service activities, charity work, volunteering, setting up of public spaces like library, road construction, medical camps, blood donation camp, cancer detection programme, awareness programmes on drug use and alcoholism. The students will be sensitized on various aspects of personality development, communication skills, computer and web literacy. Legal literacy is also provided to the students. They are promoted to participate in the democratic process besides imparting citizens' rights and duties.

3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?

The university has formed a department for Life Long Learning Extension which is engaged in a wide range of extension activities. The NSS unit has done exemplary service to the society for which it has got many national and state awards.

Department of Life Long Learning and Extension coordinates the following activities: nature camps, organic farming, water quality preservation, river protection campaigns, green campaigns, social forestry, waste management initiatives, road safety campaigns, public health campaigns, sensitization on cruelty against women and voting related campaigns of the election commission.

School of Physical Education and Sport Sciences

1. Conducts summer coaching camps for school students in different Sports and Games.
2. Effectively runs a Fitness Centre for Students, Staff and Public.
3. Conduct various short term coaching camps and other physical activity programmes in neighbouring Schools and Colleges.
4. The students have active participation as Officials in various major tournaments within the State.
5. All students acted as volunteers and venue Assistants in 35th National Games, Kerala, 2015.

3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?

The various schools/centres have undertaken a number of activities in their area of specialization to ensure empowerment of the marginalized. Some of the major activities are listed below:



School of Environmental Sciences

Students under the supervision of faculty members do involve in extension activities such as conducting social surveys, creating environmental awareness on energy conservation and water resource management.

School of Behavioural Sciences

The School of Behavioural Sciences encourages research work among underprivileged and vulnerable sections of the society. Some of the research projects done by the research scholars during the past years include studies among street children, residents of destitute homes, old age homes, special schools, personality of young adult women staying in slums etc. Studies were done among tribal people of Attappady, Agasthyakoodam tribal area as well as among students belonging to tribal community from Idukki, Palakkad, and Wayanad districts.

Department of Life Long Learning & Extension

The major extension and outreach programmes undertaken by the department are given below:

1. Set up one hundred organic Farming Clubs
2. Learning Disability Early Detection Camps
3. Counselling sessions for parents and students with Learning Disability
4. Social Rehabilitation of differently-abled
5. Yoga for the Masses- A Public Health Initiative
6. 100 Yoga Clubs
7. Counsellor On Call programme
8. Environment enrichment Programmes
9. River Protection Activities in Periyar, Meenachil and Pampa rivers
10. Preventive Medical Camps
11. Tree Planting

The Department in association with the National Service Scheme of Mahatma Gandhi University and conducted the following Intercollegiate Programmes.

1. Training Programme for making Eco-friendly Paper bags-06/08/2011
2. One day seminar-The role of judiciary in social justice-23.2.13
3. One day seminar on Personality Development-11.1.2014
4. One day workshop on Gandhian Principles-28-10-2014
5. Three day camp-Pampa Sabarimala Environment conservation-05-07, December 2014
6. One day programme-Dr.A.P.J.Abdul Kalam-the visionary who walked ahead of times-15-10-2015
7. Intercollegiate workshop-“RAKSHAN -16 on the topic of disaster management-12/2/2016-14/02/2016
8. One day intercollegiate seminar on organic farming and sustainable agriculture-27/02/2016
9. Three day camp on Media-19/08/2016 to 21/08/2016



School of Tourism Studies

The students have undertaken access audit and assessment of Barrier Free Tourism in major destinations of Kerala for three years. The projects have created an awareness of the need for universal design, accessible accommodation, transportation and accessible public amenities in the state.

3.6.5 Does the university have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

All activities are organized under the guidance of any one of the Schools/Centres/Departments which provides the University a direct means to track involvement of various activities of NSS and other extension programmes. Students are encouraged to participate in various essay competitions connected with national interests. The School of Pure and Applied Physics had hosted the Shastrapratibha competition for inculcating scientific temper in school students and 'student' police cadets, conducted by the Swadeshi Science Movement and the research scholars of the department had rendered voluntary service in conducting the competitions. Students of various schools/centres have participated in the blood donation camps. Students and faculties raise funding in different occasions for supporting financially weak students who suffer from various chronic ailments.

3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.

School of Behavioural Sciences

The extension activities were designed to promote building of knowledge along with requisite skill to perform adopting a positive attitude. Hence before each programme a participatory planning is done specifying the objectives and requirement of each of the activity. This helps the students to have a realistic perception of the needs of the community and to respond adapting to their situation. The real life situations help in identifying the practical issues in applying theoretical knowledge in the social context. Respect for life, society, social norms are also fostered through this approach. Civic consciousness also is awakened and the student is helped to identify his responsibility as an educated member of the society.

Archeological Museum in School of Social Sciences

School of Social Sciences has an archaeological museum of approximately 850 sq.ft. The theme of the museum collections is based on the history of Kerala. It's a walk through the Paleolithic, Mesolithic, Neolithic, Megalithic periods to the medieval period. The objects are displayed in a chronological sequence along with posters explaining the historical significance. The major collection consists of a variety of artifacts of different periods and from different regions. The collection includes different varieties of pottery (Redware, Blackware, Black and Red Ware, Roulettedware, Chinese and glazed Islamic ware) burial urns, iron implements, beads, coins, Vattezhuttu



inscription and stones sculptures. Students are given a hands on experience in learning archaeology in the museum.

Department of Life Long Learning & Extension

- Socio-economic survey was conducted among the traditional artisans and craftsman in Central Travancore. Later Technical advice was imparted to the artisans and craftsmen to improve their efficiency levels for which workshops were conducted. Hassle –free production processes were chalked out. Later the produce of the artisans were exhibited in the University Campus at THANIMA for exposure and sales. All prominent artisans were honoured by the University.
- Socio Economic Survey is being conducted in the Ward VIII of Athirampuzha (Central) Panchayat, which has been chosen for adoption recently.
- Geriatric Mental Health survey in association with Department of Masters in Hospital Management, SME, before initiating interventions for Alzheimers disease.
- Socio- Economic survey planned in Edamalakkudy, the lone Adivasi Panchayat in South India for appropriate interventions with the active support of the Alumni Association. Proposal for setting up of a Cultural Centre in Edamalakkudi is under progress.

School of Tourism Studies

The activities of students from School of Tourism Studies include social surveys, data collection, project management and case study done in consultation with local tourism/leisure industry suppliers. The programme is monitored and evaluated and is used to refurbish and acquire knowledge. This is used to acclimatize with the syllabus and distribution of knowledge. These community based academic activities complement the student's holistic academic development as they have to undergo a process of transparency and team work. The students also learn various leadership, communication and problem solving skills.

3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.

School of Environmental Sciences

The School of Environmental Sciences has given top priority to research with a focus to benefit the society. The school has identified lack of drinking water and sanitation as the two key issues faced by the rural society of this region. Research finding of this school has narrowed down to installation of rain water harvesting structures in a rural village 'Achinakom' in Vechur Panchayath where acute drinking water scarcity has been noticed due to saline water contamination. The school has started an extension programme 'Rain water for Humanity' in collaboration with Brown University (USA) through which about 25 rainwater harvesting structures (both individual as well as community level structures) have been successfully installed. The highlight of this programme is all these structures were constructed with the society's

participation and the people of this region maintain these structures by themselves. Based on the success of this programme, the school was granted the prestigious Indo- US collaborative project of UGC ‘Singh – Obama 21st century Knowledge Initiative (UGC-OSI)’. The funding through this project helped to continue its research on establishing more cost effective rainwater harvesting structures and on sustainable sanitation suitable to this region.

School of Behavioural Sciences

The School of Behavioural Sciences ensures involvement in community activities and contribution to community development in its teaching research and extension activities. Some of the activities are given below:

- The School organised a hearing assessment camp collaborating with National Institute of Speech and Hearing, Thiruvananthapuram. Hearing aids were distributed free of cost for those found to have conductive hearing loss.
- During Onam festival, the NSS volunteers of the School identified eligible persons in the neighbouring Panchayat with help of local leaders and extended help in meeting their basic requirements.
- Organised a series of extension activities in the community to promote awareness regarding disability and rehabilitation under the programme JOTHIRGAMAYA.
- Organised and conducted medical camps to facilitate early identification of developmental disabilities under the scheme PRATHEEKSHA
- Organised and conducted a series of training programmes for ASHA workers, and parents to enhance skill in rehabilitation of persons with disabilities under the project NAIPUNYA.
- Orientation workshop on Braille – English and Malayalam to school teachers.
- Seminar on National Trust Act, 1999 and Legal Guardian ship for the parents of individuals with autism, cerebral palsy, mental retardation and multiple disabilities.

Department of Life Long Learning and Extension

Reaching the fruits of the knowledge developed to the common man through appropriate methodologies is the objective of the Department.

- The Department offers Five programme – Four certificate programmer of six month duration viz Yogic Science, Counselling, Organic Farming, Learning Disability and an year-long Diploma programme in Yogic Science. All the programmes are well received by the students cutting across the wider cross section of the society representing all age groups. The programmes enable the students to get the desired level of proficiency in the respective area. The students mandatorily attends to filed visits and public interface programmes.
- The students of Yoga under the supervision of the faculty regularly conduct extension activity through **Yoga For Masses, a Public Health Initiative**. Basics of yoga is introduced to the public as part of the



initiative, to check growing life style diseases and its impact on the public health, minimizing medicines and its side effects. Healthy disciplined way of living, healthy food habits, positive physical and mental health at moderate cost is imparted through this initiative. Prevention of diseases is the prime concern, ensuring enhanced overall efficiency of the individuals. The initiative has produced amazing results for the participants, students as well as the general public, in checking of unhealthy practices, as well as minimizing of the psychosomatic disorders, stress, depression and anxiety. 480 Yoga professionals who are appropriately skilled to provide training for the public have passed out from the Department during the last four years. More than 250 Yoga training centres have been launched by the MGU Alumni besides reaching the message of Yoga to more than 25,000 people through mass contact programme.

- To meet the acute shortage of qualified counsellors and for the sensitisation of the society, the department launched its certificate programme in counselling. 400 students covering the wider social circle right from farmers to doctors, engineers, police officials, teachers, nurses, advocates and social workers have cleared the program in the last four years. The Department offers **Counsellor on Call** to the students and educational institutions as and when required. More than 5000 students have been counseled through the system so far. Many Alumni have started Counselling Centres while others got employed or are utilizing their acquired skill sets in their area of work.
- The Department launched a certificate programme in learning disability rendering a helping hand to the suffering parents and their family. The students are trained to assess the EQ level of the children with scientific tools and appropriate intervention possibilities are also taught. They conduct field study and are equipped to recommend corrective mechanisms. The students and the faculty conduct regular Learning Disability Early Detection Camps for appropriate remedial measures for assured progression of the children with disability. Sensitisation programs also conducted for the benefit of the teachers.
- The University came up with the Certificate level programme in Organic Farming which has been well received. The students of the Department have been sent to all colleges under the University as brand ambassadors of organic farming. 100 Organic Farming Clubs have been set up in colleges under the university, and the cumulatively all the Clubs have produced vegetables worth Rs 50 lakhs.

School of Pure & Applied Physics

The department had hosted the *Shastrapratibha matsaram* for inculcating scientific temper in school students and 'student' police cadets, conducted by the Swadeshi Science Movement and the research scholars of the department had rendered voluntary service in conducting the competitions which were attended by a large number of students and their parents. Faculty as well as students interacted with the guests to the department in a most effective manner.



3.6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.

| Awards/recognitions | |
|--|---|
| <p>Obama Singh 21st Century Knowledge Initiative</p> <p>The School of Environmental Sciences was granted the prestigious Indo- US collaborative project of UGC ‘Obama-Singh –21st century Knowledge Initiative (UGC-OSI)’. The funding through this project helped to continue its research on establishing more cost effective rainwater harvesting structures and on sustainable sanitation suitable to ‘Achinakom’ in Vechur Panchayath region of Kottayam district.</p> | |
| <p>Dr.K.Sabukuttan, Head, Department of Life Long Learning and Extension</p> | |
| | <ul style="list-style-type: none"> Received Indira Gandhi NSS Award for the year 2013-2014 for the Best NSS Programme Co-ordinator from the Hon’ble President of India Sri Pranab Kumar Mukherjee. Received Indira Gandhi NSS Award (Certificate of Appreciation) for the year 2012-2013 for the best NSS Programme Co-ordinator from the Hon’ble President of India Sri Pranab Kumar Mukherjee. Received the IPCAI National Award for the outstanding contributions in the field of Community Organisation through National Service Scheme of Mahatma Gandhi University in November 2016. Received Life time Achievement Award in 2014 for promotion of yoga and Naturopathy from the Indian Martial Arts Academy Thrissur, Kerala Received Sarojini Damodar Foundation Award twice for the recognition of his service in propagating Organic Farming in 100 affiliated colleges under Mahatma Gandhi University during the year 2016 and also for the academic contributions in spreading the message of Organic Farming by starting Certificate and Diploma Courses at the University. Received Certificate of Honour for the incredible contributions in Social Service for the years 2012-13,2013-14 and 2014-15 by Kerala Action Force, Anwar Pain and Palliative Care and IMA Madhya Kerala Received the Youth Promotion Award 2014 from the Centre for Research and Action (CIRA) in recognition of Significant Contribution in the field of Youth Development Received the Best Programme Co-ordinator Award during the year 2013-14 and 2015-16 |



3.7 Collaboration

3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?

University promotes high level of collaboration with academia and industries from India and abroad. MoUs and LoAs have been signed with a large number of academic and industrial organisations. These collaborations resulted in joint publications, patents and exchange of students and faculty members. Some of the important collaborations of various schools and Centres are listed below:

School of Computer Science

MNC's / organizations with which School of Computer Science constantly interact includes ISRO, C-DAC, C-DIT, NPOL, BARC, Siemens, Keltron, Microsoft, Oracle, Lucent Technologies, Infosys, Wipro, CMC, IMR, BaaN, HP, BFL Software, Pentasoft, US Software, HBS, Suntec, Polus Software etc. The school also maintains close academic tie-ups with Department of Computational Biology and Bioinformatics, Department of Computer Science, University of Kerala, ISRO Thiruvananthapuram, Cochin University of Science and Technology and Kannur University.

School of Chemical Sciences

School of Chemical Sciences has engaged in research activities in collaboration with the following institutions.

- Rzeszow University of Technology, Poland
- University of Ulster, Northern Ireland
- Institute for Polymer Research Dresden (IPF), Dresden, Germany (Prof. Dr. Manfred Stamm and Dr. Jurgen Pionteck)
- University Technology Mara (UiTM), Malaysia (Dr. Chan Chin Han)
- Vikram Sarabhai Space Centre, (ISRO), Trivandrum
- Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
- NIIST(CSIR), Trivandrum
- Université Paris-Sud 11, Orsay, France
- Leibniz-institut für Katalyse e.V (LIKAT), Rostock, Germany,
- NIIST-C Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram
- Kyushu University, Japan SIR, Trivandrum, Indian Institute of Science, Bangalore
- University of California, Santa Cruz, USA
- Vanderbilt University, USA
- University of Texas in Arlington, USA
- Functional Materials Division, Pusan National University, Busan, Korea
- University of Paris Sud, France



- National Chemical Laboratory, Pune
- University of Alberta ,Canada

School of Behavioural Sciences

The School of Behavioural Sciences has engaged in the research and extension activities in collaboration with the following institution and agencies.

1. National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD).
2. National Institute for Visually Handicapped (NIVH).
3. National Institute for Hearing Handicaps- Mumbai
4. Nirmala Sadan College of Special Education, Muvattupuzha
5. Vigyan Valley Institute of Learning , Eranakulam
6. National Institute for Hearing Handicapped (NISH) Thiruvananthapuram.
7. Snehasadan College of Special Education, Angamaly
8. Janey College of Allied Health, Eroor, Kochi.
9. St. John the Baptist College of Special Education, Nedumkunnam.
10. St. John of God College of Special Education, Velloor, Pampady.
11. Nirmalasadan Training College for Special Education, Muvattupuzha
12. National Institute for Speech and Hearing, Thiruvanthapuram
13. Mental Health Centre, Trichur, Calicut and Thiruvananthapuram
14. Vigyan valley, Ernakulam
15. AYJNIHH, Mumbai
16. National Institute for Visually Handicapped, Calicut
17. National Institute For Empowerment Of Persons With Multiple Disabilities, Chennai

School of Environmental Sciences

UGC-Obama Singh 21st century knowledge initiative programme: Faculty and student exchange was one among the major highlights of this Indo-US programme operated by the School and ACESSD (Inter-university Advanced Centre for Environmental Studies and Sustainable Development) in collaboration with three US universities; Brown University, Duke University and Plymouth State University.

The School of Environmental Sciences (SES) has entered into collaborative research with CALTECH, USA. This collaboration is on sustainable sanitation titled “Development of Self contained, PV powered domestic toilet and waste water treatment system”. Through this collaboration a team of researchers from CALTECH and SES have worked on the functioning of the toilet by monitoring the efficiency of the system. The major gains include knowledge gain with hands-on-experience and financial support to the scholar.



School of Pure and Applied Physics

International collaboration

- Dr. Indulekha K collaborates with International Science Development Team for Milky Way & nearby Galaxies which is nationally pooled funding by India TMT (Thirty Meter Telescope).
- Dr. Nandakumar Kalarikkal collaborates with UGC-DAE-CSR Kolkata (2014- 2017) on nanoparticle aggregation behavior in polymer nano-composites.
- Dr N V Unnikrishnan collaborates with Sultan Qaboos University for research programs in the field of Self assembly of nanostructures. He also collaborates with CSIR and Central Glass and Ceramic Research Institute.
- Collaboration with University of Leeds in the field of Sol Gel; materials and Characterization.

Other Institutional Collaborations

1. Bhabha Atomic Research Centre (BARC), Mumbai
2. Centre for Materials for Electronics Technology, Thrissur
3. Cochin University of Science & Technology Cochin
4. Inter University Centre for Astronomy & Astrophysics -Pune
5. Institute of Microbial Technology Chandigarh.
6. Raman Research Institute, Bangalore, India
7. Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India
8. UGC-DAE Consortium for Scientific Research-Kolkata Centre,
9. Inter University Accelerator Centre, New Delhi, India
10. Instituto de Optika, CSIC, Madrid, Spain.
11. City University of Hong Kong, Hong Kong.
12. Walter Sisulu University, South Africa
13. Jožef Stefan Institute, Ljubjana, Slovenia
14. Trent University, Canada

School of Letters

School of letters has conducted a number of programmes in collaboration with Sahithya Academy, New Delhi, Kerala sahithya Academy, National Translation Mission, Kerala Folklore academy, Kerala Chalachithra Academy etc.

School of Management and Business Studies

SMBS has collaboration with Management Development Institute, Gurgaon which has benefitted SMBS academically.

School of Tourism Studies

Collaborative research with Indian Institute of Tourism and Travel Management, Ministry of Tourism, ICSSR, District Tourism Promotion

Councils, nongovernmental organizations, rural self help groups etc. has enabled the school to bring excellence in academics by opening up new avenues for co-operation and diversification of activities. Interactions and linkages with faculty members of other institutions have helped the School to develop new innovations in curriculum development, research and consultancy.

International and InterUniversity Centre for Nanoscience and Nanotechnology-IIUCNN

This centre collaborates with the following national institutes / industries:

1. Dept of Materials Engineering, Indian Institute of Science (IISc), Bangalore
2. Rubber Research Institute of India, Kottayam, Kerala, India - 686 009
3. NIIST, Trivandrum, Kerala, India - 695 012
4. Central Power Research Institute, Bangalore, India - 56094
5. Vikram Sarabhai Space Research Centre, Trivandrum, India
6. Rubber Technology Centre, Indian Institute of Technology, Kharagpur, India
7. COMPTech, Indian Institute of Technology, Chennai
8. Polymer Chemistry Division, National Chemical Laboratory, Pune, India
9. Sree Chitra Thirunal Institute of Medical Sciences and Technology, Trivandrum, Kerala, India
10. Central Institute of Plastic Engineering and Technology, Guindy, Madras, India
11. Department of Polymer Science & Rubber Technology, Cochin University of Science & Technology, Cochin - 22, Kerala, India
12. Indian Institute of Chemical Technology, Hyderabad, India
13. Laboratory of Condensed Matter Physics, Department of Physics, University of Rajasthan, Jaipur, India
14. Reliance Industries Limited, Maker Chambers IV, 3rd Floor, 222, Nariman Point, Bombay
15. Elastomers Technical Services, Madurai, India
16. High Polymer Engineering Division, Department of Chemical Engineering, Indian Institute of Technology, Madras, India
17. Department of Chemistry, Karnatak University, Dharwar, Karnataka, India
18. Department of Civil Engineering, Indian Institute of Technology, New Delhi, India
19. Common Facility Service Centre, Industrial Estate, Changanacherry, Kottayam, Kerala, India
20. Department of Physics, University of Mysore, Mysore



Collaboration with international institutes / industries:

1. Macromolecular Science & Engineering Research Centre, Laval University, Quebec, Canada G1K7P4. (Prof. Prud'homme)
2. Abt. Kunststoffee/Verbundwerkstoffe, TU Hamburg-Harburg, AB 5-09, Denickestraße 15, D-21073 Hamburg, Germany (Prof. V. Alstädt)
3. Technische Universität Chemnitz, Polymerchemie, Straße der Nationen 62, 0911 Chemnitz, Germany (Prof. Steffan Spange)
4. Directeur de ENSCCF, 24 avenue des Lais, BP - 187 - 63174 Aubiere, Cedex, France (Prof. Jacques Lacoste)
5. Laboratory of Macromolecular Structure Chemistry, Department of Chemistry, Katholieke University of Leuven, Belgium (Prof. Gabriel Groninckx)
6. Martin-Luther-Universität Halle Wittenberg, FB Physik, Fridemann-Bach Platz 6, 06108, Halle, Germany (Prof. Manfred Knorgen)
7. Assoc. Prof. of Polymer Physics, University of Chemical Technology Metallurgy, 8, Kilment Ohridski Blvd., 1756 Sofia, Bulgaria (Dr. Christo Betchev)
8. Institute of Material Science & Technology, Martin-Luther-Universität, Halle-Wittenberg, Postanschrift D-06099 Halle, Haussanschrift Geusaer Straße, Germany (Prof. (Dr.) Ing. Hans-Joachim Radusch)
9. Institute of Composite Materials Ltd., University of Kaiserslautern, Kaiserslautern, Germany (Prof.(Dr.) Jozef Karger Kocsis)
10. Institute of Polymer Research, Hohe Strasse 6, D- 01069 Dresden, Germany (Prof. Manfred Stamm, Dr. Jurgen Pionteck, Dr. Petra Poetschke Dr. Cornelia Bellman)
11. CNRS Lab, Laboratoire de Recherche sur les, Polymers, UMR 7581-CNRS, 2-8 rue Henri Dunant, 94320 Thiais, Paris, France (Prof.(Dr.) Francoise Laupretre)
12. R&D, Du Pont, Wilmington, Delaware, USA (Dr. Joseph V. Kurian)
13. Institut des Matériaux de Rouen, faculté des sciences, BP12, 76801 Saint etienne du rouvray, responsable de LECAP, équipe de l'UMR6522 Polymères-Biopolymères-Membrane, France (Prof. Jean Marc Saiter)
14. Laboratoire L2PIC, University of South Brittany, Rue Saint Maude, Lorient Cedex, France (Prof. Yves Grohens)
15. Polymers Nanotextures & Nanocomposites, Centre de Recherche sur la Matière Divisée 1B, rue de la Ferrollerie, 45071 Orleans Cedex 2, France (Dr. Christophe Sinturel)
16. Beijing University of Chemical Technology International Exchanges and Cooperation Dept, Add. No.15 Beisanhuan East Road, Beijing 100029, P.R.China (Dr. Yang Weimin)



Centre for High Performance Computing-CHPC

1. Research scholars of School Chemical Sciences and School of Pure and Applied Physics are availing the facilities of the Centre.

Institute for Contemporary Chinese Studies - ICCS

1. Jinan University, Guangzhou, China.
2. Institute for Chindian Studies, Jinan University, Guangdong Province, China.
3. Catholic University of Korea (CUK), Seoul.

3.7.2 Mention specific examples of how these linkages promote

a) Curriculum development

In School of Environmental Sciences, the UGC-Obama Singh 21st century knowledge initiative programme has helped to update the curriculum in consultation with the US scientists/ scholars.

b) Internship

- With help of Obama-Singh programme, School of Environmental Sciences has undertaken active student exchange/ internship programme with three Universities in US (Brown, Plymouth, Duke)

School of Tourism studies has linkage with 23 travel and tour companies and 6 major hotels and resorts for internship training (Travel Services Internship and Hospitality Services Internship) of students as part of the PG programme.

The final year students of School of Management and Business Studies are getting an opportunity to attend a one month summer internship at Management Development Institute, Gurgaon

c) On-the-job training

Some of the M.Tech students of School of Chemical Sciences go to Industries to get on the job training

d) Faculty exchange and development

In School of Environmental Science the collaboration with Pohang University of Science and Technology, Korea, facilitated two Ph.D students to have research training for about 1 year during their course period. The collaboration with University of Paris (E) facilitated mutual visit of Senior Professors from both the sides and this resulted in joint publications as well

Linkages established with agencies have made it possible for students of School of Tourism studies to undergo compulsory internship in tour and travel companies as well as hospitality establishments as part of their programme.

e) Research

In School of Environmental Sciences, the Obama-Singh knowledge initiative programme has accelerated many research programmes in specialised areas as well as programmes of societal importance. Research areas initiated: Community rain water harvest systems; Fuel cell development; Ecology and water quality sensors



f) Publication

Has helped to increase the number of publications as well as impact factor of the publications. IIUCNN have many joint high impact publications with many labs abroad

g) Consultancy:

The university has generated a considerable amount of Rs. 66.19 lakhs as a result of its consultancy services in various fields of activity.

h) Extension

The School of Environmental Sciences has started an extension programme 'Rain water for Humanity' in collaboration with Brown University (USA) through which about 25 rainwater harvesting structures (Both individual as well as community level structures) have been successfully installed. The highlight of this programme is all these structures were constructed with the society's participation and the people of this region maintain these structures by themselves. As a result of its extensive extension activities, the school could bag Obama-Singh 21st century Knowledge Initiative (UGC-OSI) project and the school received substantial funding through this project. This has helped the school to research more on establishing cost effective rainwater harvesting structures and on sustainable sanitation suitable to this region

i) Student Placement

In the School of Tourism Studies almost all pass out students are placed in reputed travel, tour and hospitality establishments. The School has linkage with twenty travel and tour companies for placement.

j) Any other (please specify)

In School of Environmental Sciences, a team of researchers from CALTECH and SES have worked on the functioning of the toilet by monitoring the efficiency of the system. The major gains include knowledge gain with hands-on-experience and financial support to the scholar.

3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/ industries/ corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?

Yes. The School of Environmental Sciences has various MoUs with institutions like: CALTECH, USA, BARC Mumbai, Duke University, USA, Plymouth State University, USA, Brown University, USA, Pohang University of Science and Technology, Korea, University of West of England, UK, National Centre for Antarctic and Ocean Research (NCAOR), Goa (Linkage)

National Remote Sensing Agency, Hyderabad. Under all these programme research in frontier areas of Environmental Science is being carried out. In addition there is ongoing programme on student exchange with some of these institutions. There are also joint publications with some of these institutions. Under the collaboration with NCAOR, Goa we are now part of the Arctic

expedition programme of India. Researchers from the School have been visiting Arctic under this expedition programme since 2013.

School of Pure and Applied Physics has signed the following MoUs:

1. National pooled funds utilized for the promotion of teaching & research in Astronomy & Astrophysics under a MoU with the Inter University Centre for Astronomy & Astrophysics (IUCAA, Pune)-DrIndulekha K
2. National pooled funds utilized for science development for the Square Kilometer Array under a MoU with the Square Kilometer Array India Consortium – Dr.Indulekha K

School of International Relations and Politics: The School has signed MoUs with the Jinan University, China, Institute of Political Studies, Renn, Institute of Political Studies, Bordeaux, France and the University of Jammu.

School of Management and Business Studies

Mahatma Gandhi University has signed an MOU with Management Development Institute, Gurgaon which is benefitting the final year students of School of Management and Business Studies. Students are getting an opportunity to attend a one month summer internship at MDI. These students are selected through a rigorous process by the University management department on the basis of merit and other criteria set by the university department. MDI offers a limited number of courses of study that can be taken up by the students for the purpose of supplementing the course curriculum offered by their home institution. These courses act as a substitution to some of the elective courses that students may have otherwise pursued at the home institution. These will be recognized through grade transfers from MDI and accepted by the home institution/ partner institution, ensuring work-load balance for the student.

School of Behavioural Sciences has MoUs with the following institutions

1. Snehasadan College of Special Education, Angamaly
2. Janey College of Allied Health, Eroor, Kochi.
3. St. John the Baptist College of Special Education, Nedumkunnam.
4. St. John of God College of Special Education, Velloor, Pampady.
5. Nirmalasadan Training College for Special Education, Muvattupuzha

School of Computer Sciences

The University has entered into partnership with the Spoken Tutorial Project Team of IIT Bombay.

Dr. Bindu V R, Head of Department, School of Computer Sciences is the chief co-ordinator of the University. An MoU was signed on 27.08.2014.

The Spoken Tutorial Project is an initiative of the National Mission on Education through ICT, Ministry of Human Resource Development, Government of India. The objective is to conduct Software Training Workshops on FOSS (Free & Open Source Software), absolutely Free of Cost, with the aid of Spoken Tutorials.



International and InterUniversity Centre for Nanoscience and Nanotechnology has the following MoUs:

MoU Signed with National Institutes

1. MRF Ltd, Chennai
2. Pushpagiri Reserach Centre, Kerala, India
3. Department of Mechanical Engineering, Rajiv Gandhi Institute of Technology, Kottayam
4. VIT University Velloor, Tamilnadu
5. Aalathoor Pharmaceutical Manufactors Association, Kerala, India
6. GE India Technology Centre Pvt.Ltd, Bangalore

MoU Signed with International Institutes

1. King Mongkuts University of Technology North bangok Thailand
2. The Ecole Nationale Superieure des Minesd'Albi-Carmaux, France
3. Bursa Technical University, Turkey
4. University of Technology Faculty of Production Engineering Instistute of Mechanics and Printing Department of Printing Technology, Croatia
5. Dekin University, Australia
6. University of Le Mans France
7. University of Kazakhstan, Kazakhstan
8. University of Rouen, France
9. Universiti Tecknologi , MARA, Malesia
10. Walter Sisulu University, South Africa
11. Kansas State University USA
12. Laboratoire Des Sciences Anlytiques CNRS UMR5280, France
13. University of Lorraine, Nancy France
14. Deakin University Water front campus, Geelong, Australia
15. Changwon National University, Korea
16. Almaty Institute of Power Engineering and Telecommunication, Kazakhstan
17. Siberian Federal University Russian Federation, Russia
18. University of Petoria, South Africa

These MoUs have helped the centre to have many joint high impact publications, patetns and student excchange programme.



3.7.4 Have the university-industry interactions resulted in the establishment /creation of highly specialized laboratories / facilities?

Interactions with industry has resulted in improving the research facilities available in the University department which are involved in University-Industry collaborative research. Atomic Force Microscopy was setup in School of Chemical Science in collaboration with Apollo Tyres, India. The Ingenuity Lab of University of Alberta has signed an MoU with Mahatma Gandhi University to set up Ingenuity lab in the MGU campus.

Any other information regarding Research, Consultancy and Extension, which the University would like to include.

At present Mahatma Gandhi University offers research programmes in over forty disciplines through its own Schools as well as through its approved research centres.

- The University has close collaboration for academic, research and extension programmes with a number of national agencies and institutions including the UGC, DST, DRS, ISRO, COSIST, CSIR, DAAD, STEC, ICMR, BRNS, MoES, ICCR, ICHR, IED, IIFT, Institute of Chinese Studies and the Sahitya Akademi.
- The University is also involved in active collaboration with research institutions of international reputation such as the Max Planck Institute, Germany, Institute of Polymer research, Dresden, Germany, University of Paris 12, France, University of Strasbourg, France, Deakin University, Australia, Brown University, USA, University of Nantes, France, California Institute of Technology, USA, University of Toronto, Canada, Catholic University, Belgium, Heidelberg University, Germany, and the Institute of Political Studies, Rennes, France, POSTECH, South Korea.
- The web-enabled University Library with its large collection of books, journals and e-journals, the online theses digital library that provides open access to its enviable collection of digitized Ph D dissertations, the publishing unit which has brought out hundreds of titles in Malayalam, English and Hindi, the facilities available at the School of Physical Education and Sports Sciences for developing physical culture, the ecologically sensitive extension programmes initiated by the University Departments and the National Service Scheme, the Students' Web Centre that provides round-the-clock web-support to the campus community.
- The Department of Science and Technology identified 30 Universities with H-index ranging from 42-26 for R&D support during 2010- 2011. Mahatma Gandhi University, Kottayam with an H-index of 35 was ranked 8 among the 30 Universities.
- Further a second study was conducted by DST during the second phase of the PURSE programme based on research output of the University. Based on the h-index value of the publication the second phase of

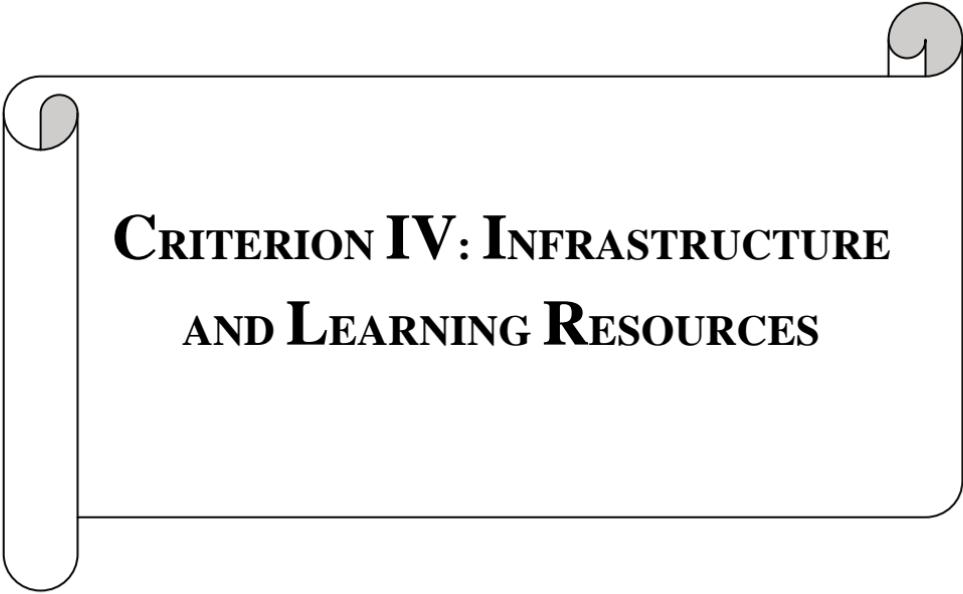


PURSE has been sanctioned to 14 Universities in India of which Mahatma Gandhi University was also a recipient.

- Prof. Dr. Sabu Thomas, Professor, School of Chemical Sciences and Hon. Director International and Inter University Centre for Nanoscience and Nanotechnology has the highest h-index (78), highest number of Citations (26,655) and highest number of publication (820) as per Google scholar in the state of Kerala.
- Mahatma Gandhi University Kottayam was one among the four institutions and the only state university in India for having been awarded the “Obama-Singh 21st Century Knowledge Initiative” by UGC for the period 2012-15.
- The research output of Mahatma Gandhi University was again recognised by DST and was sanctioned funds for establishing the SOPHISTICATED ANALYTICAL INSTRUMENTATION FACILITY (SAIF) 2015-2018.
- Mahatma Gandhi University was the only University in Kerala to be awarded the DBT BUILDER Programme for the period 2012-17.
- Mahatma Gandhi University was part of India’s expedition in Polar regions.

School of Environmental Sciences has started participating in Indian Arctic Expedition program of ESSO-National Centre for Antarctic and Ocean Research, Ministry of Earth Sciences since 2013 through a project titled “Mercury Geochemistry in the Sediments of Kongsfjorden, Ny-Alesund, Arctic” (PI: Dr. Mahesh Mohan). The project was completed with two expeditions (2013-14 and 2014-15).

- School of Environmental Sciences has actively participated in the Polar (Arctic and Antarctic) environmental research expert committees. Dr. CT Aravindakumar was an expert member of Arctic selection committee – 2015 and Antarctic Selection Committee – 2016. He was also selected as Group leader in Environmental Science, Polar science policy deduction for Ministry of Earth Science, 2016.
- The linkage between School of Environmental Sciences and ESSO-NCAOR has helped Mahatma Gandhi University to excel in the Polar Research. Both faculty and students (6 nos.) has got opportunity to participate in Arctic Expeditions. Three scholars were doing their research on Arctic Environment.
- Some of the faculty members serve as experts in the working group of the Kerala state planning board, Government of Kerala. Prof. K.M Seethi, SIRP, Prof. Sabu Thomas and Prof. C T Aravindakumar, SES are currently serving the planning board.

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**CRITERION IV: INFRASTRUCTURE
AND LEARNING RESOURCES**



CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 How does the University plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The University has a Planning Board headed by the Vice-Chancellor and consists of nominees of the Chancellor, UGC and State Planning Board followed by Registrar, Finance Officer and members nominated by various teaching departments. University gets financial assistance from the UGC and state government. The Planning Board examines concrete proposals from various departments based on their actual requirements and takes appropriate decisions. The Syndicate of the University has constituted a Works Monitoring Committee which consists of Syndicate members amply supported by the University Engineer and an external technical expert who monitors and supervises all the ongoing construction projects of the University.

The Planning and Development wing of the University deals with the submission of proposals related to infrastructure, asset management, and space management. It includes mobilization and administration of plan funds from the State, UGC, sponsoring bodies like Department of Science and Technology, Department of Bio-technology, Indian Council of Medical Research, Indian Council of Social Science Research, Council of Scientific and Industrial Research, Kerala State Council for Science, Technology and Environment (KSCSTE) etc.

University ensures optimal utilization of the common facilities by making it available to all Schools/Centres. A common Assembly Hall provides facilities for the conduct of conferences, seminars, symposia, workshops etc. The University Library is a central point of dissemination of knowledge and is utilized by the University community and the general public. This is in addition to the department level facilities like conference/ seminar halls, smart class rooms, department libraries, laboratories etc available in the various Schools. The decentralised administrative structure enables Schools/Centres concerned to address the issue of laboratory space, class-room facilities etc. The Faculty Council of the Schools/Centres effectively deals with space management issues in their respective Schools/Centres.

4.1.2 Does the University have a policy for the creation and enhancement of infrastructure in order to promote a good teaching learning environment? If yes, mention a few recent initiatives.

Yes. The University has a policy for the creation and enhancement of infrastructure in order to promote a good teaching/learning environment. The policy for infrastructure development is based on inputs received from Schools and Centres along with general requirements. The University utilizes plan



funds (non-recurring) for creation of assets and non-plan funds (recurring) for its maintenance. The E-payment and e-tender facilities are major initiatives in reducing the time delay in a transparent manner in inviting and processing tenders for various works related to the University as well as speedy delivery of financial transactions including salary disbursement.

Most of the plan and non-plan funds are obtained from the State Government and also through own sources. The built infrastructure of the University is as follows:

BUILT UP AREA AS ON 31st MAY, 2010

| Sl.No | Campus | Total Built up Area (till may 2016)(m ²) |
|-------|---|---|
| 1 | Priyadarsini Hills Main Campus | 82080 m ² |
| 2 | School of Social Sciences, Pullarikkunnu | 5372 m ² |
| 3 | School of Indian Legal Thought, Suryakaladi Hills | 3560 m ² |
| 4 | University College of Engineering, Thodupuzha | 4200 m ² |
| 5 | School of Medical Education (SME),Puthuppally | 5717 m ² |
| 6 | SME, Cheruvandoor | 1331 m ² |
| 7 | SME, Pathanamthitta | 2300 m ² |
| 8 | SME,Manimalakunnu | 3800 m ² |
| 9 | SME,Pala | 3600 m ² |
| 10 | SME,Gandhinagar | 8365 m ² |
| 11 | STAS Pullarikkunnu | 3100 m ² |
| 11 | STAS, Edapally | 2038 m ² |
| 12 | STAS, Pathanamthitta | 2600 m ² |
| | TOTAL | 1,28,063 m² |

NEWLY BUILT UP AREA FROM JUNE 2010 - MAY 2016

| Sl.No | Campus | New Construction Project After June 2010 | Total Built up Area(till may 2016)(m²) |
|--------------|---------------------|---|--|
| 1 | Main Campus | Library Extension | 500.4 m ² |
| 2 | Main Campus | Hostel for OBC Women | 1048 m ² |
| 3 | Main Campus | School of Behavioural Sciences | 2217 m ² |
| 4 | Main Campus | New Men's hostel | 1261 m ² |
| 5 | Main Campus | I.I.R.B.S | 3717 m ² |
| 6 | Main Campus | SMBS 1 st and 2 nd floors | 5449 m ² |
| 7 | Main Campus | Animal House, SOBS | 217 m ² |
| 8 | Main Campus | Creche | 187 m ² |
| 9 | Main Campus | School of Pedagogical Sciences- First Floor | 2060 m ² |
| 10 | Main Campus | Sports Hostel | 1800 m ² |
| 11 | Main Campus | Quarters for VC and PVC | 480 m ² |
| 12 | Main Campus | Computer Sciences-Extension | 554 m ² |
| 13 | Main Campus | Living Quarters for Staff (64 nos) | 6031.6 m ² |
| 14 | Main Campus | Seminar Hall (SPAP) | 322 m ² |
| 15 | Main Campus | Construction of Synthetic Acrylic Court | |
| 16 | SME, Puthuppally | SME, Puthuppally | 3346 m ² |
| 17 | SME, Nedumkandom | SME, Nedumkandom | 2602 m ² |
| 18 | UCTE, Thottakkad | UCTE, Thottakkad | 581 m ² |
| 19 | UCTE, Kudamaloor | UCTE, Kudamaloor | 636 m ² |
| 20 | UCTE, Thodupuzha | UCTE, Thodupuzha | 672 m ² |
| 21 | STAS, Pullarikkunnu | STAS, Pullarikkunnu | 3100 m ² |
| | | TOTAL | 36781 m² |



ONGOING CONSTRUCTION -BUILT UP AREA

| Sl.No | Campus | Ongoing Construction Project | Total Built up area (m ²) |
|-------|--------------------|--|---------------------------------------|
| 1 | Main Campus | Convergence Academia Complex | 9945 m ² |
| 2 | Main Campus | Pareeksha Bhavan Annexe | 900 m ² |
| 3 | Main Campus | New Ladies Hostel | 1261 m ² |
| 4 | SME, Manimalakunnu | SME, Manimalakunnu | 2814.5 m ² |
| 5 | Main Campus | Seminar Hall, Library and Reading Room(School of International Relations & Politics) | 535 m ² |
| 6 | Main Campus | (SOCS)Horizontal Extension | 516 m ² |
| 7 | Main Campus | Two additional floors over SJPB | 900 m ² |
| 8 | Main Campus | Research Studio for IUCSSM | 650.56M ² |
| 9 | Main Campus | School of Tourism Studies | |
| | | TOTAL | 17522.06 m² |

The University received a fund of Rs. 20 Crores from Rashtriya Uchathar Shiksha Abhiyan (RUSA) infrastructure fund in 2016 for the development of infrastructure, renovation and purchase of equipment, computers and books etc.

RUSA Infrastructure Fund

| Sl.No. | Item | Amount (Rs in Lakhs) |
|---|---|-------------------------|
| Proposal -I Infrastructure Development | | |
| 1. | Student amenity and Incubation Centre for student entrepreneurship, support and career development a. Construction of the Centre b. Procurement of equipment c. Establishment of e-library d. Facility for video conferencing with worldwide entrepreneurs e. Online Career development training | 350 |
| 2. | Wi-Fi enabled e-campus to enable online access to all statutory departments, inter university and inter school centres and affiliated colleges to facilitate online academic programmes a. Procurement of 10 TB server and other computer hardware and software. b. Establishment of Wi-Fi facility in the campus c. Establishment of e learning and support centre d. Establishment of a digital content management system | 250 |
| 3. | Campus beautification including ramp construction for the disabled a. Construction of ramps and disabled friendly toilets in all multi-storeyed buildings of the University b. Development of an eco-friendly landscape c. Development of a sacred grove including construction of a pond etc. d. Renovation of all basic amenities in the campus | 100 |
| Proposal -II Renovation | | |
| 4. | Repair and maintenance of various buildings of the University | 200 |
| 5. | Installation of Solar Power Plant System | 350 |
| 6. | Establishment of digitising facility in the University library a. Construction of Library annexe for digitising facility | 150 |



| | | |
|---|--|-------------|
| | b. Procurement of hardware and software for the digitisation c. Procurement of other furniture | |
| Proposal -III Equipment, Computers and Books | | |
| 7. | Purchasing of lab equipment for the four Science Departments | 260 |
| 8. | Setting up of Digital Content Creation Lab | 85 |
| 9. | Setting up of Music Research Centre at Inter University Centre For Studies in Science of Music(IUCSSM) | 115 |
| 10. | Purchasing of books for the statutory departments of the University | 16 |
| 11. | Purchase of computers for the ongoing e-governance programme and the CETEX | 124 |
| Total | | 2000 |

Expenditure for Infrastructure Development (Plan Expenditure)

| Year | Amount (Rs in lakhs) |
|-----------|-----------------------|
| 2011-2012 | 2384.68 |
| 2012-2013 | 2299.72 |
| 2013-2014 | 1500.43 |
| 2014-2015 | 2994.40 |
| 2015-2016 | 2182.96 |

Based on national rankings (*h*-index 66, as obtained from WEB of Sciences, the highest index achieved by any University in Kerala), the University was able to receive 9 crore rupees under the PURSE programme of DST in 2016 demonstrating the higher academic standing of the University in the nation.

The University has provided video conferencing/smart classrooms in various Schools with the purpose of promoting interactive learning among the students. The University has equipped the smart classrooms with state of the art infrastructure like smart boards, LCD projectors, multimedia devices etc.

In pursuance of the University's quest to groom entrepreneurial skills among staff and students through student start-ups, the Government of Kerala has sanctioned Rs.1 crore to create a Business Innovation and Incubation Centre (BIIC), which is the first of its kind in the state. The main aim of BIIC is to kindle the entrepreneurial spirit of youth and provide customized support to early stage business ideas with high growth potential. BIIC is aimed to become a hub for innovation activities with the development of ideas into innovative applications through patenting process that can benefit the society. Funds so procured are meant to enhance teaching/learning environment.

The University has also started construction of a 9-floor Convergence Academia Complex, where the emerging interdisciplinary centres of the University will be housed with state of the art laboratory and infrastructure facilities. An amount of Rs. 28 crores is allotted for its construction and almost half of the allotted amount is utilized and is nearing completion.

University also received a central funding of Rs. 10 crores for the setting up of an Inter University -Instrumentation Centre (IUIIC) which houses sophisticated instrumentation facilities for characterizing materials. This facility is being effectively utilized by academic institutes and industries.

4.1.3 How does the University create conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

Continued funding through plan and non-plan grants to the various Schools/Centers is done for augmenting research facilities. Over the years, the University has established common computing facilities, high performance computing, establishment of work stations and DST funded Sophisticated Advanced Instrumentation Facility (SAIF), state-of-the-art-facility for microscopy (optical, SEM, TEM, and AFM), X-Ray and spectroscopy (NMR) techniques. For the improvement of laboratory infrastructure with high-end equipment, the university has received a grant of Rs. 9 crores from DST PURSE, Rs.2 crores from DST-SAIF and Rs.1 crore from State Government for incubation/innovation facilities. In addition to the above, research laboratories are established and further strengthened by utilizing the funds received through a number of externally funded projects (which has been detailed in Criterion III). All Schools in the science stream are equipped with state-of-the-art instruments in their research laboratories as shown below.



List of major scientific instruments (above 5 Lakhs) Procured during 2010-16

| Schools/Departments/Centers | Sl.no. | Name of Instrument | Cost in lakhs |
|--|--------|---|---------------|
| School of Biosciences | 1. | State-of-the-art Labs for Teaching including Minor equipment's for Post graduate laboratories | 16.00 |
| | 2. | Installation of Online UPS and Stabilizers in animal cell culture and Instrumentation room | 8.00 |
| | 3. | Inverted Microscope with Phase contrast and Fluorescence attachments | 14.00 |
| | 4. | Langendroff perfusion system with accessories | 15.00 |
| | 5. | HPTLC (DST-PURSE) | 31.00 |
| | 6. | HPLC Preparative | 22.00 |
| | 7. | UV-VIS Spectrophotometer Model UV-2600 ISR -2600 plus | 15.00 |
| | 8. | FT-IR with ATR | 15.00 |
| | 9. | -80° C Freezer | 6.00 |
| | 10. | Elisa Reader with washer | 13.00 |
| | 11. | Tali Image based Cytometer | 6.50 |
| | 12. | Dynamic Contact angle meter | 11.50 |
| | 13. | PCR (RT) | 12.00 |
| | 14. | HPLC with MS Detector | 40.00 |
| International & Interuniversity Centre for Nano science & Nano Technology | 1. | High Resolution Transmission Electron Microscope (HR-TEM) | 500.00 |
| | 2. | Atomic Force Microscope | 50.00 |
| | 3. | Autoclave | 5.00 |
| | 4. | Brabender | 60.00 |
| | 5. | Compression Moulder | 10.00 |
| | 6. | Dielectric Measurement System | 30.00 |
| | 7. | Differential Scanning Calorimeter | 30.00 |
| | 8. | Dynamic Contact Angle Meter | 20.00 |
| | 9. | Electrospinning Unit | 10.00 |
| | 10. | Lyophilizer | 5.00 |
| | 11. | ME Coupling Set up | 5.00 |

| | | | |
|--|-----|---|--------|
| | 12. | Nd:YAG Laser | 20.00 |
| | 13. | Pulsed Laser Deposition | 15.00 |
| | 14. | Z-Scan | 5.00 |
| | 15. | Ultrasonicators | 5.00 |
| | 16. | UV-Visible-NIR Spectroscope | 50.00 |
| | 17. | Vector Network Analyzer | 20.00 |
| | 18. | DLS | 30.00 |
| | 19. | Autoclave | 5.00 |
| Institute of Intensive Research in Basic Sciences | 1. | 400MHz BRUKER NMR | 155.00 |
| | 2. | Nitrogen Gas Generator | 10.00 |
| | 3. | Semi preparative HPLC with ELS Detector | 30.00 |
| | 4. | Atomic Absorption Spectrophotometer | 10.00 |
| | 5. | FT - IR | 15.00 |
| | 6. | Microwave Digester | 5.00 |
| | 7. | UV-Visible Spectrophotometer | 8.00 |
| | 8. | High Speed Refrigerated Centrifuge | 5.00 |
| | 9. | Lyophilizer | 5.00 |
| School of Chemical Sciences | 1. | BET Surface Area Analyzer | 31.00 |
| | 2. | Differential Scanning Calorimetry | 45.00 |
| | 3. | TG-GCMS | 65.00 |
| | 4. | UV-vis. Spectrophotometer | 15.00 |
| | 5. | Optical Microscope | 15.00 |
| | 6. | Raman Spectrophotometer | 41.00 |
| | 7. | Electrochemical Work Station | 8.00 |
| | 8. | FT-IR | 23.00 |
| | 9. | Rheometer | 30.00 |
| | 10. | SEM/ EDAX | 40.00 |
| | 11. | UTM | 10.00 |
| | 12. | TORQUE RHEOMETER | 53.00 |
| | 13. | Permeability meter | 5.00 |
| | 14. | Microwave Reactor | 11.00 |
| | 15. | TMA | 18.00 |



| | | | |
|--|-----|---------------------------------------|-------|
| | 16. | ELSD | 5.98 |
| | 17. | Evaporative Light Scattering detector | 7.00 |
| | 18. | Powder XRD | 55.00 |
| | 19. | Atomic force Microscope | 50.00 |
| | 20. | Gas permeability tester | 15.00 |
| | 21. | Porosity Meter | 30.00 |
| | 22. | CHN Analyzer | 20.00 |
| | 23. | Electrospinning Unit | 10.00 |
| | 24. | Microwave irradiator | 10.00 |
| | 25. | Thermo Mechanical Analyzer | 15.00 |
| | 26. | Photochemical Reactor | 10.00 |

| | | | |
|---|-----|---|--------|
| School of Environmental Sciences | 1. | Remote sensing and GIS facility with all latest computing facility and software | 25.00 |
| | 2. | LCMS (DST-PURSE) | 163.00 |
| | 3. | LC QTOF (DST-PURSE) | |
| | 4. | GC MS – TCD | 38.00 |
| | 5. | Gas Chromatograph | 15.00 |
| | 6. | ICP-MS | 80.00 |
| | 7. | Total and methyl mercury analyzer – CVAFS | 20.00 |
| | 8. | Microwave digester | 8.00 |
| | 9. | Trace metal analyzer | 5.00 |
| | 10. | Ion chromatograph | 12.00 |
| | 11. | Ultra-pure water system | 5.5 |
| | 12. | Direct Mercury Analyzer | 16.00 |
| | 13. | Class 100 clean room facility | 10.00 |
| | 14. | Microwave Digester (Anton Par) | 9.4 |
| | 15. | Freeze dryer | 6.39 |
| | 16. | GC-ECD-FID-TCD | 25.00 |
| | 17. | Accelerated Solvent Extractor | 15.72 |
| | 18. | Petrological Microscope | 5.00 |
| | 19. | Spectro radiometer | 5.00 |

| | | | |
|--|-----|---|--------------------------|
| | 20 | Confocal Micro Raman – AFM (DST SAIF) | 145.0 |
| | 21 | Fluorescence Spectrometer with Life Detector (DST SAIF) | 54.00 |
| School of Pure and Applied Physics | 1. | Powder X-ray Diffractometer | 48.00 |
| | 2. | LCR meter | 15.00 |
| | 3. | Micro hardness Tester | 6.00 |
| | 4. | Spectrophotometer | 10.00 |
| | 5. | Spectrofluorophotometer | |
| | 6. | Advanced fluorescence Microscope | 10.00 |
| | 7. | Spin Coater | 5 .00 |
| | 8. | Single Crystal X-RAY Diffractometer (DST-PURSE) | 150.00 |
| | 9. | Spectroscopic Ellipsometer (DST-PURSE) | 42.00 |
| | 10. | Time resolved FluoromaxFluorimeter | 32.00 |
| | 11. | Differential Scanning Calorimeter | 33.00 |
| | 12. | UV VIS N1R Spectrophotometer | 21.00 |
| | 13. | UV vis spectrophotometer | 5.00 |
| | 14. | High Tem Programmable furnace | 5.00 |
| | 15. | TGA DTA (ThermogravimetricAnalyzer) | 20.00 |
| | 16. | AC DC conductivity measurement set up | 15 .00 |
| | 17. | Computer server and Networking | 15.00 |
| | 18. | High Computing Facility | 5.00 |
| Inter University Instrumentation Center | 1. | HPLC | 15.35 |
| | 2. | FTIR | 12.15 |
| | 3. | Trinocular Microscope | 12.80 |
| | 4. | Layer by Layer Dipping Device | 13.15 |
| | 5. | TGA/DTA/DSC | 36.17 |
| | 6. | iCAP QC Quadruple ICP-Mass Spectrometer (DST-PURSE) | 67.74 |
| | 7. | UV- VIS Spectrometer | 13.96 |
| Total value of major scientific instruments (above 5 Lakhs) procured during 2010-16 | | | Rs. 3232.31 lakhs |



Computing, Library and Allied Facilities:

All Schools have independent library and other facilities. Most of the Schools have well maintained computer labs. Some schools have fully furnished language labs. In short, the university has ensured the following facilities to enhance the physical ambience which include:

- Well-furnished faculty room for each staff member with personal computers having internet connectivity
- Wi-Fi connectivity in all the Schools
- Research laboratories in each science department
- Computer lab facilities in all Schools
- Subject specific libraries in Schools
- Quarters for teaching staff in the campus itself
- Gymnasium, indoor and outdoor stadiums in the campus
- University bus services
- Post office
- Bank and ATMs in the campus
- Co-operative stores
- Cafeteria and snack counters
- University Health Centre
- Crèche
- Internet cafe and DTP workstations

4.1.4 Has the University provided all departments with facilities like office room, common room and separate rest rooms for women students ‘and staff’?

Yes. All Schools/Centres of the university have separate office room, common room and separate rest rooms for women staff and students. Women friendly toilets with additional facilities like sanitary napkin disposer are provided to promote hygiene and sanitation.

4.1.5 How does the University ensure that the infrastructure facilities are disabled-friendly?

The university has conducted a comprehensive access audit to evaluate the state of accessibility in the campus. All the Schools and offices in the University are connected with well-maintained roads. Ramps are provided to help the differently-abled and the wheel chair bound people to access various facilities. The university has availed Rs. 1 crore under the RUSA scheme for

the construction of ramps and disabled-friendly toilets in all buildings of the University. The classes for differently-abled students are arranged in the ground floor to the maximum extent possible. The university has decided to provide wheel chairs in all the buildings. University has also initiated steps to procure an eco-friendly battery operated vehicle with wheel chair access along with preferential parking facilities to ensure barrier free transportation in the campus. Electronic Lab for Visually Challenged has been set up in the library during October 2015 with an objective to provide reading facilities to blind and low vision library users.

As per U.O No. 4308/P&D -1/3/2016/Admn dated 01/08/2016, the University has issued an order formulating a comprehensive policy for addressing disability issues. The main components of the order are as follows:

- To engage the service of a barrier free design expert and architect to audit the disabled-friendliness of all physical segments of the University.
- To ensure disabled-friendly features like ramp (of a gradient not greater than 18-20 degrees), lifts (wide enough for wheel chair, and with Braille control switch panel and audition), special assistive fixtures and fittings (like handrails and grab bars alongside the side walk of steps and staircases), and disabled - friendly washrooms in all future construction projects.
- To allow a grace period of three months for M.Phil and six months for Ph.D. students who are physically challenged in the submission of dissertations.
- To ensure at least one terminal in the computer workstation (of all departments, centres) with special assistive technologies, preferably open source, for physically challenged students.
- To ensure the websites of Mahatma Gandhi University and its statutory teaching departments and the affiliating colleges to incorporate features friendly to the visually challenged (including colour contrast, variable font size and audition).
- To create a special fund to handle all income and expenditure relating to addressing disability issues of Mahatma Gandhi University including constituent colleges. Besides central and state funding and UGC special assistance, funds are also received from MP/MLA development plan assistance for constituencies, and rules permitting, from the private sector companies (who may fulfil it as part of Corporate Social Responsibility).
- To highlight the aspect of disabled - friendliness in all notifications for admission and appointment released by the University statement "MGU is proactive to the needs of the physically challenged" is inserted.



4.1.6 How does the University cater to the requirements of residential students? Give details of:

*** Capacity of the hostels and occupancy (to be given separately for men and women)**

| Name of Hostel | Capacity | Established During the Assessment Period |
|----------------------------|----------|--|
| Pallana Men's Hostel | 117 | - |
| Pallana Annex Men's Hostel | 81 | 2014-15 |
| Syrandhri Women's Hostel | 84 | - |
| Nila Women's Hostel | 71 | 2012-13 |
| Kabani Women's Hostel | 71 | 2013-14 |

All the University hostels are fully occupied.

*** Recreational facilities in hostel/s like gymnasium, yoga centre, etc.**

Yes. Gymnasium and facilities for yoga are provided separately for Men and Women on the campus itself. The working hours of the centres are 7 am to 9 am and 4 pm to 7 pm on all days. Since the hostels are nearby, students can make use of these with ease. The campus has a good playground for outdoor games apart from the facilities for indoor games like chess and carom board.

*** Broadband connectivity / Wi-Fi facility in hostels.**

Free Wi-Fi is available in the Campus and Hostels. The University has finished installing high speed wireless networking in the campus. These facilities are meant for the upcoming e-governance programme being planned in the University.

4.1.7 Does the University offer medical facilities for its students and teaching and non-teaching staff living on campus?

Yes. There is a full-fledged health centre functioning in the university. Two doctors are working on shift basis. Necessary medicines, health laboratory services etc. are also provided free of cost. The University Health Centre imparts health care services through outpatient consultation, laboratory diagnosis and dispensing of prescribed medicines to students and employees. In addition to this, in the year 2013, Mahatma Gandhi University issued health cards after proper medical check-up to its employees. The budget allocation for the purchase of medicines is being enhanced steadily every financial year as part of the social commitment of University in the health care of its employees.

School of Behavioural Sciences has a counselling centre where the services of a qualified clinical psychologist is available from 9.00am to 5.00pm.

4.1.8 What special facilities are available on campus to promote students 'interest in sports and cultural events/activities'?

The Department of Physical Education has been providing various facilities to the students of the University with the intent of promoting interest among students in sports and games. For instance:

- i) The campus has a full-fledged basketball court, volley ball court, synthetic tennis court and a badminton court along with a big football ground, which are open to all students of the campus.
- ii) UGC has sanctioned a 50 m Olympic standard swimming pool at a budget outlay of Rs.2.25crore.
- iii) The physical education department also has a fitness centre to cater to the needs of the students of the campus.
- iv) The construction of a 100-bedded modern sports hostel was completed recently.

Apart from this, University also encourages the students with sports interest by providing incentives in terms of providing grace marks and scholarships.

The University has instituted Sports Scholarship for 150 meritorious Sportspersons annually to recognise the achievement of the Sportsmen/women of the university. This acted as a motivating factor and the university has been able to produce ten Olympians, fifteen Asian games athletes' and more than two hundred internationals, some of them Arjuna awardees, since its inception. The university has also instituted Sports Merit cash Award to the winners of All India Inter University Championships annually. The Sports Merit Cash Award was instituted by the School to encourage the University teams to perform well at Inter University Competitions. An amount of Rs 10,000/-, Rs 7,500/- and Rs 5,000/- respectively is given to athletes for winning gold, silver and bronze medals.

Recently university gave a reception to two of its students who participated in 2016 Olympics. Also, university celebrated its foundation day by organising a mass race with the participation of the university community.

University department students union conducts arts and cultural festival every year by conducting programs and competitions for the students of the campus as a means of promoting and rewarding the cultural talents of the student community. This is besides the Onam, Christmas and New Year celebrations being organised by the individual schools and centres which is aimed at encouraging the cultural talents of the student community.



4.2 Library as a Learning Resource

Mahatma Gandhi University Library and Information System consists of University Library, libraries of the Schools and 4 study centre Libraries. The University Library was established in 1989. The University Library which is situated in the main campus occupies purpose-built accommodation, and provides a variety of facilities and has a user-friendly environment. These include individual work spaces, room for group study and teaching, audio-visual access and online information retrieval system. The building of the University Library is 2000 sq.m in area consisting of the cellar, the ground floor and the first floor.

Academic as well as public users are given the facility to use the library. Special category membership is provided to journalists. The library is providing service from 8 am to 8 pm in three shift timings for its staff. Reading space is provided in all the three floors housing the various sections of the library. The library provides reading facility to the visually impaired users too. For this, an electronic lab custom made for visually challenged users has been set up during 2016.

The library has a collection of 59,000 books, 232 journals, 2,135 Ph.D. theses and has access to 15000+ e-journals under E-Shodh Sindhu. The activities of the Library are comprehensively automated using open source library management software KOHA.

The library is a member of the INFLIBNET Centre, Ahmedabad as well as DELNET (Developing Library Network). As a member of these networks, the library provides access to the resources of other major libraries in the country. In addition to the access to UGC INFONET consortium, it has access to major online databases, such as EBSCO, ProQuest dissertations and theses, Oxford Scholarship Online, IEEE All Society Periodicals Package etc. Mahatma Gandhi University had won the State IT Award during the year 2009 in the e-learning category for its university online theses digital library. The various department libraries have a good collection of subject specific books and journals.

4.2.1 Does the library have an Advisory Committee? Specify the composition of the Committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

University Library has a Library Advisory Committee. It is an 18 member committee with Vice-Chancellor as Chairman and University Librarian as Convener. The other members include Pro-Vice Chancellor, Registrar, Faculty members of Science, Social Science, Arts & Humanities departments, Principals of various Colleges, Syndicate Members and Chairman of Department Students Union. It is on the recommendations of the committee

that various innovative services are introduced in the library for the student/library user's community.

4.2.2 Provide details of the following:

i. Total area of the library (in Sq.Mts.) - 2000 sq.m

ii. Total seating capacity - 150 seats

iii. Working hours:

- 8 am to 8 pm on all working days.
- 10 am to 2 pm on Second Saturdays and Sundays.
- The library remains closed on public holidays.
- Library functions on an average of 345 days in a year.
- The libraries of teaching departments are open during working hours of the Schools.

iv. Layout of the Library

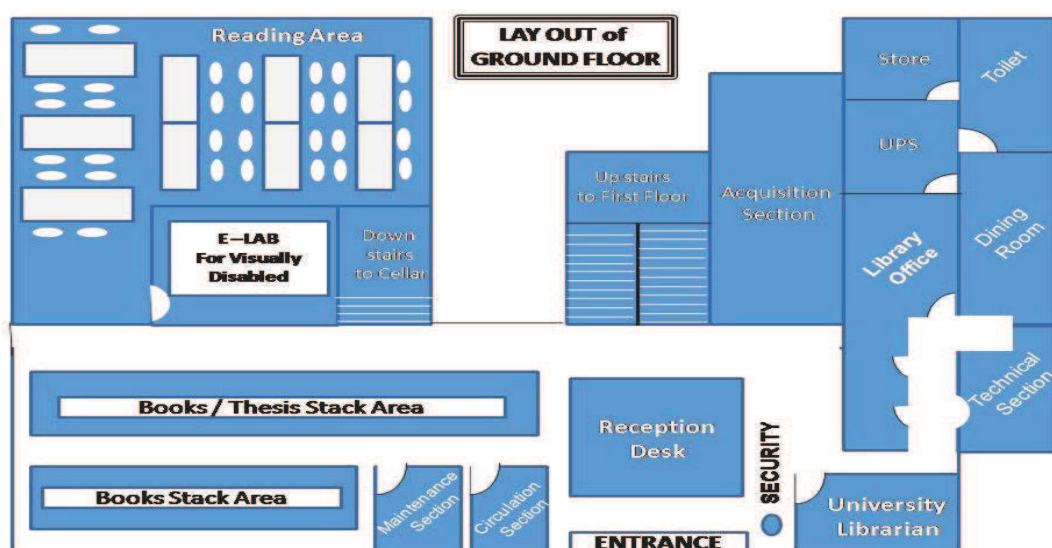
(Individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources):

150 seats are provided to the readers to comfortably use the resources of the library. The University Library is divided into 8 sections and their activities are given below:

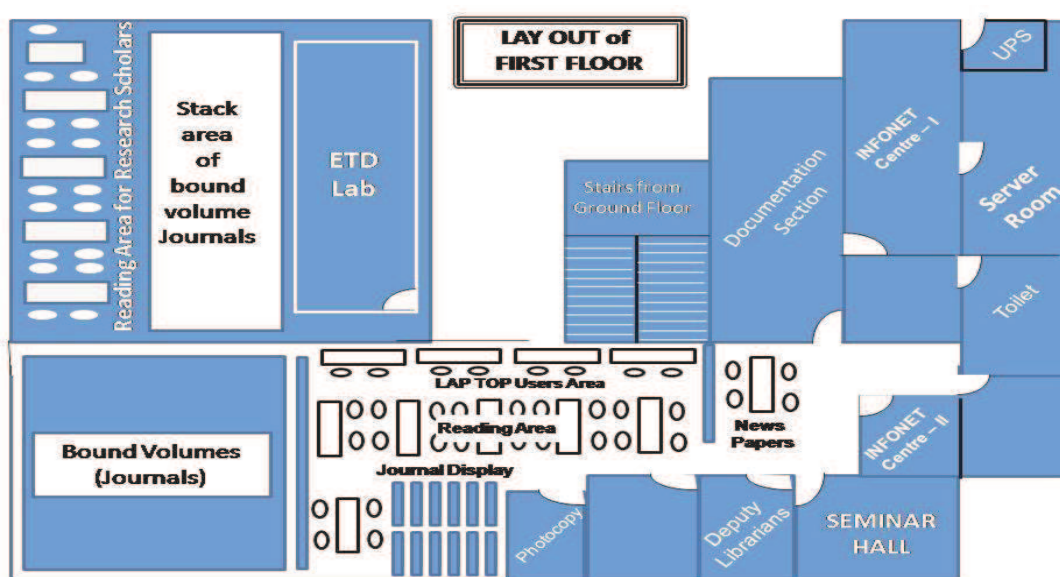
- Acquisition Section – purchase of printed and electronic books, accessioning, payment processing, physical processing including RFID tag creation.
- Technical Section – physical and technical processing of items (books, theses, audio visual materials etc.) and preparation of list of new additions.
- Maintenance Section – maintaining books and theses in stacks, reference service, display of books on special occasions and stock verification.
- Circulation Section – membership of library users, issue/return/renewal of books.
- Periodicals Section – subscription & renewal of journals including online journal databases, online bibliographic databases, archives of online journals, newspapers, popular magazines etc., and binding of back volumes of journals.
- Documentation Section - online information services, document delivery service & inter-library loan through DELNET, reprographic services, maintenance of library management package KOHA and

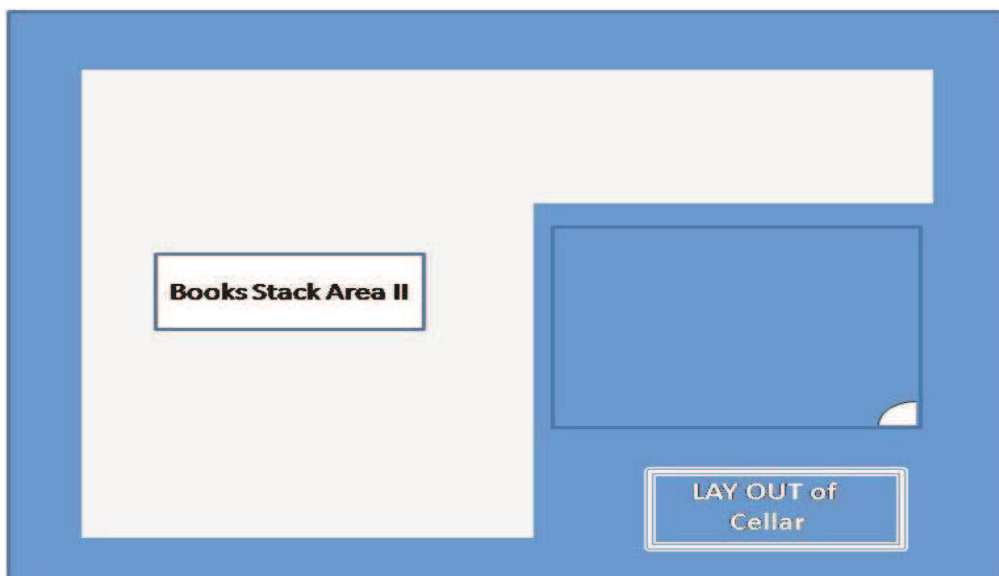
design, development and maintenance of library web portal (www.library.mgu.ac.in).

- Union Catalogue Section – accessioning of Ph.D. theses/ M.Phil dissertations, digitization and archiving of Ph.D. theses, uploading Ph.D. theses to Shodh Ganga (online repository of the INFLIBNET Centre) and MGU online theses library and archiving of M.Phil dissertations.
- Administration Section – establishment work.



Lay out of University Library





Clear and prominent display of floor plan; adequate sign boards; fire alarm, access to differently abled users and mode of access to collection:

Adequate sign boards have been given to identify the layout of the library. The stack room is provided with self-guiding instructions with which any reader can locate the books of his/her choice in a hassle-free way. Classification of books and its coding has been done with the help of software/computerisation of library.

Facilities for Visually and Physically Challenged:

Electronic Lab for visually challenged persons has been set up in the library with an objective to provide reading facilities to blind and low vision library users. The lab has the following equipment and software for catering to the specific requirements of the visually challenged users. The library undertakes audio recording of books as per request from users who are visually challenged.

A reading library for blind and low vision:

- a. JAWS Talking software for the blind
- b. MAGic screen magnification software without speech
- c. MAGic large print keyboard
- d. ZoomEx instant reader
- e. Ruby hand held video magnifier
- f. Flash desk top print magnifier

Talking book library:

Angel pro talking Daisy Player-E book for the blind



Braille Book Library:

- a. Index Basic V-4 Braille Printer
- b. Duxbury Braille Translation Software

4.2.3 Give details of the library holdings:

| Category | No. |
|---|------------|
| Books | 59000 |
| Journals | 232 |
| Bound Journals | 7500 |
| Ph.D Theses | 2135 |
| E-Journals (in UGC-Infonet, renamed as E-ShodhSindhu) | 15000 |
| Online databases (in UGC Infonet) | 11 |
| Online Archives subscribed | 185 Titles |
| Online databases subscribed | 4 |
| E-books | 7338 |
| DVDs: Educational Videos | 293 |

- a) Print (books, back volumes and theses)

| Sl. No. | Name of School/Centre | Total No. of books | Books added during the last three years |
|---------|--|--------------------|---|
| 1. | University Library | 59000 | 4548 |
| 2. | School of Behavioural Sciences | 3347 | 200 |
| 3. | School of Bio Sciences | 2540 | 80 |
| 4. | School of Chemical Sciences | 4100 | 190 |
| 5. | School of Computer Sciences | 4130 | 100 |
| 6. | School of Environmental Sciences | 5607 | 66 |
| 7. | School of Gandhian Thought and Development Studies | 8695 | 200 |
| 8. | School of Indian Legal Thought | 10518 | 650 |
| 9. | School of International Relations and Politics | 7732 | 475 |
| 10. | School of Letters | 18233 | 1707 |
| 11. | School of Management and Business Studies | 7549 | 500 |
| 12. | School of Physical Education and Sports Sciences | 790 | 24 |
| 13. | School of Pure and Applied Physics | 4785 | 457 |
| 14. | School of Pedagogical Sciences | 6109 | 91 |

| | | | |
|--------------|--|---------------|--------------|
| 15. | School of Social Sciences | 12398 | 174 |
| 16. | School of Tourism Studies | 1464 | 202 |
| 17. | International and Inter University Centre for Nanoscience and Nanotechnology | 268 | 150 |
| 18. | Advanced Centre for Environmental and Sustainable Development | 393 | 103 |
| 19. | Inter University Centre for Disability Studies | 250 | 123 |
| 20. | Inter University -Instrumentation Centre | 70 | - |
| 21. | Inter University Centre for Social Science Research and Extension | 1474 | - |
| 22. | Advanced Molecular Materials Research Centre | 25 | - |
| 23. | Centre for English Language and Communication Skills | 1209 | - |
| 24. | Institute for Intensive Research in Basic Sciences | 535 | 300 |
| 25. | KN Raj Centre for Planning and Centre | 1146 | 513 |
| Total | | 162367 | 10853 |

- b) Average number of books added during the last three years: 10853
- c) Non Print (Microfiche, AV): Nil
- d) Electronic e-books : 7338
e-Journals :15,000
Databases: 16
- e) Special Collections (text books, reference books, standards, patents etc):
Reference books: 6390
- f) Book Banks - Subject specific book banks are maintained in some department libraries.
- g) Question Banks-question papers of a few early years are available. Question banks pertaining to subjects are being maintained in the respective department libraries.

4.2.4 What tools does the library deploy to provide access to the collection?

- Provides information services on demand to the users.
- Union catalogue-conventional and computerized (OPAC).



- Library has developed special tools such as Journal Article index (Index of journal articles which cannot be traced through internet but available as hard copy in the Periodicals Section of the Library).
- Database on Kerala Studies for the promotion of information services.
- These special databases are searchable on open access mode in the library website.
- These services are supplemented with full text document delivery.
- University Library has created a website hosted in the domain of IT Mission for showcasing the important activities and events of the library. Various online journal archives/e-books purchased on perpetual access, e-resources including e-journals, e-books and databases purchased/subscribed and INFONET e-Journal consortium can be made available for access through library's website www.library.mgu.ac.in

4.2.5 To what extent is ICT deployed in the Library? Give details with regard to

Library Automation:

The University Library has sufficient ICT infrastructure as detailed below:

| Sl. No. | Item | Floor area / Quantity |
|---------|--|-----------------------|
| 1 | Building | 2000 sq. m |
| 2 | IT Infrastructure- Desktop Computer System | 49 |
| | Server Class System | 3 |
| | Heavy Duty Printers/ Copiers | 4 |
| | Desktop Printers | 7 |
| | Scanners | 3 |
| | LCD Projector | 1 |
| | Wi-Fi Access Terminals | 3 |
| 3 | Special Equipment for Visually Challenged: An Electronic Lab for Visually Challenged has been set up with following hardware(s) & Software(s) Computers | 3 |
| | Other Equipment | 7 |
| | Software(s) | 3 |

Total number of computers for general access: The Library provides access to the electronic resources by providing 49 computer terminals.

Total numbers of printers for general access: Seven printers.

Internet band width speed: 1 GB

Institutional Repository:

The Ph.D theses awarded by the University are digitized and made available over the Internet on open access mode. MGU online theses in the library can be accessed at www.mgutheses.in. The project won the e-Governance award of the Government of Kerala in 2010. Digital repository of Ph.D theses of the university was launched by the former President of India H.E. Dr. A.P.J. Abdul Kalam on 8th November, 2008. The University continued with this pioneering effort in the country and till date, a total number of 2135 Ph.D. theses have been uploaded.

Participation in resource sharing networks/consortia: Yes, INFLIBNET and DELNET.

4.2.6 Provide details (per month) with regard to

- Average number of walk-ins : 2830 per month
- Average number of books issued/returned: 830 transactions per month
- Ratio of library books to students enrolled : 108:1 approximately
- Average number of books added during the last four years: 2460
- Average number of login to e-resources : 1500 per month
- Average number of e-resources downloaded/printed : 17050 per month
- Number of IT (Information Technology) literacy trainings organized: 1.66 per month

4.2.7 Give details of Specialised Services provided by the library with regard to

Manuscript: Nil

Reference

- Provides information services on demand from users.
- Library has developed special tools such as Journal Article index
- Database on Kerala Studies for the promotion of Information services.
- Above special databases are searchable on open access mode in the library website.
- These services are supplemented with full text document delivery.
- The access to the facility has been extended to remote departments and Study centres of the University.
- Literature search service to research scholars.



- **Reprography/Scanning**

Two heavy duty printers and three scanners are used for reprography/scanning. Reprographic services are provided to the students by way of photocopies and digital copying on CDs and DVDs.

- **Inter Library loan Service:**

The Library collects and issues journal articles and books on inter library loan which are not available in its collection to the users based on demand, mainly from DELNET and other resourceful R&D institutions at national level.

- **Information Deployment and Notification:** Email notifications for book transactions.
- **Online Public Access Catalogue (OPAC)** Web OPAC of the university is available over the internet through which the collection of university library and some department libraries are searchable. This Web OPAC is created using library management software KOHA.

URL of the web OPAC is <http://mgucat.mgu.ac.in>

- **Online Book suggestions facility**

All library users can suggest books on their subject area concerned via online through **KOHA-OPAC** for purchase in University Library, subject to the approval of Book purchase committee

- **Internet access:**

Facility is available in the library through campus area network having a bandwidth of 1 GB under National Knowledge Network (NKN) for students and teachers to access full texts of articles in the INFONET service of the UGC, e-books and other digital resources available.

- **Downloads**

| Sl. No. | Name of Journal Database | Usage by Mahatma Gandhi University (No. of articles downloaded) | | | |
|---------|-------------------------------|--|-----------|-----------|-----------|
| | | Year 2012 | Year 2013 | Year 2014 | Year 2015 |
| 1 | Science Direct | 79476 | 75376 | 87957 | 90196 |
| 2 | JSTOR | 21250 | 28833 | 27809 | 20641 |
| 3 | American Chemical Society | 18662 | 18437 | 26728 | 24511 |
| 4 | Wiley-Blackwell | 13886 | 1313 | 19383 | 17361 |
| 5 | Springer Link | 10788 | 18064 | 17230 | 20216 |
| 6 | Royal Society of Chemistry | 5670 | 8517 | 9946 | 9980 |
| 7 | Taylor and Francis | 4771 | 6168 | 6822 | 5659 |
| 8 | Institute of Physics | 2990 | 3014 | 3480 | 2753 |
| 9 | American Institute of Physics | 1696 | 1749 | 3062 | 3563 |

| | | | | | |
|--|----------------------------|---------------|---------------|---------------|---------------|
| 10 | Nature | 1680 | 1182 | 3000 | 3854 |
| 11 | APS | 1598 | 953 | 2958 | 884 |
| 12 | Cambridge University Press | 911 | 1012 | 1375 | 874 |
| 13 | Project Muse | 814 | 1197 | 972 | 809 |
| 14 | Annual Reviews | 513 | 562 | 909 | 527 |
| 15 | Portland Press | 187 | 135 | 661 | 0 |
| 16 | Oxford University Press | 152 | 229 | 8 | 2836 |
| 17 | Project Euclid | 4 | 2 | 4 | 1 |
| Total | | 165048 | 166743 | 212304 | 204665 |
| RANK of M G University out of 199 universities under the Consortium | | NA | 29 | 27 | 29 |

- **Print outs:** Users are encouraged to download full text articles of their interest and permitted to take printouts.
- **Reading List/Bibliography Compilation:** The library brings out a bi-monthly publication showing list of new additions to make the users aware of the latest books in different subjects which are available in the library along with their position on the shelf. The list is sent to all teaching departments, study centres of the university and libraries of other universities. It is also sent to five patrons each with the most checkouts in different categories (research scholars, the faculty, teachers of affiliated teachers, P G students and non-teaching staff of the University) by e-mail. A digital version of this publication is made available in the library website too.
- **In-house/remote access to e-resources:** The Local Area Network (LAN) in the campus provides remote access to the digital resources available with the INFONET programme of the INFLIBNET. All the teaching departments are covered in the LAN. The teaching departments are interconnected through optical cables. Hence INFONET can be accessed at the university teaching departments also. Wi-Fi facility is also provided for users of mobile phones and laptops. The Schools/Centres located outside the campus can also access the e-resources of the library through virtual private network/IP authentication.
- **User Orientation**

Library orientation programmes and library familiarization tours are conducted in the library for the benefit of new users.



- **Assistance in searching Databases**

The Librarian is providing sufficient orientation and support to the student/research scholars to search and collect relevant data. Awareness regarding appropriate database, key terms for creating search statements etc. are given for the needy.

- **INFLIBNET/IUC Facilities**

UGC INFONET centre is available within the library for the users.

School of Computer Sciences library has subscribed to 'All Society Periodicals Package' with 169 highly research oriented e-journals published by IEEE. This provides the users with unlimited in-house access by the students and researchers of the school and remote access by those from other schools using multiple logins over the campus based on IP

4.2.8 Details of the annual library budget and the amount spent for purchasing new books and journals

• Statement of Expenditure of Books 2011-16

| Sl. No. | Type of Document | Year 2011-2012 | | | Year 2012-2013 | | | Year 2013-2014 | | | Year 2014-2015 | | | Year 2015-2016 | | |
|---------|----------------------|--------------------------|--------------|---|--------------------------|--------------|----------------------------|--------------------------|--------------|-----------------|---------------------------|--------------|-------------------------------|--------------------------|--------------|-----------------|
| 1 | Books | No. of Document Procured | Amount Spent | Amount allotted | No. of Document procured | Amount Spent | Amount allotted | No. of Document procured | Amount Spent | Amount allotted | No. of Document procured | Amount Spent | Amount allotted | No. of Document procured | Amount Spent | Amount allotted |
| 2 | E-Books (English) | 5129 | 56,88,308 | 1,79,000,00 (including State Fund of 1,45,000,00) | 1033 | 75,96,267 | 79,000,00 | 1794 | 17,66,923 | 40,000,00 | 1632 | 47,88,525 | 50,000,00 | 1131 | 27,26,559 | 50,000,00 |
| 3 | Video lectures (DVD) | 209 | 1,39,990 | 2,00,000 | --- | 3,49,254 | UGC XI Plan Fund for 2011- | --- | ---- | ----- | 4200+ (Malayalam e-books) | 5,00,000 | 500000.00 (UGC XII Plan fund) | | | |

Journals, Online Journal Archives and Online Databases 2011-16

| Sl. No. | Type of Document | Year 2011-2012 | | | Year 2012-2013 | | | Year 2013-2014 | | | Year 2014-2015 | | | Year 2015-2016 | | |
|---------|-------------------------|----------------|-------------------------|--------------|----------------|-----------------|--------------|-------------------|-----------------|--------------|----------------|-----------------|--------------|--------------------------|--------------|-----------------|
| | | No. Subscribed | Amount Allotted | Amount spent | No. subscribed | Amount Allotted | Amount spent | No. Subscribed | Amount Allotted | Amount spent | No. subscribed | Amount Allotted | Amount spent | No. of Document procured | Amount Spent | Amount allotted |
| 1 | Print Journals | 270 | 44,00,000.00 | 4197725 | 285 | 44,500,00.00 | 4399198 | Fund Not Allotted | | | 256 | 64,00,000.00 | 4847580.00 | 232 | 8000000 | 45,42,754.00 |
| 2 | Online Journal Archives | 79 | 70,00,000.00 (UGC Fund) | 5194363 | - | - | - | | | | 107 | 15,00,000 | 1362026.00 | 134 | - | 15,67,350.00 |
| 3 | Online Databases | 2 | 10,00,000.00 | 712575 | 3 | | 1277195 | | | | 4 | | 1433035.00 | 6 | | 1809272.00 |

4.2.9 What initiatives has the University taken to make the library a 'happening place' on campus?

Online reading facility is provided in the Infonet Lab setup in two rooms. Besides, Wi-Fi facility is provided for users with laptop.

Electronic Theses and Dissertations (ETD) Lab: A Laboratory for electronic theses and dissertations was setup in the Library with the financial assistance provided by the INFLIBNET Centre. Digitization and archiving of theses are carried out at this centre.

Electronic Lab for Visually Challenged: Electronic Lab for visually challenged has been set up in the library with the objective of providing reading facilities to blind and low vision library users. The lab has equipment and software for catering to the specific requirements of the visually challenged persons. As part of providing service, the library started audio recording of books as per request from users who are sight denied.

Materials for career and personality development: The University Library has a collection of books and periodicals in areas of career guidance and personality development. Materials in the areas of study, leisure too are procured and displayed prominently in the library. Several newspapers and popular magazines in English and local languages is another attraction of the library.

Training in software and other such activities: Regular training is given to students and faculty in the use of programmes and software in the areas of research and use of library materials. This includes software Glike Mendley, Zotero, Urkund etc and programmes like Shodh Ganga, J Gate, INFONET etc.

International Book Fair (INBOFA 2012): Mahatma Gandhi University organized an International Book Fair (INBOFA from 13 to 23 January 2012) at the sports pavilion of the university campus. Fifty two major national and international publishers, distributors and online information service providers participated. A variety of programmes such as theme-specific talks, seminars, discussions, book-launches, face-to-face with authors and cultural programmes were also conducted. University library had alone purchased 2571 books at a total cost of Rs.69, 42,706/-. Various department libraries and libraries of affiliated colleges also have purchased books from INBOFA stalls. Overall, sales crossed Rs.2 Crores during the event.

4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

The library collects the feedback from its users on a regular basis. The feedback collected are analysed on individual and group basis for identifying the requirements and expectations of the users. This forms the basis for devising strategies to improve the quality of services provided by the library.

4.2.11 List the efforts made towards the infrastructural development of the library in the last six years.

Many innovative services have been introduced in the library during the past five years.

Facilities for Visually and Physically Challenged:

Electronic Lab for Visually Challenged persons has been set up in the library with an objective to provide reading facilities to blind and low vision library users. The lab has the following equipment and software for catering to the specific requirements of the visually challenged users. As part of providing service, the library started audio recording of books as per request from users who are visually challenged.

A reading library for blind and low vision

- a. JAWS Talking software for the blind
- b. MAGic screen magnification software without speech
- c. MAGic large print keyboard
- d. ZoomEx instant reader
- e. Ruby hand held video magnifier
- f. Flash desk top print magnifier

Talking book library

Angel pro talking Daisy Player-e book for the blind

Braille Book Library

- a. Index Basic V-4 Braille Printer
- b. Duxbury Braille Translation Software

RFID/CCTV system implementation

University Library has implemented RFID/CCTV system using annual state plan fund 2015-16 at a total cost of Rs. 40 Lakhs approximately. The project aims at modernization of in-house operations of the library using RFID technology. As part of its implementation, all books available in the library have been tagged with RFID tags. The project is useful with regard to its accuracy and speed in issue/return of books using RFID Readers, enables anti-theft control of books and time-saver in stock-verification of books. The system also enables self-check-in/ check-out of books by the library users themselves using kiosk and drop box installed, at rush hours due to integration with KOHA-the integrated library management software used for library automation. As an additional security facility, CCTVs have also been installed with proper monitoring and recording facilities.



International Book Fair (INBOFA 2012)

Mahatma Gandhi University organized an International Book Fair (INBOFA from 13 to 23 January 2012) at the sports pavilion of the university campus. Conceived primarily as an academic carnival rather than a mere exhibition of books, the fair provided opportunities for serious readers, writers, researchers, teachers, students, publishers and the general public to meet and interact on issues concerned with reading and writing. Fifty two major national and international publishers, distributors and online information service providers participated. A variety of programmes such as theme-specific talks, seminars, discussions, book-launches, face-to-face with authors and cultural programmes were also conducted. University library had alone purchased 2571 books at a total cost of Rs.69, 42,706/-. Various department libraries and libraries of affiliated colleges also have purchased books from INBOFA stalls. Overall, sales crossed Rs.2 Crores during the event.

Other initiatives

- KOHA implementation for library automation and union catalogue development.
- Introduction of library membership for public (for graduates only).
- Extended remote access of e-resources subscribed in the library including UGC-INFONET facility to university schools/centres located outside the campus.
- Web portal creation exclusively for the library.
- Online plagiarism check system has been introduced in the university. The University Library houses a large collection of digital resources that include INFLIBNET, international journals of national/international reputation and plagiarism checking.

4.3 IT Infrastructure

4.3.1 Does the university have a comprehensive IT policy with regard to:

- IT Service Management: The entire academic life cycle (from admission to issuance of degree certificate) of a student in the university is handled with the help of ICT.
- Information Security: University has Campus Area Network (CAN) which includes a tightly secured gateway. Internal network security is ensured through firewalls, antivirus software etc.
- Risk Management: The university has implemented a TIER III Standard Data Centre with all professional industry leading security features (CISCO ASA series firewall plus NMS and Radius implementation) in place. The university has initiated a comprehensive disaster recovery plan.

- **Software Asset Management:** The university has developed its own ERP based core business processing software to handle its operations. Constant updating and change management is followed to improve productivity.
- **Open Source Resources:** The data centre of the university is operating fully under open source platform.
- **Green Computing:** The University has initiated steps to upgrade the data centre with green computing compliance. For instance, upgrading of servers with energy efficient processors and allied equipments is done. All future acquisitions into the client sides are planned to be energy efficient rugged thin clients. Steps to reduce e-waste generation and accumulation, promote recycling/reuse etc are also part of the policy.
- The university has initiated steps to prevent the accumulation of e-waste in the campus through a concerted effort whereby physical verification, certification and administrative approval of the ineffectual electronic gadgets and appliances is done by competent authority. An agreement with Clean Kerala Company, a Kerala Government undertaking for safe disposal of e-waste was also made.

4.3.2 Give details of the University's computing facilities i.e., hardware and software.

- Number of systems with individual configurations: 800 Nos
- Computer Student ratio: 0.55 : 1
- Dedicated Computing Facilities available (Most of the Schools have their own software like SPSS)
- **LAN facility:** All teaching departments have LAN connected computer labs.

Internet facility: All computers of the faculty, various research labs, university library and the department libraries are connected to the university system administration with internet facility. Wi-Fi connectivity is available to students, research scholars, faculty members and non-teaching communities.

- **Proprietary software:** Microsoft Windows 8.1, Windows 7, Matlab, Visual studio, SQL Server, Adobe licence, antivirus licence etc.
- Number of nodes/ with internet facility: 1500 NODES

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

IT Infrastructure

The University strives to provide its services ensuring transparency and efficiency by minimising paper work and computerising most of the



administrative and academic correspondence. The University Computer Centre and CETEX have been instituted to take lead in the in-house development of software systems.

The facilities in the Centre for High Performance Computing of the University is as follows:

HARD WARE:

- (1) HPC Cluster- I : Comprising of 10 numbers of HCL Global Line dual Intel Xeon 3.0Ghz processor Servers with 2GB DDR2 RAM, 73GB SCSI HDD works on Redhat Enterprise Linux OS and Redhat Linux Clustering enablement, that uses MPICH Library for distributed computing.
- (2) HPC Cluster- II : Comprising of 2 numbers of HCL Global Line 4 x Xeon Ten core Servers and one Xeon Eight core Server (total 88 processors) with 4x8GB DDR3 RAM 3x300 GB SAS HDD works on Redhat Enterprise Linux OS and Redhat Linux Clustering enablement, that uses MPICH Library for distributed computing.
- (3) GPU Server-I : Wipro Z2245 with 2 x Xeon Hexacore E5645 processor, 4x8GB DDR3 RAM, 500GB SATA HDD, Tesla M2090 GPU, DVD RW works on Redhat Linux
- (4) GPU Server-II: Dell PowerEdge T630 with 2 x Xeon E5-2620 processor, 4x8GB RDIMM RAM, 1TB SATA HDD, NVIDIA Tesla K20C GPU, DVD RW works on Redhat Linux.
- (5) PC Cluster-I: Comprising of 18 numbers of PCs with Pentium Core2Duo E8400, 2GB DDR3 RAM, 320GB HDD, DVD RW, 18.5” TFT monitor works on Linux Ubuntu 10.04.
- (6) PC Cluster-II: Comprising of 40 numbers of PCs with Pentium D processor, 4GB RAM, 80GB HDD, DVD, 17” TFT monitor works on Linux Ubuntu 14.04.
- (7) HP BL360 Blade enclosure with 2 full blades and 2 half blades with E series Xeon processors
- (8) IBM Rack servers Xeon processor – 5 numbers
- (9) Wipro tower servers 2 numbers
- (10) Sonicwall 4000 series Universal threat management system (UTM)

SOFTWARE:

- (1) MPICH – Message Passing Interface Chameleon used in distributed computing, used by Research scholars
- (2) MATHLAB + Fuzzy Logic & Parallel Computing – Mathematical Manipulation Programme, used by M.Tech Computer Science students.
- (3) CUDA – Compute Unified Device Architecture used in GPU Programming, used by Research scholars.
- (4) AMBER
 - University Data Centre: Infrastructure development for Tier-III standard data centre is completed. The work of migrating from Tier I to Tier III is progressing. The blade servers of HP are used in the university for the management of all services offered. There are four blade servers and five rack servers.
 - Campus Wi-Fi connectivity
 - Staff Training Centre and Web Centre
 - NKN Connectivity
 - Campus wide OFC Network
 - Dual leased Line Internet connectivity (BSNL)

The following major software systems have been implemented based on the above IT infrastructure facilities:

I. Introduced Biometric punching system for attendance: Biometric punching has been introduced to teachers and non-teaching staff, to ensure punctuality of attendance and also to provide electronic access to each staff member/researcher to the attendance marking system.

II. Finance

The Finance branch of the University has been completely automated with the following facilities:

a. CUFIN: Developed and implemented in 2007 for salary preparation. Python and glade are used as front end and python and postgre SQL database is used as back end.

b. e-Payment Gateway integration: Introduced the payment gateway system to collect various fees in collaboration with State Bank of Travancore.

III. Examination Applications – Student Life Cycle Management System: Developed applications to handle the entire life cycle of a student. (From admission till issuing of degree certificate). All activities of examination wing have already been computerized which include the following functions;



- Online examination notifications
- Online examination registrations
- Online hall ticket issuing
- Online examination results
- Online revaluation application processing
- Degree certificates

IV. Admission: Centralised Allotment Process (Single Window Admission System) has been developed for UG and PG admissions. The university is the pioneer in developing an in-house application for this process.

V. Research: Research portal has been started in connection with research admissions and progress.

Recent Advancements in the area:

- 1. M-Governance:** The university is extensively using SMS gateways of Kerala Government and Central Government (esms.kerala.gov.in and andesms.mgov.gov.in) for giving SMS to the students while using various online applications like e-payment etc.
 - 2. Moving to Cloud environment:** Planning to migrate to virtualisation and cloud infrastructure.
 - 3. E-Procurement using state e-procurement facility:** Already started using e-tendering facility for tendering process.
- 4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.**

The following measures were taken to promote access to online teaching and learning resources

- Digital Library is available in the campus
- Learning Management System–Moodle is available (an open source software developed in accordance with the principles of pedagogy).
- Through INFLIBNET and DELNET connection, an exhaustive quantity of online teaching materials is made available to all faculty and students. Smart class rooms equipped with online teaching and webinar facilities are available in various schools.
- Most of the classrooms have facility for internet access through LAN.
- The university library conducts training programmes for teachers and students whenever new software is introduced. Every new member of

the library is oriented with the services available in the library and the mode of utilisation of various services.

4.3.5 What are the new technologies deployed by the university in enhancing student learning and evaluation during the last four years and how do they meet new/future challenges?

- Implemented Moodle, a learning management system.
- Smart class rooms are established in all the Schools facilitating the conduct of seminars, discussions and demonstrations utilising e learning materials.
- Edmodo, an open-source software is implemented in some Schools of the University which acts as an online teaching-learning platform and as an online evaluating mechanism ensuring transparency.
- Infonet is available in all the Schools of the University.
- School of Behavioural Sciences uses Rorschach interpretative assistance programme which is a software designed to promote skill and knowledge in assessment to facilitate learning.

4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?

- A personal computer with LAN connection is provided to all teachers
- Digital library facility
- Library Management System- KOHA is available in all schools and the library of each school is connected to main library also.
- Class rooms are ICT enabled.
- Access to e-learning materials is provided.
- Digitalized PhD theses are available in the library.

4.3.7 Give details of ICT-enabled classrooms/learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?

- As part of introducing smart class room facility, the following items were supplied to various Departments:

| Sl. No. | Name of the Item | Number Supplied |
|---------|-------------------|-----------------|
| 1 | DLP/LCD Projector | 68 |
| 2 | Laptop | 68 |
| 3 | Visual Presenter | 17 |
| 4 | Interactive Board | 68 |



| | | |
|----|--|----|
| 5 | Photocopier | 26 |
| 6 | PA System | 35 |
| 7 | Scanner | 10 |
| 8 | Printer | 20 |
| 9 | 5 KVA UPS | 6 |
| 10 | High Speed Scanner | 1 |
| 11 | Desktop Computer | 95 |
| 12 | Desk top Computer with special software for blind teachers | 1 |
| 13 | Lecture Stand | 10 |
| 14 | Wireless Mouse | 68 |
| 15 | Video Camera | 10 |

- For training teachers/faculty, one smart classroom is arranged at the Conference Hall/Syndicate Room in the administrative block.
- Sufficient training is given to faculty for using smart class room facility.
- Smart class room introduction is done as a part of career guidance programme.

4.3.8 How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the university for such initiatives?

- All teachers are provided with personal computers with unlimited internet connectivity
- Schools/Centres are equipped with smart class rooms.
- Modern multimedia teaching aids like LCD projectors, smart boards etc. are available.
- Virtual programmes, teaching learning software and video conferencing facilities are also available.
- The university encourages blended learning by using online teaching learning platforms and e-learning resources.
- Orientation programmes and hands on training for familiarising faculty members with the use of various software for teaching-learning are conducted regularly.

4.3.9 How are the computers and their accessories maintained?

Warranty/Annual Maintenance Contract (AMC) system is maintained for the upkeep of computers. Computers and accessories that are not under the warranty period are maintained by the University System Administration team. It has qualified and skilled staff to repair and maintain computers and accessories.

Highly sophisticated gadgets that cannot be repaired by the team are maintained by inviting quotations from competent firms and work is assigned to firms that quote the lowest amount. Faulty components are repaired depending on the fault/damage.

4.3.10 Does the University avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes. The university avails the National Knowledge Network connectivity for accessing the digital scholarly resources provided by the UGC Inflibnet Centre. Services provided by the National Knowledge Network are high speed internet and the same connection is being used for e-governance and Wi-Fi connectivity in the university. National Knowledge Network is also provided in other centres of the university.

4.3.11 Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Yes. These tools are used for general information gathering. Deeper and more authentic knowledge discovery is done through the utilization of the web resources of reputed journals and research publications. The libraries have INFLIBNET and DELNET connection which makes access to e-learning sources easy.

4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the University.

The following table shows the expenditure on the update, deployment and maintenance of computers.

Amount in rupees (Lakhs):

| 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|----------------|----------------|----------------|----------------|----------------|----------------|
| 6.15 | 63 | 64.5 | 64.5 | 71.09 | 78.99 |



4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?

- 1) The University is planning for developing MOOC programme and online courses in various departments and Inter University Centres as part of the "Swayam" project of the MHRD.
- 2) e-seminars, e-workshops, e-conferences etc. were organized in many of the Schools/Centres.
- 3) e- content development is included in many of the student projects.

4.4 Maintenance of Campus Facilities

4.4.1 Does the University have an estate office/designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Yes. The University has an Estate Officer in the rank of Assistant Registrar to look after the maintenance of buildings, class rooms, etc. The University has a total area of 163.4819 acres of land. The office of Estate Officer was established for developing the university campuses with a view to creating a learning ambience in the campus. It also aims at development of suitable plans and projects for the entire campus area by co-ordinating the various construction and plantation activities taking place in the campus. The administrative aspects pertaining to maintenance and repair of university buildings are taken care of by the office of the Estate Officer and those of the major repairs by the Planning and Development section. The repairs and maintenance of university buildings are carried out by the University Engineering Unit.

Some of the campus specific initiatives taken by the office are given below

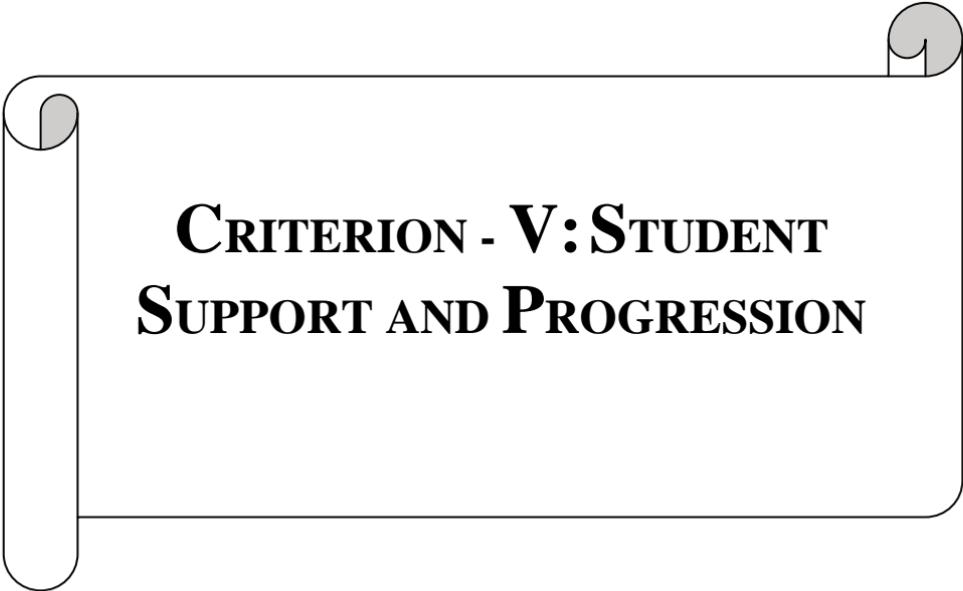
8. Being a drought prone area, thrust was given for water conservation initiatives like construction of rain water harvesting structures. A 24 hour uninterrupted water supply is ensured by the university through a captive water supply scheme to the campus. A quarry in the campus is utilised for rain water harvesting. Rain water harvesting has been done in a big scale in most of the existing buildings and the university has one of the biggest water conservation ponds in the country with a size of 53 m x 40 m x 22 m. It holds approximately 4.5 crores litres of water which meets the water needs of the university.
9. University has also initiated measures to recharge seven wells and one more quarry with rain water collected from roof top of buildings through an innovative well charging mechanism. Water is sourced from 8 wells and 3 bore wells located in different locations in the campus. The water consumption per day is 1.5 lakhs litres. As part of its environmental

sustainability measures, the University added waste management systems by installing biogas plants too in the campus.

10. Teak, mango, tamarind, jackfruit and a number of fruit bearing plants and trees are also planted in the campus as part of greening the campus every year.
11. The cutting of trees is restricted in the campus to minimise environmental damage and to keep it a haven of biodiversity.
12. The office in collaboration with School of Environmental Sciences has conducted a survey for analysing the biodiversity of the campus resulting in the naming of trees in 2012.

4.4.2 How are the infrastructure facilities, services and equipment maintained? Give details.

The various administrative responsibilities/ maintenance of infrastructure facilities (repairs, plumbing, and electricity) are carried out through the Engineering department. The instruments are maintained through university Instrumentation Centre, AMC and departmental allocation of funds. Other maintenance work is done through the Estate officer and the security wing.

A decorative scroll graphic with a black outline and grey shading on the rolled-up ends. The text is centered within the scroll.

**CRITERION - V: STUDENT
SUPPORT AND PROGRESSION**

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes, The university has an effective transparent system for student support and mentoring. According to the guidelines of CSS, Faculty Advisors are appointed for the welfare of the students of each PG Programme. Students are helped to choose appropriate electives. Each student is allotted a guide to prepare their dissertation as per the curriculum.

The Schools/Centres ensure smooth induction of fresh batches at the beginning of the academic session through an orientation programme. This orientation programme includes a welcome to the newcomers by the senior batches in which they are also introduced to the programmes, the courses and the curriculum. The new comers are guided by the teaching and non-teaching staff to familiarize with the formalities after admission and help them adapt to the new environment. The senior students also render all possible support whenever required. The students are provided with necessary guidance and counselling by the counsellors, teachers and wardens. The students are under the guidance of a faculty member who takes care of all aspects of mentoring including counseling which takes care of emotional, intellectual, moral and personal support.

All the Schools/Departments have Faculty Advisors for each semester to address academic and personal issues of students. The mentors take up the needs/relevant issues of the students in the Faculty Council and necessary remedial measures put in place.

A three-day workshop to improve the mentoring skills of faculty was organized by the School of Behavioral Sciences in March 2016. Experts from various institutions of national repute took part in the workshop.

Students belonging to SC and ST categories are supported by the financial schemes of the Government and other welfare agencies. Remedial coaching and other support as and when necessary are given, individually or collectively.

The Department of Student Services takes care of the overall development and welfare of the students and coordinates socio-literary and cultural activities among them. Prevention of ragging is ensured by DSS through various awareness/orientation programmes. National Service Scheme and University Employment and Guidance Bureau also render valuable services for the support mechanism and mentoring of the students. Special programmes are conducted to impart soft skills, leadership qualities, personality traits, communication skills, essential life skills, internet ethics, and etiquette among



the students. The university helps and encourages the students to avail various scholarships and grants like e-Grants, ASPIRE, INSPIRE, KSCSTE, KVPY etc.

5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

The University offers various facilities for the academic mentoring. Major provisions are as follows.

- Erudite Scholar-in-Residence programme
- Seminar/conferences in frontier areas
- Workshops and summer schools.
- Extension lectures
- Library
- Web Centre
- e- Journals
- Talking Library for the blind
- NSS Camps
- Field Visits
- Industry Familiarisation trips
- Flipped Class rooms
- Online Interaction with Industry
- Internship Programmes
- Wi-fi Campus

The students can meet the Faculty Advisors for various academic activities like the preparation of research papers, selection of topics for seminars etc. The Faculty Advisors motivate the students to present papers in the national and international seminars. The Faculty gives special lectures to the academically weaker sections of the students in each school.

The students are encouraged to establish one-to-one linkage with the scholars visiting the university for future academic endeavors. These include several scholars, scientists, industrialists, management exponents, Nobel laureates and men and women of letters that the University periodically invite for academic deliberations which provide ample opportunities to the students to redefine and fine tune their vision about their scholastic pursuit.

To give a few specific examples from individual schools, the School of Computer Science has a healthy practice of encouraging student initiated academic and technical activities. The School has been organizing an annual technical meet - “Interface” since 1996. The publishing of an annual technical

publication since 1999 titled *IT Glimpse* is another major facet. The event aims at bringing together computer science students from various universities and institutions and to provide a common platform to share their talents by means of a series of technically challenging competitions like paper presentations, technical quiz, programming and troubleshooting. Event management of this magnitude enriches the technical/academic knowledge of the students in addition to the enhancing of soft skills like organizing capacity, peer group management skills, communication skills etc. It also helps to establish academic interactions among students and between students and alumni of the school.

The School of Indian Legal Thought conducts legal aid programmes and training is given to students for attending various national as well as International Moot Courts. The school of International Relation conducted a summer school on public policy and governance in collaboration with ISDG.

Special refresher classes are also conducted for the benefit of the students to appear for various competitive examinations like PSC, Staff Selection Commission, UPSC, IBPS, CSIR, UGC NET, GATE etc.

5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

The students are motivated to attend the programmes conducted by the University Employment Information and Guidance Bureau for personal enhancement, career identification, and soft skill development, besides special programmes organized by the schools, NSS and DSS.

One of the major identified drawbacks among the students is the lack of appropriate communication skills for which the university provides special attention. In order to empower students with English speaking skills, Thursday Club has been formed under the aegis of School of Environmental Sciences, where the students gather every Thursday and discuss general topics of their interest in English coordinated by a faculty member.

The School of Management and Business Studies, conducts a week-long Finishing School programme in the last semester of MBA programme. Thrust is being given to identifying and rectifying skill/ competence gaps to enhance employability of the students. Skill training sessions are also conducted in every four months for a period of three days to enhance their skills.

The School of Indian Legal Thought has a scheme for improving professional skills of the students. Eminent lawyers are invited to the campus for interaction and guidance. The School has introduced mock trials, court visits, public interest lawyering and para legal services like legal awareness campaigns. The broad objectives of the initiatives are:



✓ **Mock Trial**

- For improving the practical professional skill of law students.
- Imaginary legal issues which have close connection with the current society are selected for mock trials to enhance the sensitivity of the students to socially relevant legal matters.

✓ **Court Visit**

- Students are sent to courts for observation of court proceedings and to keep a record of the proceedings.
- The institution has assigned one law firm each for a group of four students. The students are sent to law firms to improving their drafting skills.

✓ **Public Interest Lawyering, Legal and Para Legal Services (Legal Aid Clinic)**

- The School organizes regular legal aid camps at selected areas under the auspices of the Legal Aid Clinic for the benefit of the common people. Legal awareness/literacy programmes are conducted in which the students play the lead role to fine tune their skill sets as a professional lawyer. Support of legal service authorities is also sought in this connection.

- An important activity of the Department of Life Long Learning and Extension is the 'Counsellor on Call' facility. It is functioning as part of the personality development centre of the department. Students from any department can avail the service of a Counsellor on prior appointment. The department will provide the service of the Counsellor and the students can discuss the matter with the Counsellor.

The students of the master's programme are exposed to research by linking them with the research scholars for assisting in various projects. Similarly the students and research scholars are trained in organizing international and national seminars/conferences by delegating them in various committees. This will enhance the leadership skills of the students and scholars.

- School of Computer Sciences has been organizing an annual technical meet "Interface" since 1996 and publishing an annual technical publication "IT Glimpse" since 1999. The event provides a common platform to students to share their talents by means of a series of technically challenging competitions like paper presentations, technical quiz, programming, N/W gaming, troubleshooting enriching their technical/academic knowledge.

5.1.4 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes. All Schools and Centres provide the students with the necessary help in obtaining educational loan from banks and other institutions, as and when necessary. Schools make the documentation and certification process easy and accessible to students who need financial help.

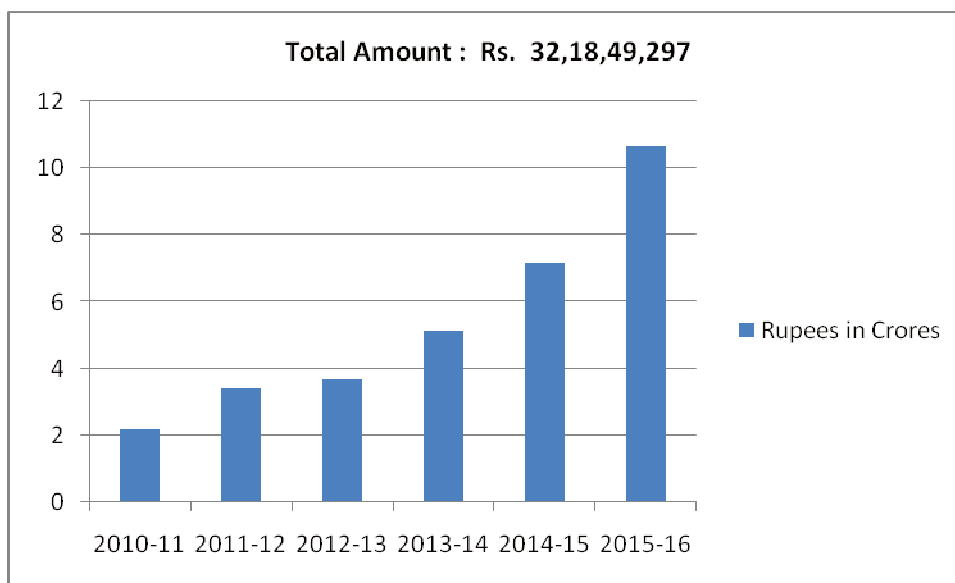
5.1.5 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

Yes. Admission prospectus is published online every year. All details regarding the programmes, fee structure, admission procedure, entrance examination details and reservation criteria are included in the prospectus. All admission procedures are done online. All the schools have their own brochures.

5.1.6 Specify the type and number of university scholarships/free ships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/ Ph.D/Diploma/Others (please specify)

| Sl. No | Type of Fellowship | 2010-11 | | 2011-12 | | 2012-13 | | 2013-14 | | 2014-15 | | 2015-16 | |
|--------------|---------------------------|------------|--------------------|------------|--------------------|------------|--------------------|------------|-------------------|------------|--------------------|------------|---------------------|
| | | No * | Amount | No* | Amount | No* | Amount | No* | Amount | No* | Amount | No* | Amount |
| 1 | University JRF for Ph.D | 120 | 99,99,641 | 160 | 99,95,129 | 106 | 51,03,975 | 257 | 1,49,99,083 | 200 | 1,39,30,238 | 230 | 2,75,01,702 |
| 2 | University PDF | -- | -- | 2 | 80,266 | 3 | 1,44,266 | 3 | 3,20,958 | 2 | 2,73,858 | 2 | 1,13,077 |
| 3 | CSIR JRF /SRF | -- | -- | 4 | 7,19,183 | 9 | 15,10,915 | 12 | 25,23,619 | 14 | 17,30,195 | 12 | 29,41,338 |
| 4 | UGC/JRF/SRF | 44 | 60,19,410 | 40 | 89,94,419 | 123 | 1,49,78,805 | 165 | 1,79,59,835 | 188 | 3,94,91,785 | 164 | 6,06,91,129 |
| 5 | DST INSPIRE | -- | -- | 1 | 2,50,400 | 2 | 5,00,800 | 7 | 21,19,800 | 12 | 30,28,123 | 09 | 38,98,282 |
| 6 | ICSSR Senior Fellowship | -- | -- | -- | -- | 1 | 2,40,000 | 1 | 2,25,679 | --- | --- | ---- | --- |
| 7 | ICSSR Doctoral Fellowship | -- | -- | -- | -- | -- | -- | 1 | 1,00,000 | 1 | 92,000 | 01 | 92,000 |
| 8 | RFSMS | 15 | 14,68,000 | 16 | 31,78,829 | 21 | 40,02,473 | 22 | 28,83,971 | 19 | 31,78,603 | 11 | 10,83,255 |
| 9 | RGNF | 21 | 34,91,199 | 26 | 63,10,434 | 22 | 34,56,679 | 13 | 20,96,868 | 09 | 14,26,110 | 04 | 80,500 |
| 10 | ASPIRE | 7 | 56,000 | 69 | 8,74,000 | 91 | 12,25,000 | 7 | 1,04,000 | 99 | 14,33,091 | 98 | 26,94,708 |
| 11 | KSCSTE | 05 | 6,72,849 | 05 | 6,69,000 | 08 | 14,01,827 | 12 | 31,00,937 | 12 | 27,54,891 | 09 | 18,41,801 |
| 12 | E-GRANTS | -- | -- | 149 | 2925687 | 136 | 4091086 | 116 | 4774065 | 144 | 4178136 | 92 | 5825388 |
| Total | | 212 | 2,17,07,099 | 472 | 3,39,97,347 | 522 | 3,66,55,826 | 616 | 5,1208,815 | 700 | 7,15,17,030 | 632 | 10,67,63,180 |

*Number of Students



5.1.7 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?

During the last five years students belonging to different categories including Ph.D scholars have received 65% of their financial assistance from the Central Government and 35% from the state government.

5.1.8 Does the university have an International Student Cell to attract foreign students and cater to their needs?

The University has an explicit policy and strategy for attracting foreign students. The University has a Centre for International Cooperation (UCIC), established in 2011, which is exclusively for coordinating the enrolment of international students and cater to their needs, with the support of the Indian Council of Cultural Relations (ICCR).

The procedure and instructions for foreign students who wish to apply for the University programmes are in the public domain (University web site www.mgu.ac.in).

List of Foreign Students Currently Studying/ Admitted to Mahatma Gandhi University through the ICCR Sponsored Cultural Exchange Schemes / Exchange Scholars /MoU/Self-Financing Scheme during 2010-16

2010 – 2011

| Sl. No. | Name of the Students | Country | Course and Scheme | College/School |
|---------|---------------------------|----------|---|---------------------|
| 1. | Ms.Louise Pageot | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 2. | Ms.Marie Houdin | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 3. | Ms.Pauline Calvez | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 4. | Mr.Antoine De Seigneurens | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 5. | Mr.Vincent Sacau | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 6. | Ms.Gao Wenjing | China | M.A Politics and International Relations (Exchange) | SIRP, MG University |
| 7. | Mr.Tran Minh Nhan | Vietnam | M.A Politics and International Relations (ICCR/CE) | SIRP, MG University |
| 8. | Ms.Elif Bali | Turkey | M.Phil Politics and International Relations (ICCR/CE) | SIRP, MG University |
| 9. | Mr.Tito R Mhagama | Tanzania | MBA (ICCR/CE) | SMBS, MG University |

2011 – 2012

| Sl. No. | Name of the Students | Country | Course and Scheme | College/School |
|---------|----------------------------|---------|--|---|
| 1 | Ms.Oceng Frede Amito | Uganda | M.Sc Food Service Management (ICCR/CE) | Assumption College, Changanacherry |
| 2 | Ms.Lwamusai Marsha | Uganda | MBA (ICCR/CE) | Girideepam Institute of Advanced Learning, Kottayam |
| 3 | Mr.Kamya Joseph | Uganda | B.Com (ICCR/CE) | FCMS, Chry |
| 4 | Mr.Mwanje Ssenono Aloysius | Uganda | M.Sc. (IT) (ICCR/CE) | UCAS, Pathanamthitta |
| 5 | Dr..Hanna Barbara Urbanska | Poland | PDF (ICCR/CE) | School of Letters , MG University |
| 6 | Ms.Mallet Oriane | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 7 | Ms.Caillon Marine | France | M.A Politics and International Relations (MoU) | SIRP, MG University |



2012 – 2013

| Sl. No. | Name of the Students | Country | Course and Scheme | College/School |
|---------|-----------------------------|---------------|---|--|
| 1 | Mr. El. Hadji Mamour Sakho | Senegal | Ph.D. (ICCR/ ASS) | SPAP , MG University |
| 2 | Mr. Zhussip Zhumagaliyev | Kazakhstan | M.A. Politics and International Relations (ICCR/GCSS) | SIRP, MG University |
| 3 | Mr. Imanirarora Lote | Rwanda | Master in Comp.Sc./IT (ICCR/ASS) | School of Computer Sciences, MG University |
| 4 | Mr. Sho Tanaka | Japan | M.A. Politics and International Relations (ICCR/CEP) | SIRP, MG University |
| 5 | Ms. Céline Di Mantova | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 6 | Ms. Alma Laplace | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 7 | Ms.Chloé Delpierre | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 8 | Mr. Simon Cannone | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Mr. Derouault Jean-Baptiste | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 10 | Ms. Jessica K. Haven | United States | M.A. (Development Studies) Independent | SGTDS, M.G. University |

2013 – 2014

| Sl. No. | Name of the Students | Country | Course and Scheme | College/School |
|---------|---|-----------|---|--|
| 1 | Mr. Tigran Ghazaryan | Armenia | MBA (GCSS) | Girideepam, Kottayam |
| 2 | Mr. Ravneel Prakash Mani | Fiji | B.Sc. (Comp. Sc.) (GCSS) | UCAS, Pullarikunnu |
| 3 | Mr. Kwasi Mensah Nyarko | Ghana | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 4 | Ms. Ni Luh Hindy Citra Satyawati Inggas | Indonesia | B.A. Economics (GCSS) | K.E. College, Mannanam |
| 5 | Mr. Adoum Idriss Adoum | Chad | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 6 | Mr. Joseph Phillipo | Tanzania | M.Sc. (Comp. Sc.) (ASS) | School of Computer Sciences, M.G. University |
| 7 | Mr Lucas Pardal | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 8 | Mr Hugo Chene | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Mr. Feyisa Rita Melaku | Ethiopia | Ph.D. in Social Work (ASS) | SGTDS, MG University |

2014 – 2015

| Sl. No. | Name of the Students | Country | Course and Scheme | College/School |
|---------|--|----------|--|---|
| 1 | Mr. Corentin Maurice Daniel Mercier | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 2 | Ms.Fanny Jeanette Marie Josephe Ragot | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 3 | Ms.Julie Marie Rousseau | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 4 | Mr. Hay Sambo | Cambodia | M.Sc. (Comp. Sc.) (Mekon Ganga Scholarship Scheme) | School of Computer Sciences, M.G. University |
| 5 | Mr. You Vanndy | Cambodia | M.Sc. (Comp. Sc.) (Mekon Ganga Scholarship Scheme) | School of Computer Sciences, M.G. University |
| 6 | Ms. Ellen Twamanguluka Nghikembua | Namibia | M.Sc. Psychology (ASS) | SBS, M.G. University |

2015 – 2016

| Sl. No. | Name of the Students | Country | Course and Scheme | College/School |
|---------|----------------------------------|---------|---|--|
| 1 | Ms. Camille Nelly Madeleine | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 2 | Mr. William Emilien | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 3 | Ms. Nwabugwu Amarachi Augusta | Nigeria | M.A International Relations | SIRP, MG University |
| 4 | Mr. Mayiek Aldrine Kintai | Kenya | M.A. Economics | K.N. Raj Centre, M.G University |
| 5 | Ms. Sushma Khaiju | Nepal | M.Sc (Disability Studies and Rehabilitation Sciences | School of Behavioural Sciences, M.G University |
| 6 | Ms. Nyaribo Nyangara Knight | Kenya | M.Sc. Computer Science, | School of Computer Sciences, M.G. University |



The schools and centres of the university also receive international students as part of their bachelor, master and Ph.D programmes. The university also receives international post doctoral fellows under prestigious programmes like Raman-Charpark fellowship.

5.1.9 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes. The various Schools provide the students with the necessary help in obtaining educational loan from banks and other institutions, as and when necessary. Schools make the documentation and certification process easy and accessible to students who approach for financial help.

5.1.10 What types of support services are available for?

➤ **Overseas students**

- University has rented two buildings with all infrastructure for the accommodation of international students located close to the campus.
- The university has initiated measures to construct an international hostel.
- University Centre for International Co-operation (UCIC) is working towards enhancing the induction of foreign students and to take care of the special welfare requirements of the international students in association with ICCR.
- The UCIC organizes cultural programmes to make the stay of the overseas students more meaningful. Cultural exchange programmes and student familiarization sessions are also organized with the help of faculty members.
- The UCIC regularly organizes programmes in association with the Kerala State Higher Education Council of Kerala for the overseas students.

➤ **Physically challenged / differently-abled students**

The university follows the reservation norms for admissions to students joining the various programmes. Upholding the spirit of inclusive education, for the benefit of the physically-challenged, aids like ramps and wheel chairs are provided in all schools for the free mobility of the physically-challenged. New buildings are mandated to be physically challenged-friendly. The university has availed Rs. 1 Crore under the RUSA scheme for the construction of ramps and disabled friendly toilets in all buildings of the University. The classes for differently-abled students are arranged in the ground floor to the maximum extent possible. The University has also provided wheel chairs in all the buildings.

University has conducted a comprehensive access audit to evaluate the state of accessibility in the campus. All the schools and offices in the university are connected with well-maintained roads. University has also initiated steps to

procure an eco-friendly battery operated vehicle with wheel chair access along with preferential parking facilities to ensure barrier free transportation in the campus. Electronic Lab for visually challenged has been set up in the library during October 2015 with an objective to provide reading facilities to blind and low vision library users.

As per U.O No. 4308/P&D -1/3/2016/Admn dated 01/08/2016, the University has issued an order formulating a comprehensive policy for addressing disability issues. The main components of the order are as follows:

- To engage the service of a barrier free design expert and architect to audit the disabled-friendliness of all physical segments of the university.
- To ensure disabled-friendly features like ramp (of a gradient not greater than 18-20 degrees), lifts (wide enough for wheel chair, and with Braille control switch panel and audition), special assistive fixtures and fitting (like handrails and grab bars alongside the side walk of steps and staircases), and disabled - friendly washrooms in all future construction projects.
- To allow a grace period of three months for M.Phil and six months for Ph.D students who are physically challenged in the submission of dissertations.
- To ensure at least one terminal in the computer workstation (of all departments, centres) with special assistive technologies, preferably open source, for physically challenged students.
- To ensure the websites of Mahatma Gandhi University and its statutory teaching departments and the affiliating colleges incorporate features friendly to the visually challenged (including colour contrast, variable font size and audition).
- To create a special fund to handle all income and expenditure relating to addressing disability issues of Mahatma Gandhi University including constituent colleges. Besides central and state funding and UGC special assistance, funds are also received from MP/MLA development plan assistance for constituencies, and rules permitting, from the private sector companies (who may fulfil it as part of corporate social responsibility).
- To highlight the aspect of disabled - friendliness in all notifications for admission and appointment released by the university with the statement "MGU is proactive to the needs of the physically challenged" is inserted.
- The university has a unique School-School of Behavioural Sciences to impart training and to coordinate research activities in disability, rehabilitation and mental health. The Department of Indian Sign Language was started in the year 2015 to train young professionals who can interpret and communicate in Indian Sign Language. The students



undergoing this course participate in various official programmes and translate the programme in Indian Sign Language.

- The University took the lead to establish an Inter University Centre for Disability Studies as well as an Institute of Research in Learning Disability which are pioneering centres of advanced learning and intervention in the area of disability studies. The main focus of the initiatives is to provide individualized and holistic educational support mechanisms for managing disabilities including learning disability.

The objectives of the initiatives include:

- To develop higher level professionals in the field of disability studies.
 - To develop a holistic approach for the total rehabilitation of the disabled.
 - To establish advanced facilities and promote research and extension activities in major areas of disabilities.
 - To impart training to personnel of NGOs, parent groups, students, teachers, special educators and rehabilitation professionals.
 - To address the physical, psychological and socio-cultural issues related to disability based on interdisciplinary studies for evolving sustainable solutions.
 - To strengthen the regular school system to facilitate inclusive education.
- **The University also took the lead to establish DREAMS** (Disability Rehabilitation Early Assessment and Management Services), an extension activity with the objective of providing early identification and intervention services to all types of disabilities under one roof. The initiative provided support services to 764 referral child clients, from medical institutions through DREAMS, during the assessment period.
- **SC/ST, OBC and economically weaker sections**
- Mandatory reservation for the SC, ST, OBC and economically weaker sections are ensured as per government guidelines. Special allotment drive for admissions for the above sections is another major facet. Education is provided free of cost to all SC, ST and non creamy layer OBC students. The faculty helps students in the SC, ST and OBC non creamy layer and other disadvantaged groups to identify and avail various schemes and scholarships. The university has an SC/ST Cell for the welfare of the weaker sections. University offers academic, financial and moral support to the needy. Most of the departments conduct remedial coaching classes to uplift them academically. Volunteer support mechanism prevails in all Schools for the needy.

➤ **Students participating in various competitions/conferences in India and abroad**

Students are encouraged to participate in international and national conferences, workshops, seminars, and the university provides all possible support to ensure their participations. They are encouraged to participate, present papers and compete for the best paper awards in annual events like Indian Science Congress, Kerala Science Congress, Indian History Congress, South Indian History Congress, Association for Third World Studies and other national and international seminars and workshops within the country. The applications submitted by the students for foreign travel are forwarded to funding agencies on a fast track basis. Many PhD students of the university go abroad by making use of travel grants provided by DST and CSIR. Students of the University very actively participate in the Inter University; inter state and national level sports competitions. University provides them the required support. Scholarships are given to 130 students for their excellence in sports and games.

➤ **Health Centre, Health Insurance etc.**

University has a well equipped Health Centre in the campus. A resident medical officer's service is available to the students and staff members. It also conducts regular health checkups to diagnose and prevent life style diseases. Free medical aid, observation facilities, health awareness camps and counseling, preventive medical camps, blood group identification, eye check up etc are conducted on a regular basis. Health insurance is offered to the students. Gymnasium for men and women and also a stadium are available for the students. Yoga classes are conducted for encouraging a healthy life style of the student community by the university.

➤ **Skill development (spoken English, computer literacy, etc.)**

For the soft skill development of the students, the university is providing classes in computer literacy and spoken English. All schools have well equipped computer lab with internet connection to cater to the needs of the students. Training programmes are organised in specialized software. University facilitated the service of a Language Lab to enhance the skill in English and French. Centre for English Language and Communication Skills (CELCS) offers short term courses in Communicative English.

A course on 'Communication and Academic Writing' has been made part of the core course of the MA Programme in the School of International Relations and Politics. Also, the School of Management and Business Studies offers a short term skill training programme every four months, for a period of three days to boost the confidence level among students.



➤ **Additional Skill Acquisition Program (ASAP)**

Courses like 3D animation and computer accounting are offered to under graduate students. Twenty five colleges have registered with the university for ASAP integration.

➤ **Performance enhancement for slow learners**

For the performance enhancement of slow learners the following measures were taken:

- Short review at the beginning of each class.
- Extra coaching classes twice a week.
- Clearly articulating the conceptual content of each topic.
- Bilingual teaching efforts.

➤ **Exposure of students to other institutions of higher learning/ corporates/business houses, etc.**

Collaboration with National Institutes

- Vikram Sarabhai Space Centre (VSSC), Trivandrum, India
- Rubber Technology Centre, Indian Institute of Technology, Kharagpur, India - 721 302
- Indian Institute of Technology, Chennai
- Polymer Chemistry Division, National Chemical Laboratory, Pune, India
- Indian Institute of Chemical Technology, Hyderabad, India
- BARC, Mumbai
- Laboratory of Condensed Matter Physics, University of Rajasthan, Jaipur, India
- Department of Civil Engineering, Indian Institute of Technology, New Delhi, India
- Department of Physics, University of Mysore, Mysore
- Jawaharlal Nehru University, New Delhi.
- Indian Institute of Science, Bangalore
- IICT, Hyderabad
- Central Leather Research Institute, Chennai.
- Centre for Development Studies, Thiruvananthapuram.
- Indian Institute of Technology (IIT), Jodhpur.
- Kerala Institute of Local Administration (KILA), Thiruvananthapuram.

- State Institute of Rural Development (SIRD), Thiruvananthapuram.

Collaboration with International Institutes

- Macromolecular Science & Engineering Research Centre, Laval University, Quebec, Canada G1K7P4. (Prof. Prud 'homme)
- Abt. Kunststoffee/Verbundwerkstoffe, TU Hamburg-Harburg, AB 5-09, Denickestraße 15, D-21073 Hamburg, Germany (Prof. V. Alstädt)
- Technische Universität Chemnitz, Polymerchemie, Straße der Nationen 62, 0911 Chemnitz, Germany (Prof. Steffan Spange)
- Directeur de ENSCCF, 24 avenue des Lais, BP - 187 - 63174 Aubiere, Cedex, France (Prof. Jacques Lacoste)
- Laboratory of Macromolecular Structure Chemistry, Department of Chemistry, Katholieke University of Leuven, Belgium (Prof. Gabriel Groninckx)
- Martin-Luther-Universität Halle Wittenberg, FB Physik, Fridemann-Bach Platz 6, 06108, Halle, Germany (Prof. Manfred Knorren)
- Assoc. Prof. of Polymer Physics, University of Chemical Technology Metallurgy, 8, Kilment Ohridski Blvd., 1756 Sofia, Bulgaria (Dr. Christo Betchev)
- Institute of Material Science & Technology, Martin-Luther-Universität, Halle-Wittenberg, Postanschrift D-06099 Halle, Haussanschrift Geusaer Straße, Germany (Prof. (Dr.) Ing. Hans-Joachim Radusch)
- Institute of Composite Materials Ltd., University of Kaiserslautern, Kaiserslautern, Germany (Prof.(Dr.) Jozef Karger Kocsis)
- Institute of Polymer Research, Hohe Strasse 6, D- 01069 Dresden, Germany (Prof. Manfred, Stamm, Dr. Jürgen Pionteck, Dr. Petra Poetschke Dr. Cornelia Bellman)
- CNRS Lab, Laboratoire de Recherche sur les, Polymers, UMR 7581-CNRS, 2-8 rue Henri Dunant, 94320 Thiais, Paris, France (Prof.(Dr.) Françoise Lauprêtre)
- Institut des Matériaux de Rouen, faculté des sciences, BP12, 76801 Saint etienne du rouvray, responsable de LECAP, équipe de l'UMR6522 Polymères-Biopolymères-Membrane, France (Prof. Jean Marc Saiter)
- Laboratoire L2PIC, University of South Brittany, Rue Saint Maude, Lorient Cedex, France (Prof. Yves Grohens)



- Polymers Nanotextures & Nanocomposites, Centre de Recherche sur la Matiere Divisee1B, rue de la Ferrollerie, 45071 Orleans Cedex 2, France (Dr. Christophe Sinturel)
- Beijing University of Chemical Technology International Exchanges and Cooperation Dept, Add. No.15 Beisanhuan East Road, Beijing 100029,P.R.China (Dr. Yang Weimin)
- Thermal lab, UIT, University of Paris 12, Creteil Campus, France(Prof. Dr.Yves Candau and Prof. Dr. Abdel Boudenne)
- Department of Chemical Engineering, CIT, Katholieke University of Leuven, Belgium (Prof. Paula Mouldnaers)
- CNRS, Strasbourg, France, (Prof. Dr. Rene Muller)
- Department of Chemsitry, Walter Sisulu University, Mthatha, South Africa. (Dr Oluwatobi S Oluwafemi).
- Department of Chemical Engineering, Katholieke University of Leuven, Belgium (Prof.Dr. Paula Moldnaers)
- Jozef Stefan institute, Ljubljana, Slovenia (Prof. Dr. Uros Celvar)
- University Technology Mara (UiTM), Malaysia (Dr. Chan Chin Han)
- Institute for Polymer Research Dresden (IPF), Dresden, Germany (Prof. Dr. Manfred Stamm and Dr. Jurgen Pionteck)
- The Institute of Chindian studies, Jinan University, China
- Caltech University, USA
- POSTECH, South Korea
- Frankfurt University, Germany
- Brown, Duke and Plymouth State Universities of USA under Obama Singh Programme
- the Institute of Political Studies (IEP) of Rennes, France
- Sciences Po Bordeaux, France.
- The Technical University of Denmark.
- Ben-Gurion University of the Negev, Israel.

The University has academic collaboration with research institutions of international reputation such as the Max Planck Institute of Technology, Germany, Brown University, USA, University of Nantes, University of Strasbourg, University of Nancy, University of Paris Twelve, University of South Brittany of France, California Institute of Technology, USA, University of Toronto, Canada, Catholic University, Belgium, Heidelberg University, Germany, and the Institute of Political Studies, Rennes, France, University of Wisconsin-Parkside, Duke University and Plymouth State University of USA.

Students are encouraged to participate in events conducted by such institutions. They are also allowed to conduct a part of their work for M Sc and M.Phil dissertations in these institutions. Moreover, Ph.D students are also allowed to carry out their experiments in collaboration with the above mentioned institutions. Many Ph.D students have joint publications co-authored by experts from other institutes in India and abroad.

Mahatma Gandhi University has many forms of relationships with different types of organizations, for a variety of reasons that includes:

- The joint development of courses
- Joint research proposals
- Exchange of Faculty members
- Exchange of Students
- Joint Publications in refereed journals
- Joint organising of conferences and workshops
- Joint editing of books by international publishers
- Joint PhD programmes
- To create sustainable strategic alliances

MoU Signed with external organisations and effectively implemented: 46

| School | No. of MoUs | Organisation with which MoU is signed |
|--------------------------------|-------------|--|
| School of Chemical Sciences | 8 | <ul style="list-style-type: none"> • University of Alberta • Deakin University, Australia • Almaty Institute of Power Engineering and Telecommunications, Kazakhstan • Louisiana Tech University • Universiti Teknologi Mara, Malaysia • Siberian federal University Russian federation • KANSAS STATE University, USA (Proposed) • Alathur Pharmaceutical Manufacturers Association, Kancheepuram |
| School of Behavioural Sciences | 5 | <ul style="list-style-type: none"> • St. John the Baptist College of Special Education, Changanacherry • Nirmala Sadan Training College for Special Education, Muvattupuzha • Snehasadan College of Special |



| | | |
|--|----|---|
| | | <p>Education, Angamaly</p> <ul style="list-style-type: none"> • Janey College of Allied Health, Ernakulam • St. John of God College Special Education, Pampady |
| School of Environmental Sciences | 2 | <ul style="list-style-type: none"> • Bhabha Atomic Research Centre, Mumbai • Brown University, USA. |
| Advanced Centre of Environmental Studies and Sustainable Development | 5 | <ul style="list-style-type: none"> • Technical University, Denmark. • Ben-Gurion University of the Negev, Israel. • Plymouth State University, USA. • Duke University, USA. • IIT, Jodhpur. |
| School of International Relations & Politics | 3 | <ul style="list-style-type: none"> • Institute of Political Studies, Rennes, France • The Sciences Bordeaux (IEP), France • Institute of Chindian Studies, Jinan University, China |
| School of Management & Business Studies | 1 | <ul style="list-style-type: none"> • Management Development Institute, Gurgaon (International Summer University Programmes 2016) |
| School of Pure and Applied Physics | 2 | <ul style="list-style-type: none"> • Inter-University Centre for Astronomy and Astrophysics, Pune • SKA-India Consortium comprising of NCRA-TIFR; RRI, Bangalore; IUCAA, Pune; IISc, Bangalore; IIT, Kanpur; IISER, Mohali; SINP, Kolkata; Presidency University, Kolkata, St. Thomas College, Kozhencherry, Jamia Millia Islamia, New Delhi; PRL Ahmedabad; IIT, Indore; IIAP, Bangalore; IIST, Thiruvananthapuram; ISI Kolkata. |
| | 20 | <ul style="list-style-type: none"> • Kingmongkuts University of Technology, Thailand • University of Lorraine, France • The Ecole National Superior des Mines d'Albi-Carmaux • Iran National Institute of Materials and Energy • The Center for nanocellulose future composite, INHA University, South |

| | | |
|--|--|---|
| <p>International and Inter University Center for Nano Science and Nanotechnology (IUCNN)</p> | | <p>Korea</p> <ul style="list-style-type: none"> • Brusa University, Turkey • Warsaw University of Technology, Poland • MRF LTD.Chennai • VIT University Vellore, Tamilnadu • Walter Sisulu University, South Africa • Department of mechanical Engineering, Rajiv Gandhi Institute of Technology, Kottayam • University of Rouen • University of Pretoria, South Africa • Indian Institute of Tropical Meteorology, Pune • Almaty Institute of Power Engineering and Telecommunication, Kazakhstan • Chagwon National University, Korea • Deakin University, Geolong, Australia • Laboratoire des Sciences Analytiques CNRS, Universite Claude Bernard, Lyon, France • Alathur Pharmaceutical Manufacturers Association, Alathur • Universiti Teknologi MARA, Malaysia |
|--|--|---|

➤ **Publication of student magazines**

- University Student's magazine is published every year by the Department Student's Union (DSU). Apart from that, most of the schools have their own magazines and newsletters. For example, *Manasu and Kunchika* published by the Department of Lifelong Learning and Extension. *Hue* is the magazine of the School of Tourism Studies.
- School of Computer Sciences has been publishing an annual technical publication titled "IT Glimpse" with technical articles and papers compiled from students, research scholars, faculty and alumni since 1999. The "IT Glimpse" is released in both printed and online versions during interface meetings.



5.1.11. Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome?

Yes. Various departments of the university conduct coaching classes for NET/SET etc. Apart from that, university has an Employment Information and Guidance Bureau which is providing coaching for the above mentioned courses as and when required. The Bureau offers special programs to students from the under privileged sections of the society. The Department of Life Long Learning and Extension has arranged a series of coaching classes for students appearing for various competitive examinations. The University also conducts UGC sponsored coaching programme named 'Entry into service'.

5.1.12 Mention the policies of the University for enhancing student participation in sports and extracurricular activities through strategies / schemes such as

➤ **Additional academic support and academic flexibility in examinations:**

University has specific strategies for the overall welfare of the students.

The university has taken innovative measures for supporting students to participate in sports and other extra-curricular activities. Flexibility is shown in computing credit of attendance and scheduling examinations, to the extent possible within the limit of existing norms for participation in sports and games. Grace marks are awarded to students for their achievement in sports to a maximum of 25%. Apart from this, special examinations are conducted for students who miss the university examinations while representing the university team and state team in the AIJU/national competitions.

The School of Physical Education and sports Science provides additional scholarships to the meritorious students, viz: Annual Sports Scholarship of Rs 3, 50, 000/- is distributed annually to the top150 sportspersons and Merit Award of Rs 7, 00,000/- is distributed annually as Merit Award for the Medal Winners in AIJU competitions at the rate of Rs. 10, 000 for Gold, Rs. 7,500 for Silver and Rs. 5,000/- for Bronze.

➤ **Special dietary requirements, sports uniform and materials:**

The university through School of Physical Education provides sports uniform and materials to all sports team members. Special dietary requirements are also provided to the students following a scientifically customized menu of the mess periodically and by giving an additional amount of Rs. 150/- per diem for students attending the university coaching camps.

Mahatma Gandhi University has a Stadium, situated on the campus, and is catering to the requirements of its sports persons. The Physical Education Department has setup a Fitness Center equipped with modern facilities. The

Basketball Court, Badminton Court, Football Court and Cricket pitch are the facilities available in the stadium.

➤ **Any other (Please specify):**

Mahatma Gandhi University Union organizes Youth festival annually to promote art and cultural talents among the students. It also aims at encouraging camaraderie and fellowship among young artists by giving them an opportunity to display their talents on a common platform. The date and venue of the festival are fixed by the Union in consultation with the Vice-Chancellor. There is a Steering cum Appellate Committee (SAC) to supervise and control the conduct of the programme.

Mahatma Gandhi University awards Grace Marks to the winners of Inter collegiate Youth Festival to encourage students who are proficient in cultural activities. Later, University extended the benefit to the winners of South Zone and National Inter University Youth Festivals too.

The Department of Life Long Learning and Extension is offering Yoga sessions and counseling for the students. The Department also organizes workshops/orientation programmes for teachers and students on various topics such as women counseling, campaign against ragging, career guidance, student magazine editing, ill effects of alcoholism etc.

The university also encourages the students' participation in NSS, NCC as well as those interested in business incubation and entrepreneurship, through grace marks, attendance make over and certification. Mahatma Gandhi University National Service Scheme has 205 units and more than 20,000 volunteers from the Arts and Science colleges of Kottayam, Ernakulam, Pathanamthitta, Idukki, Alappuzha Districts and from Mahatma Gandhi University Campus. The contributions by NSS include:

- Socio economic progress in 205 adopted villages under Unnat Bharat Abhiyan Campus Community partnership.
- Swachh Bharat Abhiyan programme covering all public utilities including municipalities, panchayats, railway stations, bus stations, Medical College, Kottayam, and Government hospitals in Kottayam, Ernakulam, Pathanamthitta and Idukki.
- E-Jalakam Training -Training to all first year undergraduate students of the university and orientation on social service named 'Vivaranidhi'.
- Digital India -National e-governance Division (NEGD) selected MG University NSS unit as the pilot university NSS to implement the scheme by empowering the needy.
- Organic farming was familiarised in 100 colleges and 50 model farms were established which resulted in large scale organic agricultural production. The beneficiaries include 2 lakh students and families.



- **Home for the Homeless Project-** Mahatma Gandhi University National Service Scheme constructed and donated 241 houses for the marginalized by mobilizing approximately Rs.3 crores.

Many educational and personality development programmes in the areas of environment conservation, health, nutrition and family welfare, skill development, Home for the Homeless, formation of village libraries, monsoon umbrella manufacturing, E-Gramam projects, manufacturing of Nirmal Soap, lotions, eco-friendly bags, promotion of computer literacy etc. were undertaken by the NSS.

The National Service Scheme of Mahatma Gandhi University has received many laurels from the central and state governments. The university has emerged as the lone Centre of higher learning in India to receive the coveted Indira Gandhi National Awards (twice for Programme Coordinator and once for the Best University NSS), twice in a row for the outstanding performance. In 2012-2013, the University NSS secured Indira Gandhi National appreciation award and in 2013-14 it secured Indira Gandhi National Award for the Best University and Best NSS Co-ordinator. During the year 2014-15, two NSS volunteers - Manoj George and Aishwarya Lakshmi bagged the Indira Gandhi National Service Scheme award for the best volunteers. All the four awards were presented by the Honourable President of India at a formal function held at the Durbar Hall of the Rashtrapathibhavan, New Delhi.

The percentage of Grace Marks for enhancing student's participation in sports and extracurricular activities are given below.

| Sl. No. | Items to which Grace Marks shall be awarded | Percentage of Grace Marks |
|----------------|--|----------------------------------|
| 1. | State level events in all Sports/Games/ Relay events (Inter-Districts competition – Individual/team/games event. Certificates from the State/District Association concerned) I Place II Place III Place | 5% 4% 3% |
| 2. | Inter Collegiate events (Individual/team events) I Place II Place III Place | 7% 5% 3% |
| 3. | Representing the State and Winning in Approved National Competition (Inter-State) I Place II Place III Place Representation | 12% 10% 7% 5% |
| 4. | Inter University South Zone/South West Zone I Place II Place III Place Participation Non participation | 10% 9% 8% 7% 6% |
| 5. | All India Inter-University Competition (Indian Universities/ Combined University team) I Place II Place III Place Representation/participation in Indian Combined University Team | 17% 14% 12% 10% |



| | | |
|-----|---|-----------------|
| | Non-Participation | 6% |
| 6. | Representing India in approved World competitions (Asian Games/Afro-Asian/Common Wealth/World University Games/Pre-Olympics/Olympics/ Universiad –Junior, Youth, Senior tournaments) | 25% |
| 7. | Blind students securing I/II/III places in Sports/Cultural/Youth Festival activities conducted by Kerala Federation of the Blind at College/University/Inter-University level | 5% |
| 8. | Inter Collegiate Youth Festival (Individual & Group events) I Place/A Grade/Best Actor/Actress II Place III Place (Limited to 5%) | 5% 4% 3% |
| 9. | South Zone Inter University Youth Festival conducted by AIU (Individual and Team events) I Place II Place III Place (Limited to 6%) | 6% 5% 4% |
| 10. | National Level Youth Festival (Individual and Team events) I Place II Place III Place Limited to 10 %) Accompanists of artists in Youth Festivals (Zonal and National Level only) will be given grace marks as stipulated under UO read as paper (4) above. | 10% 7% 5% |
| 11. | Deaf and Dumb candidates with disability of 40% or above / Hearing impaired candidate with disability of 70% or above / Mentally Retarded candidates (Irrespective of the degree of disability) (Medical Certificates from Medical Board is required) | 25% |

| | | | |
|----------------|---|-------------|----------------------|
| 12. | NSS volunteers | | |
| | NSS certificate holders | | 2% |
| | Attending National Camp with attendance certificates (NIC, National Youth Festival, Mega Summer Camp. Adventure Camp, Pre-RD Camp etc. with at least 5 days duration) | | 3% |
| | NSS State awardees and National Awardees | | |
| | Republic Day Camp (This camp should be of at least one month duration) | | 3% |
| | NSS Volunteers nominated by State | | 5% |
| | NSS Cell who have attended International Programmes | | |
| | (An NSS Volunteer is eligible to claim grace mark only from any one of the above 5 categories) | | 8% |
| 13. | NCC cadets | | |
| | Attending National Integration Camp | | 3% |
| | Attending Republic Day Camp / Parade | | 7% |
| | Basic Leadership Camp (TSC) / NS camp / Vayu Sainik / Independence Day Camp (Sports and Games at Delhi) | | 5% |
| | Certificate holders 'C' Certificate | | 4% |
| | 'B' Certificate | | 3% |
| | NCC Weightage/Equivalency Certificate issued | | 3% |
| | National level and other Centrally organized camps/YEP (Limited to 10%) | | 8% |
| 14 | Entrepreneurship and Business Incubation | | |
| | Stages | Grace Marks | Attendance (Max.20%) |
| 1 | Ideation Stage | 1% | 5% |
| 2 | Teaming and Company Formation | 1% | 5% |
| 3A or 3B | Prototype (Working Model) for Technology based firms | 2% | 10% |
| | Business Service of service based firms | 2% | 10% |



5.1.13 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare them for interview, and develop entrepreneurship skills?

Yes. The University has an Employment Information and Guidance Bureau functioning on the campus.

The objectives of the bureau are:

- To collect and disseminate career information.
- To highlight opportunities for higher studies.
- To disseminate information on scholarship, fellowships and financial assistance available in India and abroad.
- To render vocational guidance to students.
- To assist students for securing employment.
- To give information on various competitive examinations.
- To conduct career guidance classes, seminars and career talks and give guidance on group discussions to equip students for better performance and personality development.
- To register post graduate degree holders in the general stream and professional degree holders for employment assistance.
- To prepare employment information bulletin to help students in their educational and vocational planning.

The Bureau imparts training to students in communication skills and soft skill development besides providing information on job opportunities. The functions of the Guidance Bureau are monitored by an Advisory Committee under the Chairmanship of the Vice Chancellor. The Bureau is publishing a fortnightly Bulletin on job opportunities. It contains information about the various vacancies reported by the Staff Selection Commission, Union Public Service Commission, Kerala Public Service Commission and other recruitments boards.

The Guidance Bureau is giving individual guidance to candidates to choose professional courses and jobs by assessing the talents, interest, skill, aptitude, family background etc. Another objective of the Bureau is to equip the candidates to face interviews, group discussions. The Bureau also conducts coaching classes for the competitive examinations at the state and national levels which include UGC/CSIR NET examinations, various competitive examinations conducted by the Public Service Commission, bank tests, Staff Selection Commission tests, State Eligibility Test etc. Coaching classes are rendered to prepare the students belonging to minority, SC & ST communities for the UGC/CSIR NET examinations (with the financial assistance of the

UGC). The Bureau conducts one day career seminar in colleges to create awareness among the students on career opportunities and soft skill development. Seminars focus mainly on career trends in India and abroad, opportunities for higher studies, how to face an interview and also on personality development.

The university is committed to instilling entrepreneurship among students for which it has adopted a unique strategy to provide impetus to the scheme of Government of Kerala. The university has decided to award grace marks and attendance leverage to the students engaged in entrepreneurial tasks while studying. The student opting for the incentives under the scheme has to register in a Technology Business Incubator (TBI) concerned and the certification of the TBI in-charge along with the HOD/Director/Principal/Head of the institution shall forward to the Registrar of the university for Grace marks/attendance.

➤ **Placement and Training Cell:**

With a view to improving the employability of the students of Mahatma Gandhi University and also to provide an opportunity for placements, a Placement and Training Cell is instituted in Mahatma Gandhi University. The main objective of the Placement Cell at the University level is to work towards reducing the skill gap in students thus enabling them for immediate placements after their respective courses. The major objectives of this Placement and Training Cell are:

- ✓ Guiding students for placement in credible organizations.
- ✓ Conducting seminars, group discussions, and mock interviews as a part of career guidance and personality development.
- ✓ Coordinating the efforts of the students of the various colleges and departments in arranging domain specific training for them.
- ✓ Acting as an information centre for students in job opportunities and competitive examinations.

The major tasks thus enlisted to be performed by this Cell include:

1. Providing training to students (EMPLOYMENT READINESS FOUNDATION PROGRAMME)
2. Organising Recruitment drives in the campus.



5.1.14 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last six years).

| Name of the department | Name of Company (2010-2016) | Number of students recruited |
|---|--|------------------------------|
| School of Computer Sciences | Infosys(off-campus selection), Bangalore Polus Software, Pvt. Ltd. Technopark ,Trivandrum Suntech Solutions, Technopark, Trivandrum Hages Business Solutions, Technopark, Trivandrum | 17 |
| School of Letters | Doordarsan, Malayala Manorama, Mathrubhumi, Deshabhimani and Mangalam | 15 |
| School of Management and Business Studies | H R Johnson Inc.,Ernst & Young., KPMG MRF Tyres, Invest Net., Flytext. South Indian Bank, Muthoot Finance. Ltd WIPRO, ITC Ltd., XEROX, BILT R M Education,, Catholic Syrian Bank, Williams Lea., Encare Pharmaceuticals, pvt. Ltd., Sundaram Fastners Ltd., Eureka Forbes, Deloitte.,E & Y | 221 |
| School of Tourism Studies | Marvel Tours, Thomas Cook (I) Pvt Ltd.Southern Trails India Pvt. Ltd, Concord Exotic Voyages, TUI Travel PLC, Keralatravels.com, Yoko Tours, Kerala Holidays.com, Le Passage To India, PVR Cinemas,Phoenix Holidays, Kochi,Gradiaso Events & Entertainments Pvt. Ltd, Fair Mount Holidays. | 77 |
| School of Communication & Journalism | Mathrubhumi, Manorama, Aisanet , Reporter TV, Kairali Times Of India, Deccan chronicle, Surya TV | 198 |

5.1.15 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?

Yes. All Schools have their own alumni association. They have contributed to the development of the Schools and continue to be part of the academic stream. Contributions of Alumni Associations are varied viz: academic support, updating syllabi, enabling to keep abreast of the latest technologies, student mentoring, general body meetings, distribution of prizes to students for outstanding contribution in the departments, family get-togethers, honoring of teachers, technical seminars, special talks, cultural meets, placement support, internship support and philanthropy.

For example, the alumni of Computer Science organizes INTERFACE, an annual tech-fest, which will invariably include a technical seminar, All India Computing Competitions, cultural shows, publication of technical magazine as well as honouring of bright students. The School of Bioscience Alumni Association

conducts P.C. Raveendran Memorial Lecture to commemorate the late Dr. P. C. Raveendran, former faculty of the school. School of Environmental Sciences Alumni association conducts annual Dr. R. Satheesh Memorial Seminar to commemorate the late Dr. R. Satheesh, faculty of the school. The alumni of School of Letters actively contribute to the lectures in memory of Prof. G. Sankara Pillai, Prof. R Narendra Prasad and D. Vinayachandran, who were not only former faculty members of the School but also prominent men of letters.

The alumni of Department of Lifelong Learning and Extension have started several counselling and yoga centers for the benefit of the students as well as the general public. The alumni have also served as brand ambassadors to propagate organic farming and Yoga in campuses and in adopted villages. The alumni Association of the Yogic Sciences have adopted Idamalakkudy tribal panchayat for enhancing the awareness level of the 3000 odd inhabitants in 26 remote deep forest hamlets by setting up a Library there. Department of Life Long Learning and Extension, depends on the support of the Alumni for the conduct of programmes like Swachh Bharat Abhiyan and Unnat Bharat Abhiyan.

Prominent Alumni of Mahatma Gandhi University:

| School of Behavioural Sciences | | |
|---------------------------------------|---|--|
| Sl No. | Name | Current Position |
| 1. | Dr. Babu George | Director, Child Development Centre, Thiruvananthapuram |
| 2. | Dr. Elsheba Mathew | Associate Professor, Pushpagiri Medical college, Thiruvalla |
| 3. | Sr. Gilbert | Secretary, Trained Nurses Association of India, |
| 4. | Dr. Roshan Bijlee | Director, Composite Regional Centre, National Institute of Empowerment of Persons with Multiple Disabilities, Kozhikode |
| 5. | Dr. Sr. Glory | Principal, Nirmala Sadan College of Special Education, Muvattupuzha. |
| 6. | Dr. T. U. Sukumaran | Professor, Pushpagiri Medical college, Thiruvalla |
| 7. | Dr. Savida | Superintendent, Institute of Child Health, Govt. Medical College, Kottayam. |
| 8. | Dr. Valsamma Joseph | Principal, Govt. College of Nursing, Kottayam |
| 9. | Dr. Sreedevi T. R | Associate Professor, Govt. College of Nursing, Kottayam |
| School of Biosciences | | |
| 10. | Dr. Sunilkumar Puthenpurackal Narayanan | Institute of Biophysics and Physical Biochemistry and Centre of Magnetic Resonance in Chemistry and Biomedicine (CMRCB), University of |



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| | | Regensburg, 93040 Regensburg, Germany |
| 11. | Dr. C. Kesavachandran | Principal Scientist, Indian Institute of Toxicology Research, Lucknow-226001, India ckchandran@iitr.res.in |
| 12. | Dr. Sudarslal S. | Associate Professor at the School of Biotechnology, Amritha Vidhyapeedum University Amrithapuri, Kollam, sudarsla@am.amrita.edu |
| 13. | Dr. Krishnan, Manoj | Assistant Professor, Nus and Duke center, Singapore, : manoj.krishnan@duke-nus.edu.sg |
| 14. | Dr Jacob Biboy | The Centre for Bacterial Cell Biology, Newcastle University, United Kingdom jacob.biboy@ncl.ac.uk |
| 15. | Aneeshkumar. A.G | Faculty, Molecular Genetics Laboratory, National Institute of Immunology, New Delhi, aneesh@nii.ac.in |
| 16. | Dr. Srejith | Post-doctoral fellow, Diabetes Research Unit New York university medical center, New York city- New York 10016 |
| 17. | Dr. Rajendran | Associate Professor, Division of biochemistry and molecular biology, Central university of Kerala, Kasargod, Mobile No. 9061877113 |
| 18. | Dr. Jolly Paul | Regulatory Affairs Specialist, Vifore Phrma Zurich, Switzerland |
| 19. | Dr. Arun A Rauf | Assistant Professor, University of Kerala, Dept. of Biochemistry, Trivandrum Mobile 9447290954 |
| School of Chemical Sciences | | |
| 20. | PK Biju | Member of Parliament |
| 21. | Dr Suresh C Pillai | Senior R&D Manager in CREST and is responsible for managing the semiconductor nanotechnology group. |
| 22. | Prof. Dr. Aji P Mathew | Associate Professor in Materials Chemistry, Stockholm University, Sweden, aji.mathew@mmk.su.se |
| 23. | Prof. Dr. Z. Oommen, | Professor, Dept of Criminal Justice, Albany State University, Albany, USA. |
| 24. | Dr. Kuruvilla Joseph | Professor of Chemistry and Dean, IIST, Trivandrum |

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| 25. | Dr. Jyothi T Varkey | Senior Scientist, BASF, USA |
| 26. | Dr. Jayamol George | Chief Patent Officer, SABIC Bangalore |
| 27. | Prof. Dr. Unnikrishnan G | Department of Chemistry, NIT Calicut |
| 28. | Dr. Jacob John | Director, Laboratories, University of Massachusetts, USA |
| 29. | Dr. Maya John | Senior Scientist, CSIR, Port Elizabeth, South Africa |
| 30. | Dr .K.Sreekumar | Professor, CUSAT |
| 31. | Dr Benny K George | Group Director, USSC |
| 32. | Dr Roy Joseph | Scientist-G,SCTIMST |
| 33. | Dr Lissy Mol | Scientist-E,SCTIMST |
| 34. | Dr C.P Vinod | Scientist F, NCL, PUNE |
| 35. | Dr Subin Jacob | Professor, JNCSR |
| 36. | Dr Suresh C H | Principal Scientist and Head, Inorganic and Theoretical Chemistry NIIST, Trivandrum |
| 37. | Dr. Siby Varghese | Joint Director, RRII, Kottayam, Kerala |
| 38. | Dr. Lizy Mol PP | Senior Scientist, SCTIMST, Trivandrum |
| 39. | Dr. Aby Santhosh Aprem | Deputy Vice president-HLL Trivandrum |
| 40. | Dr. Rani Mol Stephen | Assistant Professor, Department of Chemistry, Devagiri College, Kozhikode |
| 41. | Dr. Johnson | Kodak , Senior Scientist, Rochester, USA |
| 42. | <i>Dr. Jyotishkumar P</i> | Expert Researcher, King Mongkut's University, Bangkok, Thailand |
| 43. | Pradeep Kumar | Department of chemistry, IIT Bombay. |
| 44. | Dr. Alex Koshy | Department of Chemistry and Physics Chicago State University, Chicago, Illinois, United States. |
| 45. | Dr. Beena Mathew | Director, School of Chemical Science Mahatma Gandhi University, Kottayam |
| 46. | Dr. Raju Francis | School of Chemical Science Mahatma Gandhi University, Kottayam |
| School of Computer Sciences | | |
| 47. | Rema Rajeshwari I.P.S. | Deputy Commissioner Of Police, Malkajgiri zone, Cyberabad(Hyd), Head-Cyb SHE TEAMS Malkajgiri, Hyderabad |
| 48. | Santhosh Pillai | Technical Program Manager, Microsoft, USA |
| 49. | Sunil Chakkappen | Consulting Member of Technical Staff, Oracle, San Francisco Bay Area, USA |
| 50. | Suresh Babu | Director, R &D Engineering, V M Ware, Bangalore |
| 51. | Dr Lekshmi S | Scientist E, Naval Physical and Oceanographic Laboratory, DRDO, Ministry of Defence, Thrikkakara,, Kochi |



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| 52. | Jeesmon Jacob | Senior Software Engineer, eBay Inc, USA |
| 53. | Vipin Das R | Senior Project Manager, Infosys Ltd. Trivandrum |
| 54. | Vipins Gopinath | Senior Software Design Engineer, Microsoft, USA |
| School of Environmental Sciences | | |
| 55. | Dr. PC Abhilash | Assistant Professor, BHU |
| 56. | Dr. Shijo Joseph | Scientist E, KFRI |
| 57. | Dr. Rakesh PS | Scientist, NIO, Mumbai |
| 58. | Dr. B. Ajayakumar | Geologist, Department of Mining and Geology, Kerala |
| 59. | Dr. Jayasooryan KK | Scientist, RRI, Kottayam |
| 60. | Dr. Joshy George, | Central Institute of Mining and Fuel Research, Dhanbad |
| 61. | Mr. Sreekandan Nair | Former Director, DoECC, Government of Kerala |
| 62. | Prof. Dr. Thomas Mathew | HOD, Dept. of Chemistry, Marthoma College, Thiruvalla |
| 63. | Dr.Sr. M.K Alphonsa | Principal, Morning Star College, Angamaly |
| 64. | Dr. P M Koshy | Associate Professor in Zoology, St. Stephens College, Pathanapuram |
| School of Gandhian Thought and Development Studies | | |
| 65. | Dr. Aby George | Regional Director of Tata Institute of Social Sciences |
| 66. | Dr. Siby K Joseph | Dean, Institute of Gandhian Studies, Wardha |
| 67. | Mr. Stephen George | Former Member of Legislative Assembly, Kerala |
| 68. | Dr. MP Mathai | Former Professor , School of Gandhian Thought and Development Studies, MG University & Visiting Professor, Gujarat Vidyapeet, Ahmadabad. |
| 69. | Venu Nair | National Award winner and Film Maker |
| 70. | Jayashankar Bhaskaran | Cataloging Officer in US Embassy, New Delhi |
| School of Indian Legal Thought | | |
| 71. | Dr. O K Narayanan | Member, Central Income Tax Appellate Tribunal |
| 72. | Abraham P George | Member, Central Income Tax Appellate Tribunal |
| 73. | Dr. Anitha Anoop | General Manager, Securities and Exchange Board of India, Bombay |
| 74. | Prof. Dr. Liza P Lukose | Professor, Indraprastha University, New Delhi |
| 75. | Prof. James J Nedumpara | Executive Director, Dept. of International Trade Laws, Jindal Global |

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| | | University, Haryana |
| 76. | Dr. Unni VR | Associate Professor & Head, IIT, Kharagpur |
| 77. | Dr. V Arya | Associate Professor, Indian Law Institute, New Delhi |
| 78. | Prof. Dr. Sanurani Paul | Professor, ICFAI University, Hyderabad |
| 79. | Dr. Sunil Gladson | Associate Professor, Dr. Ambedkar State Law University, Chennai |
| 80. | Dr. Anish V Pillai | Assistant Professor, Department of Law, Cochin university of Science and Technology |
| School of International Relations and Politics | | |
| 81. | B.S. Tirumeni IAS | District Collector, Wayanad, Kerala |
| 82. | Dr. A.K. Ramakrishnan | Professor, School of International Studies, JNU, New Delhi. |
| 83. | T. Rajah Balaji IPS | Central Bureau of Investigation (CBI), New Delhi |
| 84. | M.H. Ilias Hussein | Professor, Jamia Milia Islamia, New Delhi |
| 85. | Dr. Happymon Jacob | Associate Professor, JNU, New Delhi |
| 86. | M.S. Sreerekha | Assistant Professor of Women's Studies, University of Virginia, USA |
| 87. | Dr. Mathew Joseph | Associate Professor, Jamia Milia Islamia, New Delhi |
| 88. | Stanly Johny | Editor, Foreign Affairs, The Hindu |
| 89. | Dr. T.G. Suresh | Associate Professor, Centre for Political Studies, JNU, New Delhi. |
| 90. | Sebastian.N | School of Global Studies, Sikkim Central University, Sikkim |
| 91. | Dr. K.B. Usha | Associate Professor, Centre for Russian Studies, JNU, New Delhi |
| 92. | Anil G. Nair | Executive Editor, Rajya Sabha TV, New Delhi. |
| 93. | Dr. Binitha Thampi | Assistant Professor, IIT, Chennai |
| 94. | Dr. Thomas Joseph | Associate Professor, University of Baroda |
| 95. | Roopa Rachel Kuruvilla | Senior Chief Editor, Khaleej Times, Dubai |
| 96. | V M. Satheesh | Freelance Journalist, Dubai |
| 97. | Dean Kuriakose | Political Activist |
| 98. | Dr. Shahul Hameed | Chief of China Desk, Confederation of Indian Industry (CII) |
| 99. | Dr. Alice Jose | Principal, Alphonsa College, Palai |
| 100. | Dr. A.M Thomas | Director, School of International Relations and Politics, MG University |
| 101. | P T Chacko | Press Secretary to Former Kerala Chief Minister |
| 102. | Rekha Raj | Programme Manager- Women's Rights, |



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| | | Amnesty International India, Bangalore |
| 103. | Ta Minh Tuan | Direct General and Assistant to the Deputy Prime Minister, Government of Vietnam, Hanoi. |
| School of Letters | | |
| 104. | Sidhartha Siva | National award winning film maker |
| 105. | Dr. Sreenath Nair | Academic, Lincoln University, UK |
| 106. | Anwar Ali | Prominent poet |
| 107. | Dr. Manoj M B | Poet, academician |
| 108. | Dr. Manoj Kurur | Poet, academician |
| 109. | Dr. Ajay Sekher | Academician, translator and critic. |
| 110. | Ettumannur Kannan | Academic and Kathakali Artist |
| 111. | Dileesh Pothan | Theatre activist and film maker. |
| 112. | Unnikrishnan B. | Critic, film maker and activist. |
| School of Management and Business Studies | | |
| 113. | Dr Roshna Varghese | Assistant Professor, Rajagiri Institute of Management, Cochin |
| 114. | Sarita K P | LIC Divisions Officer, Ernakulum |
| 115. | Dileep K H | Deputy Manager, Axis Bank |
| 116. | Eby Elias | Manager, South Indian Bank |
| 117. | Shanavas | Deputy Collector, Kollam District |
| 118. | Dr Biju M K | Assistant Professor, M G University. |
| School of Pedagogical Sciences | | |
| 119. | Dr.Minimol Srambickal | Director, College Development Council, University of Kerala. |
| 120. | Dr.Amruth G. Kumar | Associate Professor, Central University, Kasaragod. |
| 121. | Dr.Anu G. S | Assistant Professor, Central University, Himachel Pradesh. |
| 122. | Dr.Subash, | Associate Professor, NCERT, New Delhi. |
| 123. | Dr.AncyVarughese | Project Officer, SCERT, Trivandrum |
| School of Physical Education & Sports | | |
| 124. | Anilda Thomas | Senior Superintendent, Forest Headquarters, Thiruvananthapuram (Olympian, Athletics) |
| 125. | O.P Jaisha | Senior Clerk, South Central Railway, (Olympian, Athletics) |
| 126. | Jinson Johnson | Havildar, Indian Army, (Olympian, Athletics) |
| 127. | Gopi T | Havildar, Indian Army, (Olympian, Athletics) |
| 128. | Sri. Deepu S | PET in Physical Education, Kendriya Vidyalaya |
| School of Pure and Applied Physics | | |
| 129. | Prof. Ajith Parameshwaran | Associate Professor, International Centre for Theoretical Sciences TIFR. |

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| | | (Detection of gravitational waves. Breakthrough 1million US\$ Prize in Fundamental Physics awarded to the LIGO Team for detection of gravitational waves) |
| 130. | Dr Rahul R Nair | Reader, Condensed Matter Physics Group, University of Manchester and a Royal Society University Research Fellow. (Member in the Research team of Prof Andre Geim who won the Nobel Prize in Physics for work with Graphene. He has been awarded the Moseley Medal & Prize for Early Career Researchers by the Institute of Physics) |
| 131. | Dr Vinu Vikram | Kavli Institute for Cosmological Physics as KICP Associate Fellow (Leader of the team at the Argonne National Laboratory which generated the Dark Matter Map of the Universe.) |
| 132. | Dr Gin Jose | Chair in Functional Materials at the University of Leeds (Developed a small device with low-powered lasers to measure blood glucose levels without penetrating the skin. It could give people a simpler, pain-free alternative to finger pricking.) |
| 133. | Dr Naslim Neelamkudan | EACOA Fellow at Academia Sinica Institute of Astronomy and Astrophysics (ASIAA) (Discovery of the most Zirconium rich Star till date.) |
| 134. | Dr Harsha S Kumar | Manitoba University, Canada |
| 135. | Dr G Ajith Kumar | Recipient of SPIE Green Photonics Award for work on "Infrared excited Yb: Er: Y ₂ O ₃ S phosphors with intense emission for lighting applications", Post-doctoral fellow, University of Texas, San Antonio, USA |
| 136. | Dr Pramod Gopinath | Director, International School of Photonics, Cochin University of Science & Technology |
| 137. | Joji Joykutty | Intellectual Property (IP) Analyst at General Electric Global Research Centre in Bangalore |
| 138. | Dr K N Narayanan Unni | Director, Photochemistry Laboratory NIIST (CSIR) Trivandrum |



| School of Social Sciences | | |
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| 139. | Dr. P. K. Michel Tharakan | Former Vice-Chancellor of Kannur University |
| 140. | Dr. Sujith Kumar Parayil | Assistant Professor, Centre for Media Studies, Jawaharlal Nehru University |
| 141. | Dr. Bindu Menon | Associate Professor, Lady Sriram College, New Delhi |
| 142. | Dr. Justin Mathew | Assistant Professor, Hansraj College, University of Delhi |
| 143. | Dr. Susan Thomas | Assistant Professor, Sree Shankaracharya Sanskrit University |
| 144. | Dr. Amruth M. | Scientist, Kerala Forest Research Institute, Peechi |
| 145. | Dr. Suresh M. | Assistant Professor, Tata Institute of Social Sciences, Bombay |
| 146. | Saji M Kadavil, | International Consultant, CSR and Business Development, New Delhi |
| 147. | Dr. J Devika | Associate Fellow, Centre for Development Studies, Thiruvananthapuram |
| 148. | Dr. Philip Mathew | Associate Professor, International School |
| School of Tourism Studies | | |
| 149. | Dr. Sindhu Joseph | Assistant Professor, GPM Government College, Manjeswar, Kasargode (Dist) |
| 150. | Anita T.A | School of Tourism Studies, MG University |
| 151. | Lijesh Jose | Emirates, Dubai |
| 152. | Yatheeshkumar | Branch Manager, Thomas Cook, Thrissur |
| 153. | Akhil K.S | Intersight Holidays, Bangalore |
| 154. | Rakhi C.R | Dolphin Line – Cargo and Freight Company, Dubai |
| Department of Lifelong Learning and Extension | | |
| 155. | Sri.M.R. Unni | Registrar ,M.G. University |
| 156. | G.Sreekumar, | Former P.R.O, M .G.University |
| 157. | T.M.Varghese, | Recipient of National award for the best teacher |
| 158. | Prof. Thomas Joseph | Former Secretary, Higher Education Council, Kerala |
| International and Interuniversity Centre for Nanoscience and Nanotechnology | | |
| 159. | Dr. Robin Augustine | National Postdoctoral Fellow, NIT Calicut |
| 160. | Aruni Shaji | Doctoral Fellow, IPF Dresden, Germany |
| 161. | Chithira Kartha | Frieveurg, Germany |
| 162. | Dr. Prasenjit Saha | IEST, Shibpur |

| Advanced Centre of Environmental Studies and Sustainable Development (ACCESSD) | | |
|---|-----------------------------|---|
| 163. | Dr. T.U. Sukumaran | Prof. of pediatrics, Pushpagiri Medical College, Thiruvalla. |
| 164. | Dr. Johntkutty J. Ozhukayil | Head of the Department of Physics, MES College, Nedumkadam |
| 165. | Dr. Koshy P.M | Associate Professor, St Stephens College, Pathanapuram |
| 166. | Dr. Shijo Joseph | Scientist, Kerala Forest Research Institute, Thrissur |
| Institute for Intensive Research in Basic Sciences (IIRBS) | | |
| 167. | Dellamol Sebastian | Ph.D Programme - USA (CUNY Fellowship, USA). |
| 168. | Anumol S | Ph.D Programme -Indian Institute of Science, Bangalore |
| 169. | AshnaShaji | Ph.D Programme - Indian Institute of Technology, Madras |
| 170. | Surya K | Ph.D Programme -Indian Institute of Technology, Mumbai |
| 171. | Sudheesh T. S | Ph.D Programme - Indian Institute of Technology, Mumbai |
| 172. | Manish Kumar | Ph.D Programme – Indian Institute of Science Education and Research, Mohali |
| University College of Engineering | | |
| 173. | Dr.Greeshma Nair | Associate Publisher-Chemistry Elsevier B.V., Radarweg 29, Amsterdam 1043 NX, Netherlands |
| 174. | Dr.Gijo Raj | Prof. Pance Naumov Group New York University Abu Dhabi (NYUAD) P.O. Box 129188, Saadiyat Island, Abu Dhabi, UAE |
| 175. | Mr. Prasanth R | Head - Rubber Division LanXess India Ltd |
| 176. | Mr.Jaison Jose | Huntsman International Pvt Ltd, Mumbai |
| 177. | Mrs. Jayalakshmi C.G | Scientist –G, DRDO, Pune |
| 178. | Mr. Job Antony | Assistant Manager, Renault-Nissan India Pvt Ltd, Chennai |
| 179. | Dr. Bini Varghese | Scientist- ISRO |
| 180. | Dr. Arjun Namboothiri | Scientist- ISRO |



| School of Technology & Applied Sciences | | |
|--|---------------------------|---|
| 181. | Dittin Andrews | Senior Scientist, CDAC, Bangalore. |
| 182. | Mahesh Balakrishnan | Project Manager, UST Global, California. |
| 183. | Sankaran Bhatathiripad | Lead Software engineer Thomson Reuters, New York. |
| 184. | Parameswaran Namboothiri | Scientist C, CDAC, Trivandrum |
| 185. | Mahesh Mahadevan | Cyber Security Consultant, Sultanate of Oman. |
| 186. | Jyothi Mavila | Senior Project Manager, Microsoft Corporation, Vancouver, British Colombia |
| 187. | Dr. Sreethara Sharma | Scientist (R&D), Tata chemicals Ltd., UK |
| 188. | Dr. Abhilash Kumar K.R. | Rubber Technologist, Dunlop Aircraft Tyres, UK |
| 189. | Prasad P. | Team Leader, Infosys, Bangalore. |
| 190. | Jojan V.L | Senior Manager (Technical) Alliance Tyres Ltd., Israel |
| School of Applied Life Sciences | | |
| 191. | Dr.T.G.Manojkumar, | Asst. Director, Marine Products Export Development Authority, Kochi |
| 192. | Dr. P.S.Sivaprasad, | Society for Assistance to fisher women Dept. of Fisheries, Govt. of Kerala |
| 193. | Dr.K.Jayalekshmi | Asst.Professor, Kerala University of Fisheries and Oceans, Kochi |
| 194. | Dr.J.Jean Jose | Asst.Professor,Dept.Zoology, S.G.College, Kottarakkara, Kerala |
| 195. | Dr.Eapen Jacob | Asst.Professor, Dept.Zoology, Women's College ,Trivandrum |
| 196. | Dr.B.O.Prasad | Asst.Professor, Dept. of Zoology. ,Kannur University |
| 197. | Dr.Shilly Elizabeth David | Asst.Professor, Dept of Zoology, Mar Thoma College, Tiruvalla |
| School of Medical Education | | |
| 198. | Sudhish Manilal | Medical Record Officer, KIMS Alshifa Hospital |
| 199. | Mahesh Madhavan | Head of Biomedical Engineering (Health Technology Management), Aster MIMS Hospital, Calicut |

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| 200. | Arunkumar | Quality and Process improvement Associate, Access Health International, Vijayawada |
| 201. | Lincy Margaret | Quality Assurance Officer, National Health Mission, Kerala |
| 202. | Shilpa Raju | Medical Record Technician, Muthoot Medical Centre, Kozhencherry |
| 203. | Mobin Mathew | Medical Records Executive at Rajagiri Hospital Kochi |
| Mahatma Gandhi University Colleges of Teacher Education | | |
| 204. | Sundaran Konadan | Assistant Manager, Life Insurance Corporation of India, Kalpetta |
| 205. | Shine | Deputy Director of Education, Govt. of Kerala |
| 206. | Saju Varghese | Circle Inspector of Police, Pampady |
| 207. | Arshad A | Circle Inspector of Police, Mullapperiyar |
| 208. | Arun Zachariah | Assistant Director, IT department , Govt. of Kerala |
| Department of Library and Information Sciences | | |
| 209. | Santhosh K N | Assistant Professor, St. Peters College, Kolencherry |
| 210. | Ajesh E S | Assistant Librarian, Marian International Institute of Management |
| 211. | Gayathri Mohan | Library Assistant VSSC, Thiruvananthapuram |
| 212. | Pooja Lakshmi K K | Pushpagiri Institute of Medical Sciences & Research Centre, Thiruvalla |
| School of Communication and Journalism | | |
| 213. | Dr. Priyamol | IIS |
| 214. | T G Biju | Times of India |
| 215. | Biju Govind | The Hindu |
| 216. | Soyesh H | The Hindu |
| 217. | Prasanth Menon | Times of India |
| 218. | Shailesh Viswanath Menon | Times of India |
| 219. | Anto T | Times of India |
| 220. | Nishad VH | India Today |



5.1.16 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?

Yes. A Student Grievance Redressal Cell is functioning in the university with the Vice-chancellor as the chairperson. All the schools have units of the grievance redress mechanism supervised by the Heads of Departments. Decisions on grievances and complaints are taken in the meeting of Board of Adjudication of Students Grievances (BASG) headed by the Vice Chancellor.

The grievances of the students are normally settled amicably, without the academic routines of the School or University being affected. Power failure, voltage fluctuation, connectivity, mosquito and stray dog menace are some of the grievances reported.

5.1.17 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing cell and mechanism to deal with issues related to sexual harassment? Give details.

Gender sensitization programs are being conducted in all departments to avoid sexual harassment. The curriculum of the PG Programme of the School of Pedagogical Sciences has areas like women empowerment and women issues. School of Letters offers an elective course titled “Women, Society and Literature.” All the Schools observe gender sensitization programmes like the International Women’s Day (8th March) International Day of Girl Child (11th October) and Malala Day etc. The University has instituted a permanent Cell to combat sexual harassment.

5.1.18 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?

Yes. There is an anti-ragging committee in the university with the Vice Chancellor as Chairman. There are school wise anti-ragging committees functioning apart from the university level one. At the school level, the Head of the Department/Director is in charge and the faculty members and student representatives are part of the committee. The first year students are informed about the committee and they can report any ragging issues directly to the committee or through the faculty in charge. No cases have been reported so far from the schools or from affiliated institutions. In compliance with the directions of the Hon’ble Supreme Court of India, anti-ragging campaign was conducted in the campus and in affiliated institutions.

5.1.19 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?

University ensures the cooperation of all stakeholders to ensure overall development of its students. The Syndicate and Senate have student representatives. The faculty members contribute to the overall development of

the university through their academic contributions and their participation in the various academic bodies. The alumni of the departments contribute to the welfare of the present students by their constant interaction through alumni meetings. The feedback from parents is also sought in Schools/Centres. All these enable the university to plan and reformulate its academic objectives and activities. The university also has active industrial linkage to ensure holistic development.

5.1.20 How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

Women students are encouraged to take part in sports competitions and cultural activities. The School of Physical Education and Sports Sciences takes care of the participation of women students in intra- and inter-institutional sports competitions. Department of Students Services and National Service Scheme take care of the cultural activities.

The details of the achievements of Women students in co-curricular, extracurricular and cultural activities at different levels are as follows

| WOMEN ARJUNA AWARDEES OF MAHATMA GANDHI UNIVERSITY | | |
|---|------------------------------------|------|
| 1 | Smt. Preeja Sreedharan - Athletics | 2011 |
| 2 | Smt. Geethu Anna Jose - Basketball | 2014 |

| OLYMPIANS OF MAHATMA GANDHI UNIVERSITY | | |
|---|--------------------------------|------|
| 1 | Smt. Anilda Thomas - Athletics | 2016 |
| 2 | Smt. O.P. Jaisha - Athletics | 2016 |



| INTERNATIONAL WOMEN SPORTS PERSONS OF THE UNIVERSITY | | | |
|---|-------------------------|--------------|------|
| 1 | Smt. Anu R | Athletics | 2015 |
| 2 | Smt. Saneesha E P | Athletics | 2015 |
| 3 | Smt. Poojamol K S | Basketball | 2014 |
| 4 | Smt. Vinaya Joseph | Basketball | 2014 |
| 5 | Smt. Rekha S | Volleyball | 2013 |
| 6 | Smt. Renjini C.A | Handball | 2013 |
| 7 | Smt. Aswathy E | Volleyball | 2012 |
| 8 | Smt. Thanu Mathew | Handball | 2012 |
| 9 | Smt. Maria Ronny | Table Tennis | 2011 |
| 10 | Smt. Reshmi Bose | Athletics | 2010 |
| 11 | Smt. Megha Merin Mathew | Badminton | 2010 |
| 12 | Smt. Fathima Ruksana | Volleyball | 2010 |
| 13 | Smt. Smisha K.S. | Volleyball | 2010 |

| PARTICIPATION AT WORLD UNIVERSITY CHAMPIONSHIP | | | |
|---|-------------------------|-----------|------|
| 1 | Smt. Megah Merin Mathew | Badminton | 2013 |
| 2 | Smt. Arathy Sara Sunil | Badminton | 2013 |
| 3 | Smt. Sheena P.V | Athletics | 2013 |

The Indira Gandhi National Service Scheme award for the Best Volunteer for the year 2014-15 was achieved by Aishwarya Lekshmi .R.

According to the norms of Mahatma Gandhi University Arts festivals, there are about 65 cultural events in which students compete. Out of these items, 4 events are exclusively meant for participation of girls (Mohiniyattam, Thiruvathirakali, Oppana and Margam kali).

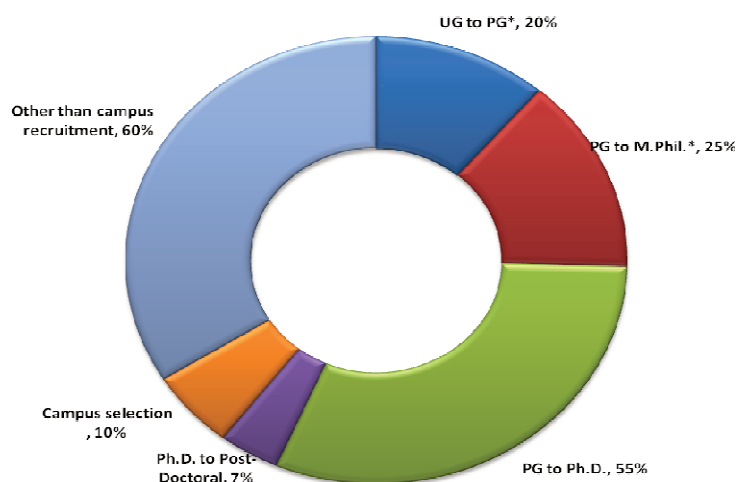
5.2 Student Progression

5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last six years.

Student Strength 1443

| Programme | % progression |
|---------------------------------|---------------|
| UG to PG* | 20% |
| PG to M.Phil * | 25% |
| PG to Ph.D | 55 % |
| Ph.D to Post-Doctoral | 7% |
| Employed | |
| • Campus selection | 10% |
| • Other than campus recruitment | 60% |

About 60% of the students of the Science Schools are opting for Ph.D after their PG programme. Students of the Schools like Management and Business Studies, Computer Sciences, Tourism Studies etc. are opting for employment after their studies.



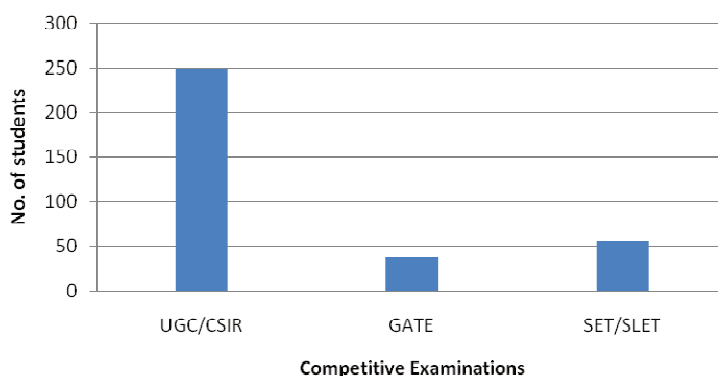
Student Progression – Programme wise data

5.2.2 What is the programme-wise completion rate during the time span stipulated by the university?

More than 97% of students admitted to the PG and M.Phil complete their course successfully. The completion rate of Ph.D programme is 99%.

5.2.3 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?

About 24% of the PG students have cleared the National competitive tests successfully. For the last five years, a total of 249 students have cleared the UGC-CSIR NET, 38 students have scored the GATE, 55 students have cleared the SLET/SET tests.



Number of students who have cleared the National level tests during the last five years.

5.2.4. Provide category-wise details regarding the number of Ph.D/ D.Litt. /D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.

Grand Total of PhD during the past five years

| | | |
|-------------|---|-----|
| Submitted | - | 869 |
| Accepted | - | 860 |
| Resubmitted | - | 09 |
| Rejected | - | Nil |

| Subject/Faculty | Number of PhD Theses | | |
|-------------------------|----------------------|-------------|----------|
| | Awarded/Submitted | Resubmitted | Rejected |
| Arabic | 6 | | |
| Behavioral Sciences | 15 | | |
| Biochemistry | 37 | 1 | |
| Biotechnology | 16 | | |
| Botany | 28 | | |
| Chemistry | 63 | 2 | |
| Commerce | 79 | | |
| Computer Science | 14 | 1 | |
| Economics | 48 | | |
| Education | 65 | | |
| English | 32 | | |
| Environmental Sciences | 34 | 2 | |
| Fine Arts | 2 | | |
| Fishery Science | 2 | | |
| Gandhian Studies | 14 | 1 | |
| Hindi | 40 | | |
| History | 7 | | |
| Home Science | 7 | | |
| Immunology | 3 | | |
| International Relations | 16 | | |
| Journalism | 1 | | |
| Law | 9 | | |
| Malayalam | 60 | | |
| Management Studies | 18 | | |



| | | | |
|--|------------|---|---|
| Mathematics | 26 | | |
| Microbiology | 9 | | |
| Nano Science and Nanotechnology | 1 | | |
| Nursing | 1 | | |
| Pharmacy | 3 | | |
| Physical Education | 14 | | |
| Physics | 51 | 2 | |
| Psychology | 5 | | |
| Philosophy | 3 | | |
| Physiology | 1 | | |
| Political Science | 5 | | |
| Public Health | 1 | | |
| Sanskrit | 9 | | |
| Social Science | 59 | | |
| Sociology | 4 | | |
| Social Work | 14 | | |
| Special Education | 4 | | |
| Statistics | 15 | | |
| Syriac | 3 | | |
| Theatre Arts | 1 | | |
| Zoology | 24 | | |
| Total | 869 | 9 | - |

List of recipients of Honorary Degree 2010-2016 (conferred by Mahatma Gandhi University)

Mahatma Gandhi University honored the following eminent personalities by conferring D.Litt and D.Sc during the last five years.

| Sl No. | Name | Area of Excellence | Degree Conferred | Date of Award |
|---------------|-------------------------|---------------------------|-------------------------|--------------------------------|
| 1 | A. Ramachandran | Art | D.Litt | 20 th November 2013 |
| 2 | N. Ram | Journalism | D.Litt | 20 th November 2013 |
| 3 | Late V. Dakshinamoorthy | Music | D.Litt | 20 th November 2013 |
| 4 | C.N.R Rao | Science | D.Sc. | 20 th November 2013 |
| 5 | K. Radhakrishnan | Science | D.Sc. | 21 st April 2015 |

5.3. Student Participation and Activities

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

The following is the list of sports items available for students of the University

| | |
|---|---------------------|
| Athletics | Ball Badminton |
| Badminton | Basketball |
| Chess | Cross country Race |
| Cycling | Football |
| Half Marathon & walking | Handball |
| Hockey | Judo |
| Kabaddi | Kho Kho |
| Softball | Swimming/Water polo |
| Table Tennis | Tennis |
| Volleyball | Weight Lifting |
| Best Physique | Wrestling |
| Cricket | Power lifting |
| Baseball | Netball |
| Yoga | Taekwondo |
| <i>Other facilities include:</i> | |
| Indoor Badminton Court | Yoga |
| Fitness Centers for Men and Women | |



Programme Calendar of the School of Physical Education and Sports Science 2011-12

| Sl. No | EVENT | DATE OF I.C TOURNAMENTS | VENUE | No of Students Participated |
|---------------|------------------------------|--------------------------------|------------------------------|------------------------------------|
| 1 | Power Lifting(M&W) | Sep 7 | U. C. College, Aluva | 85 |
| 2 | Volleyball(M&W) | Sep 10-12 | S.H.College, Thevara | 300 |
| 3 | Basket Ball(M&W) | Sep 14,15 | BPC College,Piravom | 350 |
| 4 | Wrestling (M&W) | Sep 16 | Maharajas College, Ernakulam | 60 |
| 5 | Handball(W& M) | Sep19,20 | Maharajas College, Ernakulam | 175 |
| 6 | Hockey (M&W) | Sep 21,22 | CMS College, Kottayam | 400 |
| 7 | Tennis (M&W) | Oct 8 | MA, Kothamangalam | 65 |
| 8 | Kabaddi(M&W) | Oct15,16 | K.G.Pampady | 116 |
| 9 | Kho-Kho (M&W) | Oct 19,20 | MA, Kothamangalam | 200 |
| 10 | Badminton(M&W) | Oct 22,23 | MA, Kothamangalam | 110 |
| 11 | Chess(M&W) | Oct 28,29 | K.G.Pampady | 75 |
| 12 | Cross Country(M&W) | Nov 3 | MA, Kothamangalam | 300 |
| 13 | Swimming and WaterPolo | Nov 8,9 | MA, Kothamangalam | 250 |
| 14 | Judo(M&W) | 15 Nov | S. S. College Kalady | 110 |
| 15 | Baseball (M&W) | Dec. 1 , 2,3 | K.E.College, Mannanam | 180 |
| 16 | Cycling (M&W) | Dec, 4 | Assumption Changanachery | 50 |
| 17 | Weightlifting/ Best Physique | Dec 16 | SVRNSS College, Vazhoor | 115 |
| 18 | Ball Badminton (M&W) | Dec 20 ,21 | Marthoma.College, Tiruvalla | 220 |
| 19 | Softball(M&W) | Jan 2 - 4 | Marthoma College, Tiruvalla | 350 |
| 20 | Yoga (M&W) | Jan 7 | University Stadium | 90 |
| 21 | Netball (M&W) | Jan 9 - 10 | Alphonsa Colege.Pala | 280 |
| 22 | Taekwondo(M&W) | Jan13 , 14 | U.C.College , Aluva | 90 |
| 23 | Half Marathon(M&W) | Jan 27 | MA, Kothamangalam | 90 |
| 24 | Athletics(M&W) | Jan 28,29 | S. S. College Kalady | 870 |
| 25 | Cricket (M&W) | Feb 3 - 7 | Baselius College, Kottayam | 600 |
| 26 | Table Tennis(M&W) | Feb 9 | Chinmaya Vidyapeet Ernakulam | 100 |
| 27 | Football (M&W) | Feb 10 - 11 | Newman College, Thodupuzha | 825 |
| 28 | Fencing(M&W) | Feb 13 | University Stadium | 110 |

SPORTS CALENDAR, 2012-2013

| SL. No | EVENT | DATE OF I.C TOURNAMENTS | VENUE | No of Students Participated |
|--------|------------------------------|-------------------------|-----------------------------------|-----------------------------|
| 1 | Wrestling (M&W) | Sep 16 | Maharajas College, Ernakulam | 75 |
| 2 | Handball(W& M) | Sep 19,20 | Maharajas College, Ernakulam | 200 |
| 3 | Hockey (M&W) | S 21,22 | CMS College, Kottayam | 420 |
| 4 | Tennis (M&W) | Oct 8 | MA, Kothamangalam | 90 |
| 5 | Kabaddi(M&W) | Oct15,16 | K. G. Pampady | 175 |
| 6 | Kho-Kho (M&W) | Oct 19,20 | MA, Kothamangalam | 240 |
| 7 | Half Marathon(M&W) | Oct 27 | MA, Kothamangalam | 95 |
| 8 | Athletics(M&W) | Oct 28,29 | S. S. College, Kalady | 900 |
| 9 | Cricket (M&W) | Nov 3 - 7 | Baselius College, Kottayam | 750 |
| 10 | Table Tennis(M&W) | Nov 9 | Chinmaya Vidyapeet Ernakulam | 120 |
| 11 | Football (M&W) | Nov 9 - 11 | Newman College, Thodupuzha | 900 |
| 12 | Fencing(M&W) | Nov13 | University Stadium | 115 |
| 13 | Weightlifting/ Best Physique | Nov 16 | SVRNSS College, Vazhoor | 130 |
| 14 | Ball Badminton (M&W) | Nov 20 ,21 | Marthoma College, Tiruvalla | 260 |
| 15 | Softball(M&W) | Dec 2 - 4 | Marthoma College, Tiruvalla | 400 |
| 16 | Yoga (M&W) | Dec 7 | University Stadium | 95 |
| 17 | Netball (M&W) | Dec 9 - 10 | Alphonsa College, Pala | 300 |
| 18 | Taekwondo(M&W) | Dec13 , 14 | U. C. College, Aluva | 90 |
| 19 | Badminton(M&W) | Dec 17,18 | MA College, Kothamangalam | 120 |
| 20 | Chess(M&W) | Dec 19,20 | K. G. College, Pampady | 95 |
| 21 | Cross Country(M&W) | Jan 3 | MA College, Kothamangalam | 300 |
| 22 | Swimming and WaterPolo | Jan 8,9 | MA College, Kothamangalam | 300 |
| 23 | Judo(M&W) | Jan 10 | S. S. College Kalady | 120 |
| 24 | Baseball (M&W) | Jan 15,16 | K. E. College, Mannanam | 190 |
| 25 | Cycling (M&W) | Jan 22,23 | Assumption College, Changanachery | 70 |
| 26 | Power Lifting(M&W) | Jan 30 | U. C. College, Aluva | 110 |
| 27 | Volleyball(M&W) | Feb10-12 | S. H. College, Thevara | 300 |
| 28 | Basket Ball(M&W) | Feb 14,15 | BPC College, Piravom | 400 |



SPORTS CALENDAR, 2013-2014

| Sl. No | EVENT | DATE OF I.C TOURNAMENTS | VENUE | No of Students Participated |
|--------|------------------------------|-------------------------|----------------------------------|-----------------------------|
| 1 | Ball Badminton (M&W) | Sep 20, 21 | Marthoma College, Tiruvalla | 280 |
| 2 | Softball(M&W) | Oct 2 - 4 | Marthoma College, Tiruvalla | 420 |
| 3 | Yoga (M&W) | Oct 7 | University Stadium | 100 |
| 4 | Netball (M&W) | Oct 9 - 10 | Alphonsa College, Pala | 330 |
| 5 | Taekwondo(M&W) | Nov 1 ,2 | U. C. College, Aluva | 105 |
| 6 | Badminton(M&W) | Nov 8,9 | MA College, Kothamangalam | 135 |
| 7 | Chess(M&W) | Nov 19,20 | K. G. College, Pampady. | 105 |
| 8 | Cross Country(M&W) | Nov 22 | M. A. College, Kothamangalam | 310 |
| 9 | Swimming and Water Polo | Nov 25,26 | MA College, Kothamangalam | 350 |
| 10 | Judo(M&W) | Nov 29,30 | S. S. College Kalady | 130 |
| 11 | Baseball (M&W) | Dec 1,2 | K. E. College, Mannanam | 220 |
| 12 | Cycling (M&W) | Dec 3 | Assumption College Changanachery | 95 |
| 13 | Power Lifting(M&W) | Dec 8, 9 | U. C. College, Aluva | 130 |
| 14 | Volleyball(M&W) | Dec 10 | S.H.College, Thevara | 350 |
| 15 | Basket Ball(M&W) | Dec 15,16 | BPC College, Piravom | 450 |
| 16 | Weightlifting/ Best Physique | Dec 17,18 | SVRNSS College, Vazhoor | 150 |
| 17 | Kho-Kho (M&W) | Dec 19,20 | MA College, Kothamangalam | 260 |
| 18 | Half Marathon(M&W) | Dec 21 | MA College, Kothamangalam | 105 |
| 19 | Athletics(M&W) | Dec 22,23 | S. S. College, Kalady | 950 |
| 20 | Cricket (M&W) | Jan 3 | Baselius College, Kottayam | 810 |
| 21 | Table Tennis(M&W) | Jan 8, 9 | Chinmaya Vidyapeet Ernakulam | 130 |
| 22 | Football (M&W) | Jan10 | Newman College, Thodupuzha | 930 |
| 23 | Fencing(M&W) | Jan 15,16 | University Stadium | 130 |
| 24 | Wrestling (M&W) | Jan 17 | Maharaja's College, Ernakulam | 85 |
| 25 | Handball(W& M) | Jan 19,20 | Maharaja's College, Ernakulam | 220 |
| 26 | Hockey (M&W) | Jan 21,22 | CMS College, Kottayam | 450 |
| 27 | Tennis (M&W) | Feb 8 | MA College, Kothamangalam | 105 |
| 28 | Kabaddi(M&W) | Feb 15,16 | K. G. Pampady | 200 |

SPORTS CALENDAR, 2014-2015

| Sl. No | EVENT | DATE OF I.C. TOURNAMENTS | VENUE | No of Students Participated |
|--------|------------------------------|--------------------------|----------------------------------|-----------------------------|
| 1 | Judo(M&W) | Nov 29,30 | S. S. College, Kalady | 150 |
| 2 | Baseball (M&W) | Dec 1,2 | K.E. College, Mannanam | 220 |
| 3 | Cycling (M&W) | Dec 3 | Assumption College Changanachery | 100 |
| 4 | Power Lifting(M&W) | Dec 8,9 | U. C. College, Aluva | 125 |
| 5 | Volleyball(M&W) | Dec 10 | S. H. College, Thevara | 380 |
| 6 | Basket Ball(M&W) | Dec 15,16 | BPC College, Piravom | 450 |
| 7 | Ball Badminton (M&W) | Sep 20 ,21 | Marthoma College, Tiruvalla | 290 |
| 8 | Softball(M&W) | Oct 2 - 4 | Marthoma College, Tiruvalla | 450 |
| 9 | Yoga (M&W) | Oct 7 | University Stadium | 120 |
| 10 | Netball (M&W) | Oct 9 - 10 | Alphonsa College, Pala | 350 |
| 11 | Taekwondo(M&W) | Nov 1 ,2 | U. C. College, Aluva | 120 |
| 12 | Badminton(M&W) | Nov 8,9 | MA College, Kothamangalam | 150 |
| 13 | Chess(M&W) | Nov 19,20 | K. G. College, Pampady | 110 |
| 14 | Cross Country(M&W) | Nov 22 | MA College, Kothamangalam | 330 |
| 15 | Swimming and Water Polo | Nov 25,26 | MA College, Kothamangalam | 375 |
| 16 | Weightlifting/ Best Physique | Dec 17,18 | SVRNSS College, Vazhoor | 160 |
| 17 | Kho-Kho (M&W) | Dec 19,20 | MA College, Kothamangalam | 270 |
| 18 | Half Marathon(M&W) | Dec 21 | MA College, Kothamangalam | 130 |
| 19 | Athletics(M&W) | Dec 22,23 | S. S. College, Kalady | 960 |
| 20 | Cricket (M&W) | Jan 3 | Baselius College, Kottayam | 800 |
| 21 | Table Tennis(M&W) | Jan 8,9 | Chinmaya Vidyapeet Ernakulam | 140 |
| 22 | Football (M&W) | Jan10 | Newman College, Thodupuzha | 1000 |
| 23 | Fencing(M&W) | Jan 15,16 | University Stadium | 140 |
| 24 | Wrestling (M&W) | Jan 17 | Maharajas College, Ernakulam | 90 |
| 25 | Handball(W& M) | Jan 19, 20 | Maharajas College, Ernakulam | 250 |
| 26 | Hockey (M&W) | Jan 21,22 | CMS College, Kottayam | 550 |
| 27 | Tennis (M&W) | Feb 8 | MA College, Kothamangalam | 130 |
| 28 | Kabaddi(M&W) | Feb 15,16 | K. G. College, Pampady | 200 |



SPORTS CALENDAR, 2015-2016

| Sl. No | EVENT | DATE OF LC TOURNAMENTS | VENUE | No of Students Participated |
|--------|------------------------------|------------------------|----------------------------------|-----------------------------|
| 1 | Handball(W& M) | Sep19,20 | Maharajas College, Ernakulam | 275 |
| 2 | Hockey (M&W) | Sep 21,22 | CMS College, Kottayam | 480 |
| 3 | Tennis (M&W) | Oct 8 | MA College, Kothamangalam | 140 |
| 4 | Kabaddi(M&W) | Oct 10,11 | K. G. Pampady | 210 |
| 5 | Swimming and WaterPolo | Nov 2,3 | MA College, Kothamangalam | 350 |
| 6 | Weightlifting/ Best Physique | Nov 8, 9 | SVRNSS College, Vazhoor | 160 |
| 7 | Kho-Kho (M&W) | Nov 11,12 | MA College, Kothamangalam | 280 |
| 8 | Half Marathon(M&W) | Nov 14 | MA College, Kothamangalam | 135 |
| 9 | Athletics(M&W) | Nov 15,16 | S. S. College Kalady | 1000 |
| 10 | Cricket (M&W) | Nov 19 to 22 | Baselius College, Kottayam | 850 |
| 11 | Table Tennis(M&W) | Nov 23 | Chinmaya Vidyapeet Ernakulam | 150 |
| 12 | Football (M&W) | Nov 28 to 30 | Newman College, Thodupuzha | 1100 |
| 13 | Fencing(M&W) | Dec 1 | University Stadium | 145 |
| 14 | Wrestling (M&W) | Dec 3 | Maharajas College, Ernakulam | 105 |
| 15 | Netball (M&W) | Dec 9 - 10 | Alphonsa College, Pala | 350 |
| 16 | Taekwondo(M&W) | Dec 13,14 | U.C.College , Aluva | 110 |
| 17 | Badminton(M&W) | Dec. 15,16 | MA College, Kothamangalam | 160 |
| 18 | Chess(M&W) | Dec 17 | K. G. College Pampady | 120 |
| 19 | Cross Country(M&W) | Dec 18 | MA College, Kothamangalam | 400 |
| 20 | Judo(M&W) | Dec 20 | S. S. College Kalady | 250 |
| 21 | Baseball (M&W) | Jan 3,4 | K.E.College, Mannanam | 400 |
| 22 | Cycling (M&W) | Jan 5 | Assumption College Changanachery | 130 |
| 23 | Power Lifting(M&W) | Jan 6,7 | U. C. College, Aluva | 150 |
| 24 | Volleyball(M&W) | Jan 8,9 | S. H. College, Thevara | 400 |
| 25 | Basket Ball(M&W) | Jan15,16 | BPC College, Piravom | 500 |
| 26 | Ball Badminton (M&W) | Jan 20 ,21 | Marthoma College, Tiruvalla | 300 |
| 27 | Softball(M&W) | Feb 2 - 4 | Marthoma College, Tiruvalla | 420 |
| 28 | Yoga (M&W) | Feb 7 | University Stadium | 125 |

CULTURAL ACTIVITIES

The following are the cultural activities available to the students of the various schools.

- BIOFEST- Annual festival by students of School of Bio Sciences.
- Budha Sangamam- Weekly interactive programme on Arts and Culture- School of Letters.
- CUTE- Weekly student meeting at School of Tourism Studies.
- CLENS- Club of Environment Students (Thursday Club) meets every Thursdays to discuss various environmental issues.
- SWADU. - Annual cooking festival for students.
- CHEMFEST- Annual cultural festival by students of School of Chemical Sciences.
- MURDANIA- Annual cultural festival by students of School of Environmental Sciences.
- Regale - Annual cultural festival by students of School of Computer Sciences.
- BeSTA DAY- Annual cultural festival by students of School of Behavioural Sciences.
- Parasparyam-Culture fest of the Department of Life Long Learning and Extension for the Elderl-y.
- Nano Day - Annual cultural festival by students of International interuniversity centre for Nanoscience and nanotechnology.
- IR Day- Students of the School of International Relations and Politics have an annual cultural fest which also included the alumni of the school.

DEPARTMENT OF STUDENT SERVICES

PROGRAMME CALENDER 2013 – 2016

| Sl No. | Event | Venue | Date | No. of Participants |
|--------|--|--------------------------------|-------------------|---------------------|
| 1 | Best College Magazine Competition 2013 | Department of Student Services | February 2013 | 15 |
| 2 | Cash Award to winners of Youth Festivals | Kottayam | March 2013 | |
| 3 | South Asian University FEST 2013 | Punjabi University, Patiala | February 2013 | 1 |
| 4 | Inter-Collegiate Quiz Competition | MG University Assembly Hall | 08 February 2013. | 50 |



2014

| Sl No. | Event | Venue | Date | No. of Participants |
|--------|---|---------------------------------------|----------------------|---------------------|
| 1 | 29 th National Inter University Youth Festival | Kurukshethra University, Kurukshethra | 18-22 February, 2014 | 18 |
| 2 | 30 th South Zone Inter University Youth Festival | Tumkur University, Tumkur , Karnataka | 8-12 December, 2014. | 40 |
| 3 | Best College Magazine Competition 2013-14 | Department of Student Services | January 2015 | 20 |
| 4 | Cash Award to winners of Youth Festivals | St. Teresa's College, Ernakulam | March 2015 | 10 |

2015

| Sl No. | Event | Venue | Date | No. of Participants |
|--------|---|---|---|---------------------|
| 1 | South Zone Inter University Youth Festival | Bangalore University, Karnataka | December 2015 | 40 |
| 2 | National Inter University Youth Festival at Indore | Devi Ahilya Viswa Vidyalaya at Indore, Madhya Pradesh | September 2015 | 30 |
| 3 | Nature Sensitization Camp | Pampadum Sholai National Park, Munnar | 28 th - 29 th July 2016 | 45 |
| 4 | Inter-Collegiate Media Residential Camp | Devamatha College, Kuravilangad | 30.01.2015 to 01.02.2015 | 38 |
| 5 | Best College Magazine Competition 2014-15 | Department of Student Services | January 2015 | 20 |
| 6 | Cash Awards to winners of MG University Youth Festival (KELI-2014)/SZIUYP/NIUYF | MG University Assembly Hall | 08 February 2013. | 50 |
| 7 | National Inter University Music Fest – 2015 | Kottayam | 23-27 September 2015 | 40 |
| 8 | Students cultural scholarship | School of Environmental Science | November 2015 | 16 |
| 9 | Financial assistance for Medical Aid to students | School of Environmental science | November 2015 | 16 |
| 10 | Scholarship to physically challenged students | School of Environmental science | November 2015 | 16 |
| 11 | Cash Award to Republic Day Parade contingent of NSS/NCC | School of Environmental science | November 2015 | 16 |

2016

| Sl No. | Event | Venue | Date | No. of Participants |
|--------|--|--|--|---------------------|
| 1 | Campus Familiarization Programme | Mahatma Gandhi University Campus | 07/01/2016 | 400 |
| 2 | South Zone Inter University Youth Festival | Mangalore University at Mangalagangothri | 17 th January 2016 | 40 |
| 3 | National Inter University Youth Festival | Mysore University, Karnataka | 15 th to 19 th of February 2016. | 26 |
| 4 | Mukkutti Folk Song Competition | Mahatma Gandhi University Campus | September 2016 | 28 Teams |
| 5 | Editors Camp | U C College, Aluva | October 2016 | 30 |

EXTRA CURRICULAR ACTIVITIES

The university gives ample opportunities to take part in extracurricular activities. The main motto of extracurricular activities is personality development. These are the activities which encourage students to take up their study in a healthy manner. All-round development is achieved through active participation in co-curricular activities. Extracurricular activities offered include National Service Scheme, NSS Film club, Nature club, Red-Ribbon Clubs, Bhoomithra Clubs etc and the associations at the various schools.

Extra-Curricular Activities through National Service Scheme and Department of Life Long Learning and Extension

The various extracurricular activities undertaken by NSS are as follows: Greening Kerala campaign, anti-drug programmes, energy conservation programmes, anti-ragging campaigns, first-aid training programmes, Swachh Bharat awareness campaigns, Unnat Bharat Abhiyan at central ward of Athirampuzha Panchayat, Nalpathimala village, Edamalakudy tribal village and Mukkumpuzha tribal settlement. Govt. U. P. School, Kattathy for computer literacy, blood donation, nature camps, life skill development programmes, river protection programmes, energy conservation activities, awareness against drugs and tobacco, legal literacy programmes, leadership training, personality development programmes, women empowerment programmes, programmes for the elderly, saplings planting drives, life style education, Clean Kerala campaign, involvement in durable assets creation, visit to orphanages, destitute homes, AIDS awareness, income generation projects, home for the homeless, health and family welfare programmes, organic farming, national integration and communal harmony programmes, eco friendly bag making, book binding, traffic awareness programmes, Grama



Darshan programme, Cancer awareness programmes, E-Jalakam, Digital India camps, Swachchhata Pakhwara programme, Sabarimala Cleaning campaigns, adolescent health awareness programmes, pain and palliative care programmes, eye-donation awareness campaigns etc.

NATIONAL SERVICE SCHEME PROGRAMME CALENDAR -2011

| Sl.No | Venue | Programme | Date | No. of Participants |
|-------|-------------------------------|--|------------------------|---------------------|
| 1 | B K College Amalagiri | Training Programmes for making Eco-friendly Paper bags | 6/8/2011 | 55 |
| 2 | University campus | University level Advisory Committee meeting | 26/8/2011 | 25 |
| 3 | St. Xavier's College, Aluva | NSS Award ceremony 2010-11 | 27.08.2011 | 150 |
| 4 | Govt. College, Thripunithura. | NSS Day celebrations | 24/9/2011. | 125 |
| 5 | University Campus | Gandhi Jayanti Day celebration, Peace March and Cleaning programme | 2/10/2011 | 210 |
| 6 | University Campus | Seminar on National Integration and Communal Harmony | 2/10/2011 | 180 |
| 7 | CMS College, Kottayam | University Pre-RD Selection Camp | 3/10/2011 | 150 |
| 8 | CMS College, Kottayam | Volunteer Leadership Training Camp | 4/11/2011 6/11/2011 | 100 |
| 9 | University campus | World Environment Day Celebration by Planting trees in Campus | 5/6/2012 | 100 |

NATIONAL SERVICE SCHEME PROGRAMME CALENDAR - 2012

| Sl.No | Venue | Programme | Date | No. of Participants |
|-------|------------------------------------|---|-------------------------|---------------------|
| 1. | University Campus | International Day against Drug Abuse & Illicit Trafficking -One day intercollegiate seminar on "Think Health-Not Drugs" | 26/6/2012 | 80 |
| 2. | MES College, Erumely | Volunteer Secretaries' Training Camp | 31/8/2012 5/9/2012 | 100 |
| 3. | D B College, Keezhoor | Three day inter collegiate workshop – Media, Reporting News writing & Photography. | 28.9.2012 30.9.2012 | 100 |
| 4 | St. Xaviers College for (W), Aluva | Three day Inter Collegiate Seminar on Life style & Total Health | 30.11.2012 2.12.2012 | 100 |

NATIONAL SERVICE SCHEME PROGRAMME CALENDAR - 2013

| Sl.No | Venue | Programme | Date | No. of Participants |
|-------|------------------------------------|--|--------------------------|---------------------|
| 1. | SB College Changanacherry | One day seminar- The role of judiciary in social justice | 23.2.2013 | 80 |
| 2. | Nirmala College Muvattupuzha | Three day Intercollegiate Camp-Leadership&Personality Development | 1.3.2013 3.3.2013 | 65 |
| 3. | University Campus | Awareness Programme on blood donation. | 14.6.2013 | 180 |
| 4. | University Campus | Award Evaluation Committee meeting | 14-06-2013 | 3 |
| 5. | University Campus | University level Advisory Committee meeting | 23/7/2013 | 30 |
| 6. | University Campus | Malala Solidarity day | 26/7/2013 | 100 |
| 7. | University Campus | Inter colligate One day programme on the prevention of child abuse | 13/8/2013 | 50 |
| 8. | K.E College Mannanam | University level Volunteer Secretaries' Training Camp | 27/9/2013 29/9/2013 | 140 |
| 9. | B.K. College Amalagiri | Pre-RD selection camp | 11.9.2013 | 160 |
| 10. | University Campus | Gandhi Jayanthi Day celebration | 2/10/2013 | 100 |
| 11. | Sreperumbundur | Trainers Training Programmes on Social Harmony and Human Rights | 12/11/2013 16/11/2013 | 2 |
| 12. | Newman college Thodupuzha | Programme Officers meeting | 15/11/2013 | 20 |
| 13. | Assumption College, Changanacherry | Organic Farming Training | 3/12/2013 | 90 |
| 14. | Alphonsa College, Pala | Award Ceremony | 17/12/2013 | 250 |
| 15. | M E S College Erumely | Three day Intercollegiate Camp- environment& Skill development | 20.12.2013 22.12.2013 | 100 |



NATIONAL SERVICE SCHEME PROGRAMME CALENDAR - 2014

| Sl.No | Venue | Programme | Date | No. of Participants |
|-------|------------------------------------|--|--------------------------|---------------------|
| 1. | K G College pampady | One day seminar on personality development | 11.1.2014 | 65 |
| 2. | St.Joseph's College Moolamattom | Personality Development | 5.2.2014 | 35 |
| 3. | Alphonsa College Pala | Women Entrepreneurship Development | 15.2.2014 | 60 |
| 4. | Newman College Thodupuzha | Inter collegiate competition | 22.2.2014 | 35 |
| 5. | M A College Kothamangalam | Three day Camp- Healthy Youth for Healthy India | 28.2.2014 12.3.2014 | 80 |
| 6. | University Campus | NSS Award Evaluation Committee | 10/6/2014 | 3 |
| 7. | JPM College, Labbakkada, Idukki | State level Campus Leader's Camp "UNARVU" | 4/7/2014 6/7/2014 | 40 |
| 8. | Devamatha College, Kuravilangad | Training Camp for NSS Volunteer Secretaries of colleges | 11.07.2014 13.07.2014 | 145 |
| 9. | Catholicate College Pathanamthitta | Leadership workshop | 5.8.2014 | 40 |
| 10. | B.K. College Amalagiri | Pre-RD Selection Camp | 03.09.2014 | 150 |
| 11. | University Campus | Aksharajyothi Yatra | 7/10/2014 | 100000 |
| 12. | Devamata College Kuravilangad | One day workshop on Gandhian Principles | 28.10.2014 | 75 |
| 13. | St. Teresa's College, Ernakulam | Seminar on LIFE & PHILOSOPHY OF VIVEKANANDA | 25/11/2014 | 55 |
| 14. | Sriperumbudur | Training Programme on Employability Skills through Life Skills | 28.11.2014 02.12.2014 | 65 |
| 15. | University Campus | Bamboo Planting Festival | (05.12.2014) | 50 |
| 16. | MES College Erumely | Pampa, Sabarimala Environment conservation | 5.12.2014 7.12.2014 | 50 |

NATIONAL SERVICE SCHEME PROGRAMME CALENDAR - 2015

| Sl.No | Venue | Programme | Date | No. of Participants |
|-------|--|---|------------------------|---------------------|
| 1. | University Campus | Run Kerala Run programme in connection with the 35 th National Games | 20/01/2015 | 200 |
| 2. | Devamatha College Kuravilangad | Media camp | 30.1.2015 1.2.2015 | 100 |
| 3. | New man College Thodupuzha | Quiz Competition Programme | 20.2.2015 | 35 |
| 4. | MES College Erumely | Erumely Sangamam | 20/2/2015 22/2/2015 | 200 |
| 5. | CMS COLLEGE KOTTAYAM | NSS Fest | 27/2/2015 28/2/2015 | 100 |
| 6. | St.Antoney's College Peerumade | Intercollegiate Elocution competition | 3.3.2015 | 100 |
| 7. | St.Teresa's College Ernakulam | One day workshop on Eco-friendly bag making | 5.6.2015 | 57 |
| 8. | B K College Amalagiri | Yoga competition | 20.6.2015 | 200 |
| 9. | BCM College Kottayam | Personality development Training Programme | 7.10.2015 | 100 |
| 10. | St. Xaviers College for (W) Aluva | Leadership training camp | 13.10.2015 | 85 |
| 11. | Morning Star Home science College Angamaly | Seminar - Dr.A P J Abdul kalam – the visionary who walked a head of times | 15.10.2015 | 60 |
| 12. | K E College Mannanam | Training programme on E-Jalakam | 11.12.2015 | 75 |
| 13. | University Campus | Quiz competition | 12.12.2015 | 65 |



NATIONAL SERVICE SCHEME PROGRAMME CALENDAR - 2016

| Sl.No | Venue | Programme | Date | No. of Participants |
|--------------|---|---|------------------------|----------------------------|
| 1. | Delhi | Republic Day Parade Camp 2016 | 1/1/2016 31/1/2016 | 1 |
| 2. | JPM College Labakkada | Career Guidance & Personality development | 8.1.2016 10.1.2016 | 45 |
| 3. | Marian college Kuttikanam | Seminar on Healthy Life Style and Prevention of Drug Abuse | 15.1.2016 | 60 |
| 4. | St.Xavier's college for (W) Aluva | Life skill Education & Youth Development | 15.1.2016 | 75 |
| 5. | University Campus | E-Waste Awareness And Collection Campaign Through Colleges' | 8/2/2016 | 85 |
| 6. | University Campus | Vivekanda Chair Programmes | 11/2/2016 | 100 |
| 7. | University Campus | Digital India, Work Shop | 25/2/2016 | 150 |
| 8. | St.Xavier's College for(W) Aluva | "Gender sensitivity training & women empowerment" | 4/3/2016 6/3/2016 | 100 |
| 9. | Chaithanya Pastoral Centre, Thellakom | Yoga Training Programme | 27/4/2016 29/4/2016 | 80 |
| 10. | University Campus | Work shop "Jalatharangam" | 12/5/2016 | 60 |
| 11. | University campus | Award Evaluation Meeting | 27/5/2016 | 3 |
| 12. | University Campus | Oru Laksham Maram project | 6/6/2016 | 50 |
| 13. | B K College Amalagiri | Volunteer Secretaries Training Camp 2016-17. | 10/6/2016 12/6/2016 | 148 |
| 14. | Baselius College Kottayam | International Yoga Day | 21/6/2016 | 200 |
| 15. | University Campus | NSS Advisory Board meeting,2016 | 30/6/2016 | 30 |
| 16. | BCM College, Kottayam | NSS PROGRAMME OFFICERS CONFERENCE | 15/7/2016 | 100 |
| 17. | St. Xaviers College For Women, Aluva | SLATE PROJECT | 18-07-2016 | 80 |
| 18. | St. Xaviers College for women, Aluva | PROGRAMME OFFICERS CONFERENCE | 19/7/2016 | 56 |
| 19. | Al Azhar College Of Arts And Science, Perumpillichira | PROGRAMME OFFICERS CONFERENCE | 20/7/2016 | 25 |
| 20. | MACFAST Thiruvalla | PROGRAMME OFFICERS CONFERENCE | 22/7/2016 | 19 |

5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last six years.

The University promotes the students to participate in the University/ State/ Zonal/National/International level programs linked to co-curricular, extracurricular and cultural activities.

Sports Competitions

| ARJUNA AWARDEES OF MGU | | |
|-------------------------------|------------------------------------|------|
| 1 | Smt. Preeja Sreedharan - Athletics | 2011 |
| 2 | Smt. Geethu Anna Jose - Basketball | 2014 |

| OLYMPIANS FROM MGU | | |
|---------------------------|---------------------------------|------|
| 1 | Smt. Anilda Thomas - Athletics | 2016 |
| 2 | Smt. O. P. Jaisha - Athletics | 2016 |
| 3 | Sri. Gopi T. – Athletics | 2016 |
| 4 | Sri. Jinson Johnson - Athletics | 2016 |

| ASIAN GAMES ATHLETES PRODUCED BY MGU | | |
|---|-----------------------------------|------|
| 1 | SRI. Jinson Jhonson - Athletics | 2014 |
| 2 | Smt. Rekha S - Volleyball | 2014 |
| 3 | Smt. Fathima Ruksana - Volleyball | 2014 |

| INTERNATIONAL SPORTS PERSONS FROM MGU | | | |
|--|--------------------|--------------|------|
| 1 | Smt. Anu R | Athletics | 2015 |
| 2 | Smt. Saneesha E P | Athletics | 2015 |
| 3 | Smt. Poojamol K S | Basketball | 2014 |
| 4 | Smt. Vinaya Joseph | Basketball | 2014 |
| 5 | Smt. Rekha S | Volleyball | 2013 |
| 6 | Smt. Renjini C.A | Handball | 2013 |
| 7 | Smt. Aswathy E | Volleyball | 2012 |
| 8 | Smt. Thanu Mathew | Handball | 2012 |
| 9 | Smt. Maria Ronny | Table Tennis | 2011 |
| 10 | Sri. Arjun M R | Badminton | 2011 |
| 11 | Sri. Shyam Prasad | Badminton | 2011 |



| | | | |
|----|-------------------------|------------|------|
| 12 | Sri. Arun George | Badminton | 2011 |
| 13 | Smt. Reshmi Bose | Athletics | 2010 |
| 14 | Smt. Megha Merin Mathew | Badminton | 2010 |
| 15 | Smt. Fathima Ruksana | Volleyball | 2010 |
| 16 | Smt. Smisha K.S. | Volleyball | 2010 |

| | | | |
|---|--|--|--|
| PARTICIPATION AT WORLD UNIVERSITY CHAMPIONSHIP | | | |
|---|--|--|--|

| | | | |
|---|-------------------------|------------|------|
| 1 | Sri. Rijas Mohammed | Volleyball | 2015 |
| 2 | Sri. Dilshad K | Badminton | 2014 |
| 3 | Sri. Suraj P H | Badminton | 2014 |
| 4 | Smt. Megah Merin Mathew | Badminton | 2013 |
| 5 | Smt. Arathy Sara Sunil | Badminton | 2013 |
| 6 | Smt. Sheena P.V | Athletics | 2013 |
| 7 | Sri. Jeris Jose | Athletics | 2013 |

| | | |
|---|--|--|
| RANJI TROPHY PLAYERS PRODUCED BY MGU | | |
|---|--|--|

| | | |
|---|--------------------------|------|
| 1 | Sri. Jafar Jamal | 2015 |
| 2 | Sri. Salman Mohammed | 2015 |
| 3 | Sri. Muhammed Azharudeen | 2013 |
| 4 | Sri. Sachin Baby | 2012 |

| | | | |
|--|--|--|--|
| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2010-11 | | | |
|--|--|--|--|

| | | | |
|---|-------------------|------|-------|
| 1 | Volleyball (W) | AIIU | First |
| 2 | Cross Country (W) | AIIU | Third |
| 3 | Badminton (W) | AIIU | Third |
| 4 | Athletics (M) | AIIU | Third |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2011-12 | | | |
|--|-------------------|------------|--------|
| 1 | Cross Country (W) | AIIU | First |
| 2 | Badminton | AIIU | First |
| 3 | Athletics (M&W) | AIIU | Second |
| 4 | Handball (W) | South Zone | First |
| 5 | Volleyball (W) | South Zone | Second |
| 6 | Basketball (W) | South Zone | Third |
| 7 | Badminton (M) | South Zone | Second |
| 8 | Table Tennis (M) | South Zone | Third |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2012-13 | | |
|--|------------|--------|
| Badminton (W) | AIIU | First |
| Athletics (W) | AIIU | First |
| Athletics (M) | AIIU | Second |
| Volleyball (W) | AIIU | Third |
| Handball (W) | South Zone | Second |
| Hockey (W) | South Zone | Third |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2013-14 | | | |
|--|----------------|------------|--------|
| 1 | Athletics (W) | AIIU | First |
| 2 | Badminton(W) | AIIU | First |
| 3 | Badminton (M) | AIIU | First |
| 4 | Volleyball (W) | AIIU | Second |
| 5 | Football (M) | AIIU | Second |
| 6 | Basketball (W) | AIIU | Third |
| 7 | Handball (W) | South Zone | First |



| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2014-15 | | | |
|---|-------------------|------|--------|
| 1 | Cross Country (W) | AIIU | First |
| 2 | Badminton | AIIU | First |
| 3 | Athletics (W) | AIIU | First |
| 4 | Volleyball (W) | AIIU | First |
| 5 | Badminton (M) | AIIU | Second |
| 6 | Basketball (W) | AIIU | Third |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2015-16 | | | |
|---|------------------|------------|--------|
| 1 | Athletics (W) | AIIU | First |
| 2 | Athletics (M) | AIIU | Second |
| 3 | Volleyball (W) | AIIU | Third |
| 4 | Badminton (M) | AIIU | Third |
| 5 | Table Tennis (W) | South Zone | First |
| 6 | Handball (W) | South Zone | Third |

Youth Festivals

The Students Union conducts competitions in the following events annually.

- AKSHARASLOKAM
- BHARATHANATYAM - MALE
- CARTOONING
- CLASSICAL MUSIC VOCAL FEMALE
- CLASSICAL MUSIC-MALE
- CLAY MODELING
- COLLAGE
- DUFFMUTTU
- ELOCUTION -MALAYALAM
- ELOCUTION- ENGLISH
- ESSAY WRITING - HINDI
- ESSAY WRITING-ENGLISH

- ESSAY WRITING- MALAYALAM
- FILM REVIEW
- FOLK DANCE -SINGLE
- FOLK DANCE
- GROUP SONG -INDIAN
- GROUP SONG- WESTERN
- HINDI ELOCUTION
- KATHAKALI
- KATHAPRASANGAM
- KAVITHAPARAYANAM -MALAYALAM
- KAVYAKELI
- KERALANADANAM
- KOLKALI
- LIGHT MUSIC -FEMALE
- LIGHT MUSIC -MALE
- MARGAMKALI
- MIME
- MIMICRY
- MOHINIYATTAM
- MONOACT
- ONEACT PLAY
- OPPANA
- OTHER FORMS OF CLASSICAL DANCE
- OTTANTHULLAL
- PAINTING
- PERCUSSION INSTRUMENT- EASTERN
- PERCUSSION INSTRUMENT -WESTERN
- PHOTOGRAPHY
- POETRY RECITATION- ENGLISH
- POETRY RECITATION -HINDI
- POETRY WRITING - ENGLISH



- POETRY WRITING - HINDI
- POETRY WRITING -MALAYALAM
- POSTER DESIGNING
- QUIZ
- SHORT STORY WRITING-ENGLISH
- SHORT STORY WRITING-HINDI
- SKIT
- STORY WRITING -MALAYALAM
- STRINGED INSTRUMENT -WESTERN
- STRINGED INSTRUMENT- EASTERN
- THIRUVATHIRA KALI
- WESTERN VOCAL SOLO
- WIND INSTRUMENT -WESTERN
- WIND INSTRUMENT- EASTERN

International Moot Court Competition: Ananthakrishnan A. Kartha, BBA, LLB Final year student of School of Indian Legal Thought won the Second Best Advocacy Award and Second Best Mooter Award conducted by European College of Law and Commonwealth Legal Education Association in London, UK during September 25-29, 2015.

National Moot Court: Ananthakrishnan A. Kartha, BBA, LLB Final year student of School of Indian Legal Thought won the Best Mooter Award in 2015.

**List of NSS Awardees-University, State and National Level
INDIRA GANDHI AWARD & STATE AWARD (2011-2015)
UNIVERSITY LEVEL AWARD 2011-12**

| | | |
|----|-------------------|---------------------------------------|
| 1. | Neethu P Thomas | SVR NSS Vazhoor |
| 2. | Reni Susan Philip | SVRNSS Vazhoor |
| 3. | Renukumar | Assumption College, Changanacherry |
| 4. | Lakshmi E R | D. B. Pampa College, Parumala |
| 5. | Angala Mathew | Alphonsa College, Pala |
| 6. | Akhil Jose | Nirmala College, Muvattupuzha |
| 7. | Ericka Wilson | Nirmala College, Muvattupuzha |

UNIVERSITY LEVEL AWARD 2012-13

| | | |
|----|----------------------|-------------------------------------|
| 1. | Merin Maria Augustin | Baselius College Kottayam |
| 2. | Vishnu K A | St.Thomas College, Kozhencherry |
| 3. | Anu Yohannan | St.Xaviers College for Women, Aluva |
| 4. | Sandra Lis Sebastian | Alphonsa College, Pala |
| 5. | Jubin James | Newman College, Thodupuzha |
| 6. | Raza Habeeb | MES College, Erumely |
| 7. | Anasooya Joseph | Nirmala College, Muvattupuzha |
| 8. | Keerthana K Ajai | Nirmala College, Muvattupuzha |

UNIVERSITY LEVEL AWARD 2013-14

| | | |
|----|------------------|--|
| 1. | Cinu Priya Joy | Alphonsa College, Pala |
| 2. | Arya S Nath | Catholicate College, Pathanamthitta |
| 3. | Raveena K Ramesh | K E College, Mannanam |
| 4. | Jomol M Thayyil | Nirmala College, Muvattupuzha |
| 5. | Althaf T.K | MES College, Erumely |
| 6. | Jijo George | K G College, Pampady |
| 7. | Emil T Abraham | Baselius College, Kottayam |
| 8. | Vimal N.V | Nirmala Arts & Science College, Mulanthuruthy |

UNIVERSITY LEVEL AWARD 2014-15

| | | |
|----|-------------------|------------------------------------|
| 1. | Aiswaryalekshmi R | Alphonsa College Pala |
| 2. | Rose Mary | St.Teresa's College Ernakulam |
| 3. | Priya Anna James | Marian College Kuttikkanam |
| 4. | Manoj George | Baselius College Kottayam |
| 5. | Jiffna Henry | St.Xaviers College For Women Aluva |
| 6. | Tony Mathew | Marian College Kuttikkanam |
| 7. | Libin K Kuriakose | K.G.College Pampady |
| 8. | Alex David | CMS College Kottayam |



UNIVERSITY LEVEL AWARD 2015-16

| | | |
|----|------------------|-------------------------------------|
| 1 | Shahana K V | Maharajas College Ernakulam |
| 2 | Swarna Thomas | St.Xaviers College For Women Aluva |
| 3 | Jeena Elsa John& | Marian College, Kuttikkanam |
| 4 | Jesty Poly | Morning Star College, Angamaly |
| 5 | Jayasree.S | Baselius College, Kottayam |
| 6 | Emilda George | St.George College, Aruvithura |
| 7 | Shinu Shaji | S N College, Pampanar |
| 8 | Akhil Alex | Catholicate College, Pathanamthitta |
| 9 | Ananthu Ajith | Nirmala College, Muvattupuzha |
| 10 | Abin P Kurian | K. G. College Pampady |

STATE AWARD 2011-12

| | | |
|----|---------------|-------------------------------|
| 1. | Ericka Wilson | Nirmala College, Muvattupuzha |
|----|---------------|-------------------------------|

STATE AWARD 2012-13

| | | |
|---|----------------------|---------------------------|
| 1 | Merin Maria Augustin | Baselius College Kottayam |
|---|----------------------|---------------------------|

STATE AWARD 2013-14

- a) University has bagged the NSS State Award for the Best University, 2013-14
- b) Cinupriya Joy (Alphonsa College, Pala) and Arya S Nath (Catholicate College Pathanamthitta) NSS volunteers of M.G. University have been selected for NSS State Government Award 2013-2014 for Best volunteers.

STATE AWARD 2014-15

| | | |
|----|-------------------|--------------------------------|
| 1. | Aiswaryalekshmi R | Alphonsa College, Pala |
| 2. | Rose Mary | St.Teresa's College, Ernakulam |
| 3. | Priya Anna James | Marian College, Kuttikkanam |
| 4. | Manoj George | Baselius College, Kottayam |

STATE AWARD 2015-16

a) University bagged the NSS State Award for the Best University, 2015-16

| Sl.No | Name of the Student | College |
|-------|---------------------|------------------------------------|
| 1. | Shahana K.V. | Maharajas College, Ernakulam |
| 2. | Akhil Alex | Catholicate College Pathanamthitta |
| 3. | Swarna Thomas | St.Xaviers College for Women Aluva |

INDIRA GANDHI NATIONAL APPRECIATION AWARD 2012-13

Dr. K. Sabukuttan, Programme Co-ordinator, National Service Scheme
Mahatma Gandhi University received Indira Gandhi National Service Scheme Appreciation Award 2012-13 from the Hon'ble President of India Sri. Pranab Kumar Mukherjee.

INDIRA GANDHI NATIONAL AWARD (IGNSS AWARD 2013-14)

Mahatma Gandhi University was selected as the Best University and conferred with the Indira Gandhi National Service Scheme (IGNSS Award) for the year 2013-14. Dr. K. Sabukuttan, Programme Co-ordinator, was awarded the Best NSS Co-ordinator award.

INDIRA GANDHI AWARD 2014-15

Mahatma Gandhi University National Service Scheme volunteer Manoj George of Baselius College, Kottayam & Aiswarya Lakshmi. R of Alphonsa College, Pala received Indira Gandhi National Service Scheme Best Volunteer Award 2014-15 from the Hon'ble President of India Sri. Pranab Kumar Mukherjee.

5.3.3 Does the university conduct special drives/campaigns for students to promote heritage consciousness?

Yes. The university has awarded honorary doctorates to the internationally acclaimed painter A. Ramachandran and the late musician V. Dakshinamurthy during the reporting period specifically to uphold the rich cultural heritage and to provide an opportunity for the students and the research scholars to get an overall awareness on the art forms.

The Folklore Club of the university conducts regular programmes for enhancing the consciousness among the students on the legacy and heritage of the Kerala State and India.

- The university encourages students to visit archeological sites to get the feel of yesteryear culture and tradition and to enhance the collections in the



Archeological Museum set up in the School of Social Sciences through new excavations. The university has been instrumental in taking the lead position in establishing two interuniversity centers under the aegis of Government of Kerala for preservation and promotion of traditional organic farming and music, besides the academic and research activities. Students were actively involved in the conduct of the week-long International Music Festival (NAADAM) and 10-day long INBOFA book exhibition cum cultural show. An interuniversity music festival was also organized as part of the NAADAM festival.

- In order to encourage the students to pursue cultural activities, students' cultural scholarship has also been instituted during the period for which an annual allocation of an amount of one lakh rupees is provided.
- Traditional artisans are invited to the campus for displaying their craft before the students. Regular performances of artists are conducted to showcase the rich heritage of the Nation. The Department of Students Services in association with School of Letters conducted *Mukkutty*, an all Kerala Inter University competition exclusively for traditional songs of Kerala. Lecture demonstrations of the tribals as well as rich art forms like Kathakali, Koodiyattom, musical instruments.
- As part of the conferences (national/international) conducted by the International and Interuniversity Centre for Nanoscience and Nanotechnology, Kathakali performances – the traditional art form of Kerala were organized. The performances provided an experience of the rich cultural heritage of Kerala to the international and national delegates.

5.3.4 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/materials brought out by the students during the last four academic sessions.

Department of Student Services (DSS) organizes an annual competition for the best student magazine from among the department/ colleges and gives away a cash award of Rs 10,000 as first prize, 7,500 as second prize and Rs 5,000 as third prize and two consolation prizes carrying Rs 2,500 each.

The departments encourage the students to bring out their own magazines in order to encourage the writing skills and creativity among them. Some of the magazines produced by the departmental students of the University are the following.

IT GLIMPSE- Annual publication of the students of School of Computer Sciences

Eco Voice –News Letter from School of Tourism Studies

Hue – Monthly Magazine from School of Tourism Studies

Un e'talage de terre 2012 - School of Tourism Studies

Incredible India 2014- School of Tourism Studies

Accessibility 2016 – School of Tourism Studies

Students of various departments publish wall papers regularly in the space provided by the university officially.

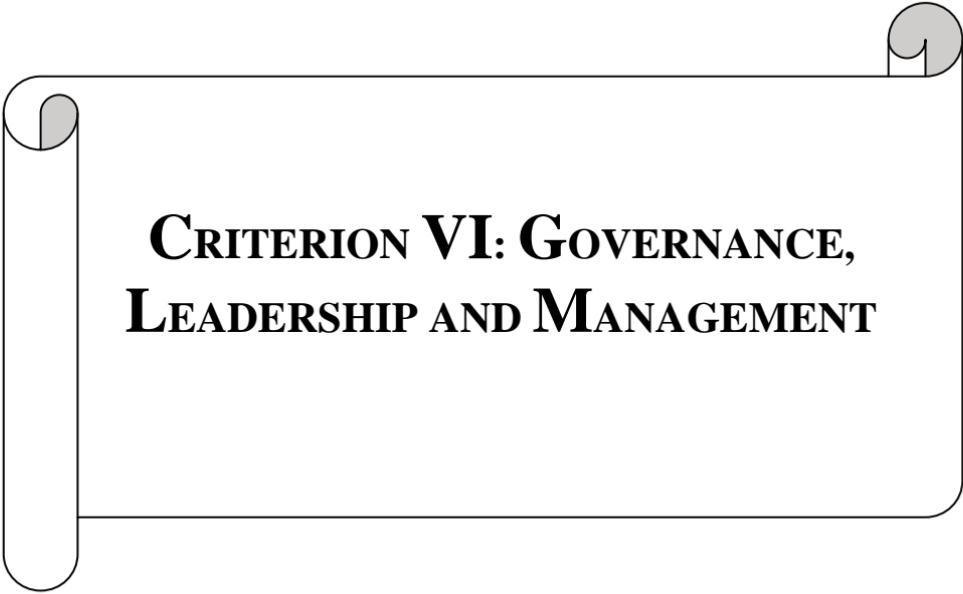
5.3.5 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.

Yes. University has a Department Students Union for the campus students as well as University Students Union for the whole university. Administrative structure of both the unions has elected student representatives from all the departments and colleges respectively. The activities of the unions are controlled by the Executive Committee consisting of Chairman, Vice Chairman, General Secretary, Joint Secretary and members who are elected democratically. The Department Students Union has a Magazine Editor and an Arts Club Secretary too.

The unions conduct inter department/inter collegiate cultural competitions sports and games. Drama Festival, Film Festival, Nature Camp, Magazine Editors Camp, Literary Camps, Book Fairs, awareness campaigns against drug/alcohol/ragging, blood donation programmes, women empowerment programme, workshops for poetry, music and fine arts are some of the programmes organized by the Unions. Student parliaments organized in order to impart leadership skills to the students, are also a regular feature of the activities. Every student contributes Rs 50 annually to meet the expenditure for the activities of the respective unions. Every activity of the unions including finance is controlled by the unions under the guidance of the Director of Student Services.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.

Student participation has been ensured in the Syndicate which is the chief executive body of the university besides the Academic Council, the highest authority in academic matters. The Senate of the University too has student representation. The student representatives are given ample opportunities to raise administrative and academic issues relating to research scholars and students, including courses, teaching learning methods, evaluation process, infrastructure, library books, and facilities and the functioning of various academic bodies. The students are also free to recommend titles and authors for purchase of books in the university library and school/department libraries. Opinions of the students are sought in the functioning of canteens and hostels as well.

A decorative scroll graphic with a light gray background and a dark gray border. The scroll is partially unrolled, with the top and bottom edges showing a dark gray shadow. The text is centered within the scroll.

**CRITERION VI: GOVERNANCE,
LEADERSHIP AND MANAGEMENT**

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the Vision and the Mission of the University

VISION:

“विद्ययाअमृतमश्नुते Vidyayāmritamaṣṇute”

"Mahatma Gandhi University envisions to excel in the field of higher education and cater to the scholastic and developmental needs of the individual, through the continuous creation of a critical knowledge base for the society's sustained and inclusive growth."

As enshrined in the motto **“विद्ययाअमृतमश्नुते Vidyayāmritamaṣṇute”** the University strives to make individuals immortal through knowledge.

MISSION:

The University envisages:

- To create an environment that would foster higher education in its jurisdiction
- To create educated individuals qualified in specialized areas of knowledge
- To plan and implement academic programmes of the highest quality that would foster the holistic development of individuals who will be empowered to act as the conscience of society
- To conduct and support undergraduate, postgraduate and research-level programmes of quality in Sciences, Humanities, Social Sciences, and the professional disciplines
- To foster research and extension activities directed at the reorganization of existing knowledge and the creation of new knowledge for the development of society
- To help in the creation and development of manpower that would provide intellectual leadership to the community
- To provide skilled manpower to the professional, industrial and service sectors in the country so as to meet global demands
- To help promote the cultural heritage of the nation and preserve the biodiversity of the region



- To promote national development by imparting education and culture to the people of the areas coming under the jurisdiction of the University
- To develop itself into an institution with the highest standards of excellence without losing sight of the importance of social equity.

6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future etc.?

Yes. The university aspires to emerge as an institution with the highest standards of excellence focusing on social equity. It addresses the needs of the society by producing citizens with social commitment, conducting programmes that provide skilled manpower to the professional, industrial and service sectors in the country so as to meet global demands. Besides it organizes several extension activities that enable it to interact with the society, especially the preservation of the biodiversity of the region. Further, it seeks to serve its students through conduct of qualitatively superior academic programmes.

The institution preserves its tradition and value orientations, by imparting knowledge in accordance with its vision-“*Vidyayāmritamaṣṇute*”, i.e. immortality through knowledge.

6.1.3 How is the leadership involved

a. In ensuring the organization's management system development, implementation and continuous improvement?

There is a collective leadership in the university which constantly interacts with the stakeholders. The Vice - Chancellor interacts with various administrative departments through the Registrar. The Syndicate is the governing body, the Senate is the advisory body. The syndicate under the chairmanship of Vice-Chancellor meets regularly with a prior agenda. Minutes are prepared, follow up measures are carried out and a continuous process of brainstorming and discussions on the issues are taken up. Periodic meetings of HOD's of schools/centers and principals of affiliated colleges convened by the Vice Chancellor and attended by the university higher ups ensure meaningful interaction between the university leadership and its take holders.

The Academic Council is responsible for the maintenance of standards of curricula, research, education and examination. The Deans, Convener of the Credit and Semester System (CSS), Chairpersons-Boards of Studies (BoS), Director -IQAC, and other designated officials are responsible for introducing new programmes, restructuring the existing ones and introducing innovative methods of teaching in the emerging areas of interest. The College Development Council (CDC) caters to the developmental needs of the



affiliated institutions. The Director for Research ensures the quality of the research programmes by conducting an entrance test, course work and periodical doctoral committee meetings. The Faculty Council meetings at various schools, departments and centers ensure participative decision-making. National/ international experts in the field concerned serve the editorial boards of our journals.

b. In interacting with its stakeholders?

Government: The university is primarily funded by the Government of Kerala. Honourable Minister of Education serves as the Pro- Chancellor and representatives of the government serve as members in the Syndicate, which includes Higher Education Secretary and a Higher Education Council Member. Their participation facilitates better co-ordination with the government without compromising the institution's autonomy.

Students: The students and research scholars have direct access to the Vice-Chancellor, the Registrar, Deans and HODs. Periodic meetings are conducted for understanding their needs and problems. Constant interactions with alumni, industrialists and educationalists take place for policy formulation and implementation. The university has taken strong initiatives through IQAC to revise the syllabus by interacting with stakeholders. When new students are enrolled, they are given orientation about CSS, using resources, pedagogy and assessment methods optimally.

Society at Large: The university offers programmes in disciplines that include Sciences, Social Sciences, Humanities and professional programmes with intention of a paradigm shift in student attitudes. The schools carry out extension activities to reach out to society, farmers and industrialists. Our science departments, particularly the School of Chemical Sciences and School of Biosciences cater to the requirements of the industry. The University has also established the Centre for Organic Farming to popularize the needs of healthy agriculture/ farming habits and practices. The School of Behavioral Sciences/ Social Sciences address the issues related to the differently-abled people. The School of Environmental Sciences spreads the message of environmental protection and awareness. It also extends support to the villagers providing safe drinking water through rain water harvesting.

c. In reinforcing a culture of excellence?

Our departments conduct seminars, conferences, workshops etc. to facilitate knowledge flow among the academic community as well as the society. Teachers and students are encouraged to present papers in seminars and publish their research works in reputed international journals. The university publishes its journal – *the Mahatma Gandhi University Research E-Journal* to reach out to academic community. Teachers are encouraged to take up socially relevant projects and research in frontier areas.



d. In identifying organizational needs and striving to fulfill them?

Interactions with all stakeholders on a regular basis help identify organizational needs and to strive for their fulfillment.

6.1.4 Were any of the top leadership positions of the university vacant for more than a year? If so, state the reason

No.

6.1.5 Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes. The government and university take timely measures to fill up all positions in its statutory bodies as per the provisions in the act and statutes. The Syndicate of the university comprises of representatives from all stakeholders including that of faculty, educationalists, students, employees and member of legislative assembly. The resolutions of all statutory bodies like Syndicate, Senate and Academic Council are made through democratic participatory decision making process.

Syndicate/Senate/Academic Council Meetings from 2011-2015

| Meetings | Sessions |
|------------------|----------|
| Syndicate | 55 |
| Senate | 15 |
| Academic Council | 9 |

6.1.6 Does the University promote a culture of participative management? If yes, indicate the levels participative management?

Yes. The university promotes a culture of participative management. There exists decentralization and proper division of power and empowerment of appropriate statutory bodies in decision-making at different levels. The university is proud to have representatives from all the categories in its board of governance, namely the faculty, employees and students. The agenda to be discussed is distributed well in advance to provide full opportunity for an informed participation.

6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous

Leadership is provided through various bodies like Academic Council, Board of Studies and Pass Boards. The senior faculty members of the university are nominated as representatives in statutory and non-statutory committees in the affiliated colleges. Some of our faculty members are nominated as members of governing boards of autonomous colleges. The university has 10 autonomous



colleges viz. Sacred Heart College Thevara, St. Teresas College, Ernakulam, Assumption College Changanacherry, St.Berchmans College, Changanacherry, Mar Athansious College, Kothamangalam, St.Albert's College,Ernakulam, Marian College, Kuttikanam, Maharajas College Ernakulam, Rajagiri School of Social Sciences, Kalamaserryand CMS College,Kottayam.

The DCDC (Directorate of College Development Council) has been formed by the university to provide leadership to its affiliated colleges in academic and administrative matters. Major Project proposals from around 30 teachers and minor projects from around 100 teachers of affiliated colleges were forwarded to UGC, New Delhi through the office of the Director, College Development Council. DCDC took leadership role in conducting Career Oriented Programmes in 45 colleges. During the X and XI Plans, 08 colleges affiliated to this university were entitled Colleges with Potential for Excellence (CPE).CMS College, Kottayam was awarded Rs. 4.08 Crores under the scheme for institutions with Special Heritage Status. Currently 28 out of 71 colleges are conducting add-on courses. Total number of add-on courses offered by the various colleges of the university is around 60. All these activities are co-ordinated by the DCDC.

6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

No. However, the university has framed rules and regulations for granting autonomy status to the affiliated/constituent colleges. The Academic Council of the University at its meeting held on 17.01.2009 has framed rules for conferment of academic autonomy to the affiliated colleges, which satisfy the eligibility criteria fixed.

6.1.9 How does the university groom leadership at various levels? Give details.

University leaders are included in delegations to international forums and are exposed to international academic platforms to emerge as leaders in academia. The university provides financial support to faculty members to participate in international conferences/seminars, symposia etc.

There exists rotation of Directorships every three years and Deanships during every two years which groom leadership among teachers. This facilitates young faculty members to assume leadership and make the institution academically buoyant. Teachers serve as members of the Syndicate, Senate and other bodies of the university. Participation of faculty members in school activities is ensured by distribution of responsibilities.



The university also promotes employees organizations and co-operative societies that inculcates leadership value among the employees. The faculty/staff development programmes organized by the university for its teaching/ non-teaching staff is another platform for personality / skill development and leadership training. The women's organization is also in the forefront in empowering the women community in the campus through its various activities.

Department Students Union (DSU) co-ordinates the cultural/ organizational activities of the students. Elections are periodically held. Besides, the university offers avenues like NSS to groom good leaders from students.

6.1.10 Has the university evolved a knowledge management strategy? If yes, give details.

Yes. The university manages knowledge dissemination making use of the following effective strategies.

1. Publications in refereed journals/ seminars/ conferences/ workshops/ symposia.
2. Several schools/centers publish in house academic journals.
3. The printing and publishing department of the university publishes various types of books.
4. BOS in several subjects edits text books for students use.
5. University has organized a number of seminars and conferences for dissemination of knowledge.
6. The IQAC which has a pivotal status takes care of all major academic and knowledge oriented activities of the university.
7. The university website www.mgu.ac.in offers various services to students like downloadable application forms, university orders and other varied academic services offered by the university.
8. Students and faculty can access e-resources subscribed through INFLIBNET facility in the university.
9. Above all, the university has a digital library with a good repository of research projects, theses, dissertations of the researchers of the university providing ready reference.

6.1.11 How are the following values reflected in the functioning of the University?

a. Contributing to national development:

Research projects are undertaken in different areas in collaboration with leading research institutions within India and abroad. These collaborations

make it possible for the university to send their research students to different research labs of international repute.

Some of the schools are conducting research programmes specially focusing on community development. School of Tourism Studies conducts projects on real time tourism management issues with social relevance using a problem based approach. The School identified and grouped the tourism resources of Kerala and published a book titled 'Tourism Products of Kerala'. ABILITY project of School of Social Sciences is conceived to address the needs of physically challenged students and researchers and to conduct research in disability studies.

The faculty of the School of International Relations and Politics take interest in research and development activities by initiating studies on social policy making such as the Rural Employment Guarantee Act. Constant efforts are made for innovation in curricular development, teaching practices and social research engagements. The faculty members lead three important consultancy studies on Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) commissioned by State Institute of Rural Development, Government of Kerala.

In a novel initiative to engage with issues that are important for the policy-makers of the nation and as an attempt to strengthen the analytical basis for discussion, the university has launched University - Policy-maker interface Programme. The programme examines and prepares studies on issues of national/regional importance that could help clarify the debates on constitutional bills and draw upon expert academic commentaries to arrive at prudent but critical insights into the issues at stake. The programme is part of the KN Raj Centre's efforts to reach out to the policy-makers, on behalf of the university. The most recent endeavour focused on the constitutional bill, 2014 is aimed at the implementation of Goods and Services Tax (GST) regime in the country.

Schools and Centres under the Faculty of Science, Faculty of Technology and Applied Sciences and Faculty of Engineering and Technology have contributed significantly to the society through scientific innovations, trained manpower to academia and industry. Schools / Centres under the Faculty of Social Sciences and Faculty of Management Sciences etc have made significant contributions in the field of heritage preservation, skilled manpower development, social innovations etc. Schools offering programmes in the innovative areas of Environmental Sciences, Gandhian Studies, Life Long Learning, Tourism Studies etc. are pioneering institutions in those areas and have contributed much to national development.

b. Fostering global competencies among students:

Most of the schools of the university have industrial tie-ups and collaborative programmes. The university has many forms of relationships with many



national/international universities/organisations and has signed memoranda of understanding (MoU) as indicated in 5.1.10 (MoU signed with external organizations and effectively implemented)

In School of Environmental Sciences, School of Chemical Sciences and School of Biosciences, experts from industries such as Agilent, Shimadzu, Jeol, Perkin Elmer and Thermo conduct classes and workshop on advancements in instrumental technologies. In School of Tourism Studies, experts from the hospitality, tourism and allied industries deliver lectures. They also provide internship opportunities in their institutions. Active industry linkage results in internship and placement opportunities to students ensuring employability.

c. Inculcating a sound value system among students:

- Counseling services for parents and children.
- Mental health programmes.
- Sensitization and awareness programmes on drug addiction & alcoholism.
- Conduct of exhibitions and competitions on various disabilities & their management.
- As part of “Clean India Challenge” 8th October 2015 was observed as Cleaning Day.
- Charity programme organized by the Department Students Union of the university for the young residents of Nalpathimala colony.
- Legal literacy mission was carried out in various Panchayats and Schools.
- Organized dispute redressal through the mechanism of mediation.
- Blood donation and campus cleaning activity.
- Students in four groups undertook projects on “Destination development-Water Ways”, “Barrier free tourism in destinations of Kottayam district”, “Role of social media in tourism development, “Plant based souvenirs of Kerala” in collaboration with the local tourism/leisure industry suppliers which enabled the students and the School of Tourism Studies to analyze the imperative needs of the needy in achieving their right to leisure.
- Organized gender sensitization programmes.

d. Promoting use of technology:

Campus wide availability and accessibility to internet promotes the use of technology. Use of technological resources and ICT are widely practiced in

teaching-learning. Automation of administrative departments, linking of academic and administration through intranet, use of digital library, provision of PCs, laptops to all members of faculty, Common computing centre with high-end software packages, well established language laboratories are all platforms promoting the use of technology in campus. Submission of proposals for funding from various funding agencies is done through online.

e. Quest for excellence:

Quest for excellence is promoted in the following areas:

- In curriculum development, constructive discussions are undertaken with the stake holders especially from industry and alumni. Feedback is taken from stakeholders to raise the curriculum to international standards.
- In teaching and learning, the state-of-the-art laboratories, hands on experiences and experiential learning plays an important role. Indo-US Obama Singh 21st Century Knowledge Initiative facilitated capacity building among faculty members and students. In some departments, master students are sent abroad to perform part of their theses work. MOOC courses are being offered by various schools
- In promoting research competence, scholars and faculty are deputed for seminars and symposia thus encouraging them to develop academic tie-ups and partnerships. The Research Committee initiates, monitors and promote there search activities of the university.

6.2 Strategy Development and Deployment:

6.2.1 Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

Yes.The university has a carefully prepared perspective plan for growth and development.

a. Vision and mission:

The university has a vision statement to which all the developmental activities are aligned.

With a view to creating knowledge addressing the needs of the society, different programmes and activities are designed in various areas of humanities, basic and applied sciences, management, technology, behavioural sciences etc.

b. Teaching and learning:

The university has a practice of using resourceful and impactful inputs for teaching and learning. Being the largest university in the state in terms of student intake and number of affiliated colleges, extreme care in every aspect



of teaching and learning including curriculum design, delivery and assessment is taken to ensure quality and excellence

c. Research and Development:

The university facilitates cutting edge research in various areas of science and technology, humanities and literary studies and management and business areas. The faculty members of the university have been carrying out several research projects being funded by reputed national agencies. Some faculty members have international research collaborations. The university has been constantly promoting its faculty and scholars in research activities to contribute and generate new knowledge that help address the needs of the industry and society.

TABLE

80 major and 19 minor research projects have been completed during the assessment period and 18 ongoing research projects which were taken up. Also, the University currently has 42 international collaborations/linkages.

c. Community engagement:

- Faculty members and students have conducted several awareness camps, field trips and socio-economic surveys to delve deep into the problems faced by the local community.
- Several programmes for the benefit of differentially-abled persons were conducted by Inter University Centre for Disability Studies (IUCDS). They include: Certificate courses in Ageing and Disability Management, counseling and training programs in management of behavioral problem among children, learning disabilities, Continuous Rehabilitation Education (CRE) program etc.
- Some of the major programmes include competition for college students on paper presentation, lectures in colleges and schools for promoting Nanoscience and Nanotechnology, legal aid programmes and legal literacy camps, south Indian level management meets etc.
- The University has successfully completed a programme on waste management with the support of Kerala Biotechnology Commission.
- Spend a Day in Campus is an environmental awareness programme regularly conducted by Advanced Center of Environmental Studies and Sustainable Development (ACCESSD) for school students.

d. Human resource planning and development:

There is a Planning Board which formulates and visualizes the overall planning of the university. This board has the Vice-Chancellor, Governor's nominee, Higher education secretary, 3 members nominated by VC amongst Directors' of statutory departments, a nominee from State

Planning Board, a nominee of the UGC, Registrar and Finance Officer as members. It provides suggestions on policies and programmes of the University. The P&D Section supervises and directs the various projects and funds received in the university. Some of the major activities carried out:

- Preparing Five Year Plan Proposal for the University
- Preparation of proposals for Government of Kerala, Planning Commission, UGC, RUSA and other national and International funding agencies.
- Implementing special schemes of Government of Kerala to University.

Some of the salient aspects of human resources planning and development taken up are the following:

- Schools/Departments encourage teaching and non-teaching staff to attend workshops, seminars and training programmes, orientation courses and refresher courses organized by the Academic Staff Colleges and other academic institutions. The Schools also organize several national and international level workshops, conferences and seminars.
- Human resource development for students is achieved through regular curriculum development, analytical teaching, practical training, projects and industrial visits. A placement cell also functions in the University.
- Guest faculties are appointed from time to time to complete the additional workload. The University schools give thrust on conducting training programmes in technologies like remote sensing, GIS, GPS, use of sophisticated instruments and analytical techniques etc. The schools ensure quality among students and staff through enrichment programmes conducted occasionally.
- The specific strengths of the students are sharpened and they are given training in research to generate productive and employable intellectual workforce.

e. Industry interaction:

- Industrialists are invited for curriculum revision process, lectures and seminars, industrial visits, internship and placement activities, patenting, industry funded projects etc. This facilitates building active relationships with industries. The university has identified a list of experts from industry to be invited as resources persons for discourses and lectures.
- For training and placement related services, the schools have linkages with leading business companies. Visiting resource persons from the industries give lectures to ensure industry interaction.
- The schools undertake research on various aspects of Environment Science



and Management like pollution control and remediation in collaboration with industries. One day job hunting programme was organized by M/s. Metrohm in association with School of Environmental Sciences.

- The university has been able to establish research interaction with Arjuna Natural Extracts, Alwaye in a research programme supported by KSCSTE. Molecular mechanism of anti-diabetic activity of *Costus pictus* has been taken up under industry linked biotechnology programme, (sanctioned by Kerala Biotechnology Commission) with industry partner-Arjuna Natural Extracts, Alwaye.
- Companies such as Asian Paints, Apollo Tyres, MRF Tyres regularly interact with International and Interuniversity Centre for Nanoscience and Nanotechnology and School of Chemical Sciences for undertaking joint projects, patents, seminars and placement programmes.
- There was a three day National Workshop on Molecular Docking and Drug Designing in Collaboration with Bio Discovery Group Life sciences, Bangalore.
- The University is in the process of initiating a course on Quality Control and Quality Assurance in Food industry in collaboration with Shimadzu.

f. Internationalization:

- **Obama-Singh 21st Century Knowledge Initiative (2012):** Mahatma Gandhi University, Kottayam was selected for Obama-Singh 21st Century Knowledge Initiative by the University Grants Commission. The project involves collaborative research and related academic activities with Brown University, Duke University and Plymouth State University of USA. The joint venture, titled 'An Interdisciplinary and Community Oriented Innovative Approach towards Sustainable Development', witnessed collaboration in various spheres of activity between the School of Environmental Sciences and the Advanced Centre of Environmental Studies and Sustainable Development with the Department of Civil Engineering(of Brown University), the Centre for Environmental Implication of Nanotechnology (of Duke University) and the Department of Social Sciences (of Plymouth State University).
- There is a global understanding between North Carolina Agricultural and Technical State University (NCAT) and Mahatma Gandhi University to conduct various Massive Open Online Courses (MOOCs).
- The School of International Relations and Politics has three Memoranda of Understanding (MoU) signed with three universities/institutes. A MoU between the Institute of Political Studies (IEP) of Rennes, France and the School of International Relations and Politics, Mahatma Gandhi University has been in place. As part of this, French students have been admitted to the

MA Programme to do two semesters in the School. There is another MoU with the Sciences Po Bordeaux (IEP), France and students from France are admitted for two-semester studies in SIRP. Scholars from China also keep visiting SIRP in accordance with the Memorandum of Understanding (MoU) signed with the Institute of Chindian Studies, Jinan University, China in 2011.

- International and Interuniversity Centre for Nanoscience and Nanotechnology and School of Chemical Sciences have signed a large number of MOU's with academic institutes worldwide.
- Certain faculty members having adequate international teaching and research experience have been appointed as regular faculty of the university.
- International experts are invited to deliver seminars and interact with the students.
- Faculty members are also doing collaborative research with reputed international organizations. Faculty members have collaborated with academics from international universities to undertake joint research programmes and to publish research papers.
- Faculty members of the Schools have participated in international conferences held abroad viz., France, Russia, Slovenia, Germany, Spain, Austria, Poland, Czech Republic, Belgium, Italy, Brazil, USA, China, Japan, Korea, Thailand, Dubai, Singapore and Malaysia as plenary, keynote and invited speakers. Some of them chaired sessions too.
- Some students have done their internships abroad and participated in conferences/workshops and made notable contributions to science.
- Some students have won international awards and medals. The university gives the students unlimited computer and internet access which helps them to access open courses put up by world class universities and other learning material. They are given good guidance regarding further learning and career opportunities. Students get to interact with many researchers of international repute during workshops and seminars. During international conferences, brainstorming sessions are held to formulate international joint projects supported by Horizon 2020 (EU supported) and other bilateral projects supported by UGC, DST and DBT with the rest of the world.

6.2.2 Describe the university's internal organizational structure and decision making processes and their effectiveness.

There is well structured organizational set up and decision making system in the University. The provisions laid down in the Statutes of Mahatma Gandhi University, UGC/Government - guidelines are strictly adhered to in making policy decisions on many issues. At the macro level, the Vice-Chancellor is



the Principal Executive Officer, whereas the Registrar is the administrative Head.

The following are the major bodies of authority/decision making of the university:

- The Syndicate
- The Senate
- The Academic Council
- The Faculties
- The Boards of Studies
- The Planning Board

The **Syndicate** is the chief executive body of the university and consists of 25 nominated members. The executive powers of the university including the general management and control over all the institutions are vested in the Syndicate.

The **Senate** is the advisory body and assumes the following powers and functions:

- a. To review, from time to time, the general policies and programmes of the university;
- b. To suggest measures for the improvement and development of the university;
- c. To consider the annual report and the annual accounts of the university and the audit report on such accounts and to pass resolutions thereon;
- d. To advise the Chancellor on any matter referred to by him for advice.

It has 133 members, of which 23 are ex-officio members, 19 are members nominated by the Chancellor and the rest are elected members.

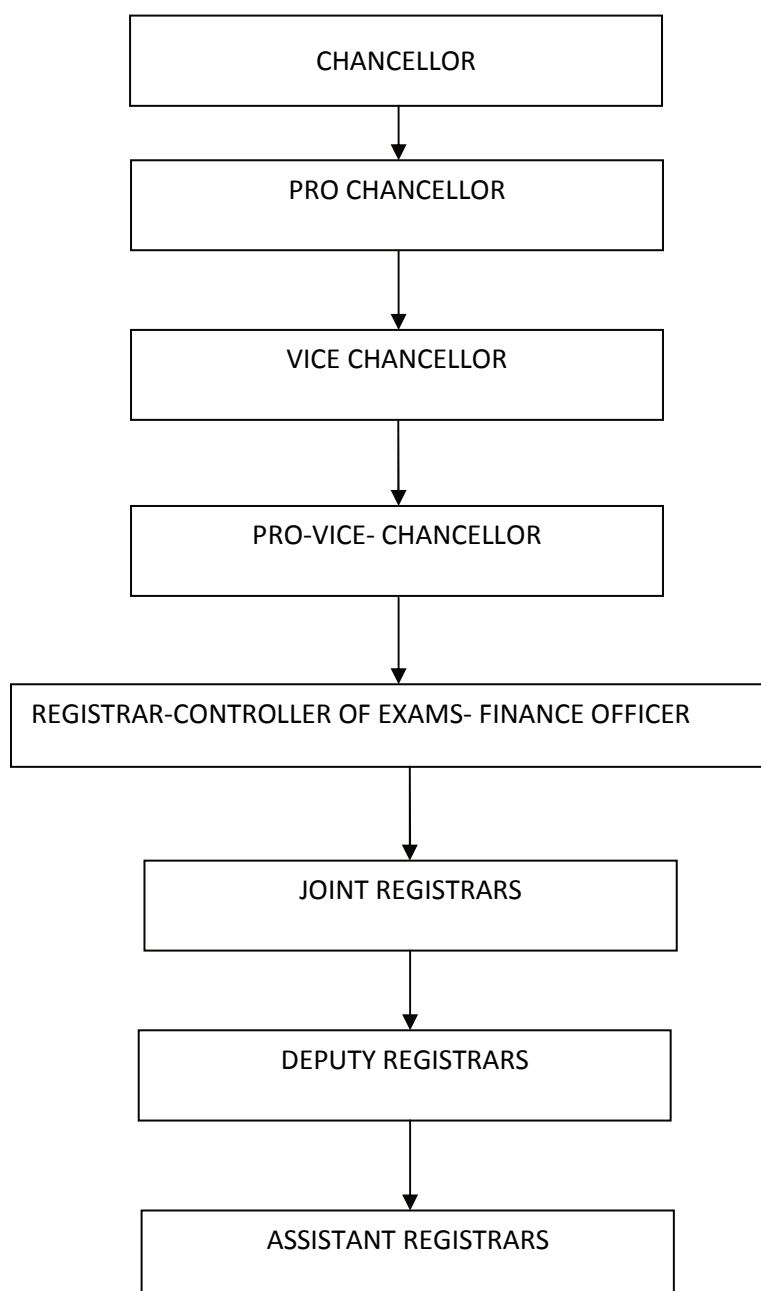
The Academic Council acts as the principal academic body of the university. Academic Council is responsible for the maintenance of standards of instructions, research, education and examination. It consists of 93 members. The Academic Council also co-ordinates and exercise general supervision over the academic programmes and policies of the university.

The Faculties are responsible for making recommendations and suggestions to the Academic Council on matters related to the organization of teaching, course of study, examinations, and research in the subject of study. There are 16 Faculties in the University. Dean is the head of each faculty. Also, Deans Committee can propose amendments to ordinances and regulations relating to academic matters for the consideration of the Academic Council.

Boards of Studies are the academic bodies monitoring the work of subjects of study. There are separate Boards of Studies, a total of sixty-nine in number for under graduate and post graduate studies.

The Planning Board advises the Syndicate and the Academic Council on any matter, which it considers necessary for fulfillment of the objectives of the University. It has 11 members.

THE HIERARCHY OF THE UNIVERSITY ADMINISTRATION





6.2.3. Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes. In order to ensure quality in academics, research and administration, university has developed a system. It involves planning, coordination, implementation and evaluation. Competent committees are constituted for the purpose.

- Faculty Councils of respective Schools/Centres frequently meet, discuss and make recommendations on academic priorities of the institution to the university.
- The feedback mechanism is constituted to gather inputs from students, researchers and stakeholders making improvements and taking corrective measures in performance of academic and non-academic departmental functions.
- The teaching staff is encouraged to attend periodic refresher and orientation programmes, seminars/workshops to enhance their field of expertise and knowledge.
- Boards of Studies in every discipline, Faculties and its Deans and Academic Council ensure quality in curriculum development and in revamping programmes according to the requirement.
- The university has an effective internal coordination and monitoring mechanism at the level of Deans through Deans Committee.
- The Syndicate meets generally once in a month.
- The doctoral Committee monitors the progress of the work by research scholars at every stage. Persons with subject expertise were constituted from external organizations to independently evaluate the research progress and thus to ensure quality in research.
- An effective IQAC consisting of various stakeholders constantly meet to discuss matters related to academic quality and submit proposals for quality enhancement
- Constant review meetings are held by the Vice-Chancellor with the Deans and Directors/HOD of Schools/Centres and the Principals of affiliated colleges to discuss matters of academic importance.
- The Registrar conducts formal meetings with the administrative staff frequently and the Vice-Chancellor meets them occasionally to review administrative progress.
- Record of attendance is automated through digital punching system to ensure regularity and punctuality among employees of the university.

6.2.4 Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?

Yes. Every statutory School and Centre has a Director and a Faculty Council. They are independent and autonomous in academic matters.

- Board of Studies (BOS) of each department decides on new courses and the course content is framed by Faculty. The recommendations of the BOS are ratified by the Academic Council.
- The Faculty Council takes decisions in a collective manner. Schools are provided with provisional funds to meet all contingency expenses, including purchases up to a particular limit.
- Schools and Centres have the freedom to invite experts and organize seminars, workshops and conferences.
- Schools and Centres being autonomous are given the freedom to conduct examinations and assessments.
- Academic audit, cross verification of exam related matters, financial audits, administrative control etc. are in place to ensure accountability.

6.2.5. During the last six years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

Yes. The details of cases are given below:

| Year | No. of cases |
|------|--------------|
| 2011 | 323 |
| 2012 | 213 |
| 2013 | 268 |
| 2014 | 233 |
| 2015 | 297 |
| 2016 | 194 |

The cases were filed concerning the following areas:

- a) Service matters- appointment, promotion, disciplinary action and seniority of teaching and non-teaching staff.



b) Students' matters- admission, examinations, attendance etc.

The judicial verdicts on all such cases are strictly followed and enforced in a time bound manner.

6.2.6. How does the university ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

- The university has a well-established mechanism to address the grievances of students, faculty members, non-teaching staff and general public.
- The faculty council of various schools/departments, chaired by the HOD, takes care of the issues of the students.
- There are various committees to take care of student's issues viz., anti-ragging committee, permanent cell to combat sexual harassment etc. These committees work independently on the complaints given by students/staff and report to higher authorities for further action. The students can also avail the services of the SC/ST cell of the University.
- Students have facilities within the university for getting their grievances redressed. Grievances are addressed at the first level by the Faculty Advisor followed by the Faculty Council. Grievances which are not resolved at the School/Centre level are considered by the University Grievance Redressal Cell.

6.2.7 Does the university have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes,

- Feedback from the students is obtained to assess the working of the Schools and Centres of the university.
- Specific student feedback on programmes, courses, teaching and evaluation methodology are also collected and analyzed.
- Faculty council uses the feedback for improving the existing academic programmes and administrative protocols.

6.2.8. Does the university conduct performance audit of the various departments?

Yes. Quarterly performance report of the Schools are collected, assessed and submitted to the Chancellor. Also, all the faculty members of the university prepare their Performance Based Assessment Report annually and these reports are audited by IQAC. IQAC Team headed by the Vice- Chancellor visits all the Schools and centres to assess the performance.

6.2.9. What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?

- University adopts proactive steps to identify the developmental needs of its affiliated institutions.
- The College Development Council (CDC) co-ordinates the faculty improvement and research projects/programmes of the affiliated colleges and also guides them to get grants from the UGC and other funding agencies.
- University organizes workshops on NAAC accreditation, choice-based credit and semester system, research methodology, conducts refresher and orientation programmes for college teachers etc. helping colleges to develop and grow independently.
- Faculty members are on the Boards of Studies of the affiliated autonomous colleges which helps in effective academic linkage.
- Sharing of research and library resources to the college students and teachers is another major facet. College students are allowed to do summer projects in the university.

6.2.10. Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.

- Yes. There is an active College Development Council (CDC) headed by a senior faculty member of the university and guided by an Advisory Committee headed by the Vice-Chancellor.

The following activities and achievements are reported during the assessment period.

Faculty Development Programmes: 235 teachers participated

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------|------|------|------|------|------|
| Minor Research Projects | 295 | 425 | 373 | 77 | |
| Major Research Projects | 28 | 12 | 4 | | |
| UGC Sponsored seminars | 85 | 61 | 122 | 84 | |
| Non-UGC Sponsored seminars | 2 | 4 | 1 | 2 | |



| | | | | | |
|--|----|----|-----|---|--|
| Development Assistance (no of colleges): infrastructure development(digital labs, library, class rooms etc) | 55 | 74 | 119 | Nil | |
| Colleges with Potential for Excellence | - | - | 2 | 9 | 6 |
| No of colleges conducting Career Oriented Add-on programme | 25 | 28 | 28 | 28 | 28 |
| Skill Development Programmes (Community Colleges,B Voc,Kaushal Kendra,ASAP | | | 8 | 22 | 26 |
| Substitute Approval Given | 54 | 40 | 49 | 21 | 85 |
| Special Heritage Status to College | | | | Forwarded application of Maharajas College, Ernakulum | CMS College,Kottayam awarded Rs. 4.08 crores by UGC. |

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made to enhance the professional development of its teaching and non-teaching staff?

Involvement in research activities is treated as one of the outlets for exposing the professional talents of the teaching faculty. Acknowledging this fact, the institution promotes all initiatives on the part of the teaching faculty for research oriented programmes. They include:

- Wholehearted support to the faculty to pursue their Ph.D by rendering them the facilities of Faculty Development Programme (FDP).



- Encouraged to conduct sponsored and self-funded national and international seminars, workshops and conferences in the campus to gain exposure on the emerging trends.
- Gives ample support for applying for patents and publication of peer reviewed as well as non-peer reviewed papers in research publications.
- Duty leave is sanctioned to those who attend seminars, camps, conferences, refresher and orientation courses. Leave with service benefits are given to teachers for undertaking post-doctoral research. Many facilities like sabbatical leave, study leave, travel grants, special casual leave etc. are provided to faculty members. Provision is made for reorganizing the teaching schedule to facilitate research work.
- The University encourages and sponsor teachers to attend seminars, conferences and workshops related to quality enhancement, technology upliftment etc.
- Experts from other institutions are invited to deliver lectures which helps faculty empowerment.
- Workshops on innovative teaching methods including use of ICT are organized.
- Provides the latest technological aids, ICT facilities and training, besides full time internet facility, to enhance the professional competence of the staff.
- Teachers have been advised to find diverse funding agencies for conducting research projects.
- Orientation programmes aimed towards reorienting the faculty and non-teaching staff towards their profession is handled by renowned academics and trainers.
- Takes due care to promote the professional competence of its non-teaching staff also. Latest electronic gadgets have been provided for the effective implementation of the administrative decisions of the university. They are encouraged to develop and sharpen their personal and administrative capabilities. The institution ensures the effective functioning of the non-teaching staff through regular monitoring. The non-teaching staff is given yearly orientation classes to improve their quality and to familiarize them with the latest technological advancement necessary for the effective functioning of the institution.
- The university regularly conducts national/international seminars/conferences, faculty development programmes/ refresher courses /workshops to improve the skills of its faculty members.



- Eminent academics and scientists are invited to give talks for the enrichment of students and faculty members.
- The university has begun computerization of the administrative/ academic and financial procedures to streamline governance.
- Staff are given hands on training to implement innovative programmes.
- Moreover, they are sent to other institutions to undergo various training programmes organized by universities/ management/ administrative bodies.
- The institution has made adequate budget allocations from its own financial resources to help the staff members in their quest for professional development.
 - Extended library and internet facilities, latest laboratory equipment are made available for staff members to pursue research.
 - The faculty members who complete their PhD while in service are duly recognized and rewarded with additional increments.
 - The staff who have obtained awards/recognitions from external agencies are felicitated.
 - Collaborative programmes with industry and other institutions in strengthening faculty development programmes.
 - Has also subscribed to INFLIBNET, EBSCO membership through N-LIST programme which gives access to 2500 e-Journals and 55000 e-Books.
 - The library staff is nominated for various conferences and workshops on knowledge management and other emerging areas.

6.3.2 What is the outcome of the review of the various appraisal methods used by the University? List the important decisions.

The important appraisal methods used for evaluating the faculty members are:

Performance based appraisal system for promotion under Career Advancement Scheme (CAS), annual self-appraisal of the teachers and student assessment of the teachers. These appraisal methods have enabled to improve the teaching, learning and evaluation activities as well as the co-curricular, extension and professional development of the teaching community. The appraisal and the assessment reports help to give concrete suggestions to the faculty for betterment in their weaker areas, thus form a mechanism for teacher improvement.

The University Research Committee (URC) monitors the research activities, and put forth recommendations and suggestions for improvement. It also

formulates measures for maintaining the quality of research in the university schools/centres.

6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefited from these schemes in the last six years? Give details

- Provides accommodation facilities to both teaching and non-teaching staff on a priority basis.
- Provident fund facilities.
- Emergency healthcare facility.
- Transport facility.
- The university also provides other welfare schemes for its teaching and non-teaching staff. They are;
 - ✓ Medical Reimbursement
 - ✓ House loan
 - ✓ Group Insurance Scheme and Life Insurance Scheme- 100% of the teaching and non-teaching staff are covered under this scheme.
 - ✓ Facility of Day Care in the campus
- Besides there is an Employees Cooperative Society which caters to the financial and social needs of its members offering several welfare schemes, like ordinary/short term financial loans, education loan, consumer loan, housing loan and advance payment against salary. A vast majority of the teaching and non-teaching staff make use of these facilities.

6.3.4 What are the measures taken by the university for attracting and retaining eminent faculty?

- The selection to various faculty positions in the university is merit based, adhering to the existing government regulations on community reservations.
- Vacant positions and opportunities in the university are widely publicized through reputed print media and university web site.
- Facilities available in the university are highlighted to attract talented faculty.
- Networking with reputed industries/institutions.
- Existence of merit based and timely promotions of faculty.
- Greater opportunities and support for career advancement.



- Attractive incentives to international faculty to take academic sessions on sabbatical.
- Financial support for research/ paper publications.
- Complete freedom in academic work.
- Providing excellent laboratory facilities.
- Encouragement for taking up research projects.
- Excellent infrastructural facilities are provided to academic.
- Facilities for carrying out collaborative research works with institutions at the national and international levels.

6.3.5 Has the university conducted a gender audit during the last four years? If yes, mention a few salient findings.

- Yes. The university conducts gender audit to ensure gender equality and to promote balanced gender based opportunities in the university.

| Staff | | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|--------------------|-------|---------|---------|---------|---------|---------|---------|
| Teachers | Women | 34 | 34 | 34 | 33 | 33 | 25 |
| | Men | 75 | 75 | 72 | 72 | 70 | 65 |
| Non-Teaching staff | Women | 603 | 601 | 579 | 582 | 569 | 631 |
| | Men | 1210 | 1221 | 1135 | 1108 | 1049 | 988 |
| Students | Women | 5195 | 5201 | 5095 | 5225 | 5209 | 5171 |
| | Men | 1922 | 1938 | 2001 | 1938 | 1999 | 1996 |

GENDER AUDIT (PG STUDENTS)

The Salient features noted are as follows:

- 1) More than 70% PG students are women.
- 2) More than 85% M.Phil students are women.
- 3) More than 60% research scholars are women.
- 4) Among faculty members, 72.22% are men and 27.78% women.
- 5) Among non-teaching staff, 61.02% are men and 38.98 % women.

6.3.6 Does the university conduct any gender sensitization programmes for its faculty?

The Mahatma Gandhi University celebrates international days like Women's Day, Malala Day, Mother's Day, etc. Faculty and students attend various women empowerment programmes conducted by the Women's Club of the University.

6.3.7 What is the impact of the University's Academic Staff college Programmes in enhancing the competencies of the university faculty?

The university does not have an Academic Staff College. Despite the absence of such an institution, the university regularly conducts empowerment programmes for its teaching faculty. It also encourages and sends teachers for faculty development programmes carried out by other universities/institutions.

6.4 Financial Management and Resource Mobilization

6.4.1. What is the institutional mechanism available to monitor the effective and efficient use of available financial resources?

- The administration of budget is under the supervision of the Vice Chancellor and Registrar. Specified financial powers are ensured for the Vice Chancellor, Registrar and Heads/Directors of the Schools/Centres.
- The Statutory Finance Committee of the Syndicate meets at least once in every three months to review the financial position of the university and to scrutinize the proposals for receipts and expenditure. The finance wing of the university under the Finance Officer monitors the effective and efficient use of financial resources. Budget is prepared every year and allocation is made under different heads for various activities of the institution.

The institutional mechanism was constituted to monitor the use of financial resources effectively that includes the following measures:

- Identification of priority requirements needed for various academic and infrastructural needs.
- Allocation of budget based on identified priorities and re-allocation of grants for meeting the desired objectives.
- Strategies for mobilization of financial resources by following transparency and procedural rules for effective monitoring of expenditure.



6.4.2. Does the University have a mechanism for internal and external audit? Give details

- There is a pre-audit mechanism for auditing all expenses of the university.
- Kerala State Audit Department, is conducting concurrent audit of all transactions of the university.
- Apart from the above, the annual accounts are audited by the office of the Accountant General.

6.4.3 Are the institutions accounts audited regularly? Have there been any major audit objections, if so, how were they addressed?

Yes. Audit objections/observations raised through financial audits have been regularly addressed and corrective steps have been taken by the university. One of the major audit objections raised by the audit wing was in connection with the practice of awarding construction projects to Central Public Works Department (CPWD) of Government of India without open tenders, and accordingly e-tender mechanism has been introduced.

6.4.4 Provide audited income and expenditure statement of academic and administrative activities of the previous six?

- Audited Income & Expenditure Statement for the Year 2010-2011

| Income | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Grants from State Government-Non-Plan | 3098 |
| Grants from State Government-Plan | 800 |
| Grants from U G C –Plan | 310.12 |
| Internal Receipts- Affiliation Fee, Exam Fee, Certificates fee etc | 3457.66715 |
| Other Grants from State Government | 910.5 |
| Research Projects | 549.50971 |
| Scholarships/ Fellowships | 332.90483 |
| Others | 33.76226 |
| Total | 9492.46395 |

| Expenditure | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Salary, Pension | 5886.799 |
| General & Administrative Expenses-Non-Plan | 319.8936 |
| Examination Expenses | 1053.093 |
| Academic Departments-Recurring Expenses | 50.03999 |
| Academic Centre- Recurring expenses | 0.00 |

| | |
|--|-----------------|
| Other Departments- Physical Education , DSS etc- Recurring expenses | 69.27385 |
| Grants & Scholarships | 102.3543 |
| Miscellaneous | 12.81514 |
| General & Administrative Expenses-Plan(Non- Recurring) | 244.8744 |
| Academic Departments-Non-Recurring Expenses | 465.0315 |
| Academic Centres- Non-Recurring expenses | 0.00 |
| Other Departments- Physical Education , DSS etc- Non-Recurring expenses | 593.042 |
| Research Projects | 1339.243 |
| Scholarships/ Fellowships | 143.2163 |
| Others | 44.65244 |
| Total | 10324.33 |

• Audited Income & Expenditure Statement for the Year 2011-2012

| Income | |
|---|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Grants from State Government-Non-Plan | 371.6 |
| Grants from State Government-Plan | 1000 |
| Grants from U G C -Plan | 627.7548 |
| Internal Receipts- Affiliation Fee, Exam Fee, Certificates fee etc | 4177.405 |
| Other Grants from State Government | 244 |
| Research Projects | 799.8491 |
| Scholarships/ Fellowships | 522.0676 |
| Others | 56.76825 |
| Total | 11145.45 |

| Expenditure | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Salary, Pension | 7859.209 |
| General & Administrative Expenses-Non-Plan | 319.7995 |
| Examination Expenses | 1443.219 |
| Academic Departments-Recurring Expenses | 47.6803 |
| Academic Centre- Recurring expenses | 0 |
| Other Departments- Physical Education , DSS etc- Recurring expenses | 82.46937 |
| Grants & Scholarships | 111.0341 |
| Miscellaneous | 22.95858 |
| General & Administrative Expenses-Plan(Non- Recurring) | 113.416 |



| | |
|--|-----------------|
| Academic Departments-Non-Recurring Expenses | 313.2135 |
| Academic Centres- Non-Recurring expenses | 0 |
| Other Departments- Physical Education , DSS etc-Non-Recurring expenses | 1259.237 |
| Research Projects | 657.8938 |
| Scholarships/ Fellowships | 269.4692 |
| Others | 9.45748 |
| Total | 12509.06 |

• Audited Income & Expenditure Statement for the Year 2012-2013

| Income | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Grants from State Government-Non-Plan | 4528 |
| Grants from State Government-Plan | 1400 |
| Grants from U G C -Plan | 217.06 |
| Internal Receipts- Affiliation Fee, Exam Fee, Certificates fee etc | 4865.556 |
| Other Grants from State Government | 550 |
| Research Projects | 468.7142 |
| Scholarships/ Fellowships | 298.4616 |
| Others | 53.91 |
| Total | 12381.7 |

| Expenditure | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Salary, Pension | 9883.47 |
| General & Administrative Expenses-Non-Plan | 328.4881 |
| Examination Expenses | 1660.515 |
| Academic Departments-Recurring Expenses | 60.82387 |
| Academic Centre- Recurring expenses | 47.68095 |
| Other Departments- Physical Education , DSS etc-Recurring expenses | 85.99962 |
| Grants & Scholarships | 58.09979 |
| Miscellaneous | 10.58399 |
| General & Administrative Expenses-Plan(Non-Recurring) | 152.4976 |
| Academic Departments-Non-Recurring Expenses | 408.498 |
| Academic Centres- Non-Recurring expenses | 366.5215 |
| Other Departments- Physical Education , DSS etc-Non-Recurring expenses | 851.5972 |
| Research Projects | 810.5997 |
| Scholarships/ Fellowships | 413.3836 |
| Others | 22.88327 |
| Total | 15161.64 |

- Audited Income & Expenditure Statement for the Year 2013-2014

| Income | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Grants from State Government-Non-Plan | 3990 |
| Grants from State Government-Plan | 1600 |
| Grants from U G C -Plan | 337.74 |
| Internal Receipts- Affiliation Fee, Exam Fee, Certificates fee etc | 6154.956 |
| Other Grants from State Government | 0 |
| Research Projects | 649.2815 |
| Scholarships/ Fellowships | 335.6521 |
| Others | 311.3887 |
| Total | 13379.02 |

| Expenditure | |
|---|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Salary, Pension | 10311.67 |
| General & Administrative Expenses-Non-Plan | 412.9259 |
| Examination Expenses | 1629.577 |
| Academic Departments-Recurring Expenses | 52.69909 |
| Academic Centre- Recurring expenses | 78.4576 |
| Other Departments- Physical Education , DSS etc- Recurring expenses | 58.70481 |
| Grants & Scholarships | 157.0008 |
| Miscellaneous | 10.08872 |
| General & Administrative Expenses-Plan(Non-Recurring) | 11.09216 |
| Academic Departments-Non-Recurring Expenses | 231.8978 |
| Academic Centres- Non-Recurring expenses | 431.0571 |
| Other Departments- Physical Education , DSS etc- Non-Recurring expenses | 726.5627 |
| Research Projects | 580.9308 |
| Scholarships/ Fellowships | 383.3289 |
| Others | 239.6784 |
| Total | 15415.5 |



- Audited Income & Expenditure Statement for the Year 2014-2015

| Income | |
|---|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Grant from state Government- Non- Plan | 7182 |
| Grant from state Government- Plan | 2150 |
| Grant from UGC -plan | 0 |
| Internal Receipts- Affiliation Fee, Exam Fee, Certificates Fee, ect | 7284.15706 |
| Other Grant from State Government | 100 |
| Research Project | 468.64025 |
| Scholarships/ Fellowships | 97.78823 |
| Others | 57.80731 |
| Total | 17340.39285 |

| Expenditure | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Salary, Pension | 11445.41 |
| General & Administrative Expenses-Non-Plan | 1072.142 |
| Examination Expenses | 1699.805 |
| Academic Departments-Recurring Expenses | 76.71148 |
| Academic Centre- Recurring expenses | 98.3975 |
| Other Departments- Physical Education , DSS etc-Recurring expenses | 267.9188 |
| Grants & Scholarships | 152.6465 |
| Miscellaneous | 8.04358 |
| General & Administrative Expenses-Plan(Non-Recurring) | 313.8549 |
| Academic Departments-Non-Recurring Expenses | 310.1476 |
| Academic Centres- Non-Recurring expenses | 305.6284 |
| Other Departments- Physical Education , DSS etc-Non-Recurring expenses | 1424.56 |
| Research Projects | 638.4827 |
| Scholarships/ Fellowships | 106.5261 |
| Others | 435.7539 |
| Total | 18356.03 |

• Audited Income & Expenditure Statement for the Year 2015-2016

| Income | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Grants from State Government-Non-Plan | 8618.4 |
| Grants from State Government-Plan | 2300 |
| Grants from U G C -Plan | 112.5 |
| Internal Receipts- Affiliation Fee, Exam Fee, Certificates fee etc | 6956.254 |
| Other Grants from State Government | 0 |
| Research Projects | 482.38 |
| Scholarships/ Fellowships | 54.01718 |
| Others | 11.0158 |
| Total | 18534.57 |

| Expenditure | |
|--|-----------------------------|
| Item | Amount (Rs.in lakhs) |
| Salary, Pension | 12409.14 |
| General & Administrative Expenses-Non-Plan | 514.6057 |
| Examination Expenses | 1905.302 |
| Academic Departments-Recurring Expenses | 169.418 |
| Academic Centre- Recurring expenses | 92.41606 |
| Other Departments- Physical Education , DSS etc-Recurring expenses | 587.0389 |
| Grants & Scholarships | 243.0593 |
| Miscellaneous | 80.20441 |
| General & Administrative Expenses-Plan(Non-Recurring) | 864.3152 |
| Academic Departments-Non-Recurring Expenses | 438.9014 |
| Academic Centres- Non-Recurring expenses | 140.9498 |
| Other Departments- Physical Education , DSS etc-Non-Recurring expenses | 839.0251 |
| Research Projects | 224.1647 |
| Scholarships/ Fellowships | 89.21451 |
| Others | 12.20466 |
| Total | 18609.96 |



6.4.5. Narrate the efforts taken by the University for Resource Mobilization?

- University receives huge quantum of funding from many funding agencies such as DST, DBT, DRDO, UGC, AICTE, ISRO, ICSSR, DRNS, UGC-DAE, TWAS, DIT etc.
- University also receives industrial funding from MRF Tyres, Apollo Tyres, General Cables, USA, Surface Treat, Czech Republic etc.
- University also receives international funding through DST-DAAD, DST-Italy, DST-Poland, DST-South Africa, DST-Croatia, India-Sweden project etc.
- University encourages faculty members to get funding from external funding agencies.
- University is revising the fees for various services, from time to time.
- Schools/Centres are encouraged, to augment the resources through Department Developmental Fund.
- Generating consultancy services – testing and instrumentation charges.
- Resources are generated from external funding agencies for conducting seminars, conferences and workshops.

6.4.6 Is there any provision for the university to create a corpus fund? If yes, give details.

Yes. University is authorized by relevant University Act to create a corpus fund. Corpus fund is generated through various sources and is kept as fixed deposit in the State Bank of Travancore.

6.5 INTERNAL QUALITY ASSURANCE SYSTEM

6.5.1 Does the university conduct an academic audit of its departments? If yes, give details.

Yes. Internal academic auditing mechanism is in place. The academic audit was performed for all the University Departments. The IQAC expert committee led by the Vice Chancellor has made periodic visits for conducting academic audit in various Schools. For auditing of the inter-university and interschool centres, the respective Directors were called for a presentation of their academic activities where they highlighted the strengths, weaknesses, opportunities and challenges. Suggestions for improvement were made through this brainstorming activity. Feedback of experts were taken up for remedial measures.

6.5.2 Based on the recommendations of the academic audit, what specific measures have been taken by the university to improve teaching, learning and evaluation?

Feedback obtained from the academic audit is communicated to the concerned Heads of the Schools/Centres for further improvement. The outcome is as follows:

- Traditional class rooms were converted into smart class rooms.
- Review and updating of syllabus, content and course structure were carried out through the CSS mechanism.
- New teaching methodologies like flipped class room, edmodo- an online interactive learning method, MOOC, Webinars etc were introduced.
- Interaction of students with external experts/visiting faculty through Erudite programme in which sixty eminent academics, including seven Nobel Laureates delivered lectures. Other programmes include Diplomatic Lecture Series, Industry-Institute interaction many a time involving alumni, Scholar-in-Residence Programme funded by the state Government, Memorial lectures held to commemorate the contributions of distinguished faculty who have served in different Schools etc.
- Freedom to select courses/electives within the programmes were introduced to help students.
- The system of assessment through continuous internal and end semester assessment has been further strengthened.
- Increase in the number of international and national seminars organized within and outside the campus.
- Number of MoU's with partnering organizations and academic collaborations has increased.

6.5.3 Is there a central body within the university to continuously review the teaching-learning process? Give details of its structure, methodologies of operations and outcome?

Teaching-learning processes are continuously reviewed by the Faculty Council at departmental level and Academic Council at university level. The process is also reviewed through the Performance Based Appraisal System (PBAS) and feedbacks from students. As a result, subsequent suitable modifications are done in syllabus, teaching and evaluation process, besides strengthening learning resources and facilities. Regular faculty council meetings discuss teaching – learning issues.



6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and process?

The IQAC has institutionalized several good practices to improve, assure and sustain quality in teaching, learning, research, infrastructural development and administration of the university. By introducing academic audit and administrative audit, IQAC facilitated internal quality checks for the university. Feedback in the form of surveys to assess teaching- learning process, socio-economic development, differential requirements of various stakeholders, pace of infrastructural development were taken up and qualitative measures were recommended for implementation. The IQAC has monitored self-appraisal by teachers and grievance redressal mechanism which are effective internal quality checks. IQAC evolved strategies to improve the academic and administrative functioning of the university through recommendations which were made after brainstorming.

6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the University for Implementation?

The recommendations on syllabus revision, website updating, web based solutions for efficient management of institutional data, infrastructure development, updation of existing facilities, barrier free transportation and accessibility, water conservation, well recharging strategies, energy audit, environment audit, gender audit, preparation of student profile report, honouring the PhD holders, faculty-publisher interface, national and international collaboration, comprehensive waste management etc., were placed before the authorities for approval and implementation. Forty decisions taken by IQAC for qualitative improvement in various spheres were placed before the statutory authorities of the university for implementation.

6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members?

Yes. The valuable contributions of the external members including representatives of panchayatraj bodies, industry etc is notable. The industrial representative from MRF Ltd. gave directions for improving industry-university linkages. Active participation and practical suggestions from the part of external members have contributed to the decisions taken by the IQAC.

6.5.7 Has the IQAC conducted any study on the incremental academic growth of the students from disadvantage sections of the society?

Yes. The IQAC reviewed the academic growth of the students from disadvantaged sections of society and found a better performance and output from them, which may be attributed to the efforts taken by the university for providing them with proper support and facilities. A comprehensive student profile report was prepared after conducting a study among the students. An access audit was conducted to study the differential requirements of the

differently abled in achieving academic excellence and remedial measures were taken up.

6.5.8 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centers, etc.?

- The IQAC conducts periodic review of the administrative and academic functioning of the university and academic departments and recommends suitable measures. Through academic and administrative audit, IQAC facilitated internal quality checks for the university.
- Academic autonomy is provided to Schools/Centres to offer academic programmes of global relevance, updating of curriculum, introduction of latest teaching-learning methodologies, to carry out cutting edge research activities, to enter into national and international academic collaboration, to carry out research projects through funding from various national and international funding agencies, to explore extension activities, to render consultancy services etc.
- Regular review meetings are held at the department level to formulate policies to strengthen the functioning of Schools/Centres which function as research centres in various domains of knowledge.
- Periodic research committee meetings to evaluate quality and progress of the research work carried out by the research scholars at the department level and also to resolve various administrative issues of research scholars.
- Evolving effective feedback mechanism from the stake holders.
- Carry out additional skill development programmes for the students.
- Augmenting research collaborations and linkages with leading institutions within the country and outside.
- Computerization of administrative, finance, examination, admission sections etc has resulted in the fast periodic review of various administrative functions.

A decorative scroll graphic with a light gray background and a black outline. The scroll is unrolled in the center, with the text "CRITERION VII: INNOVATIONS AND BEST PRACTICES" written in a bold, black, serif font. The scroll has rounded corners and a small gray circle at the top right corner.

**CRITERION VII: INNOVATIONS
AND BEST PRACTICES**



CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

The university took several initiatives towards generating environmental consciousness amongst its stakeholders through activities involving students, teachers, administrative staff and the general public. The main campus at the Priyadarsini Hills as well as the satellite campuses are maintained as eco-friendly models with greenery that reflects the environmental policy of the university. The university has introduced environmental studies as a component in all the UG and PG programmes.

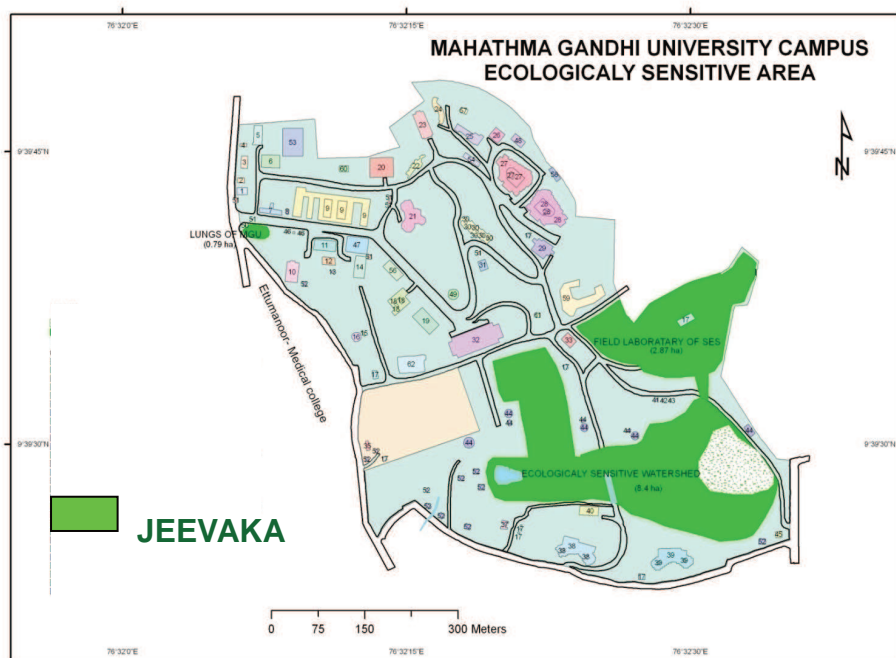
The School of Environmental Sciences, a pioneer in the field of environmental studies and research organizes field training and awareness for college and school students under its 'One day in the campus' programme. Seminars/workshops on environmental issues were conducted at national and international levels for the researchers and students. "Train the trainers programme on environmental management" is regularly conducted. The other important environment-related events conducted include

- World Wetland Day (February 2nd)
- World Water day (March 22nd)
- Earth Day (April, 22nd)
- World Biodiversity Day (May 22)
- World Environment Day (June 5th)
- Ozone Day (Sept 16)
- National Wildlife Week (October 2-8)
- A comprehensive field guide on the 'Butterflies of MG University Campus' was published.
- Booklets on themes like Water, Energy, Indoor Air Pollution, Health and Heavy Metals etc. were published by ACESSD to enhance environmental literacy and awareness among students and the general public.
- Programmes to enrich environmental consciousness were conducted by the Nature Clubs of School of Environmental Sciences and School of Biosciences. Nature study tours were also conducted to eco sensitive locations of Western Ghats.
- Students are made aware of the importance of sustainable growth and ecological issues by arranging talks under the auspices of the Nature Clubs.
- Extensive survey of the flora and fauna of the various campuses have been carried out.
- The university community participated in planting seedlings of trees of ever green species in collaboration with the Forest department.
- **Jeevaka Live Laboratory:** As an outcome of one of the group project



works of the PG students of this school, the university has declared a patch of land (12 ha. land) as Live laboratory of the school and an option is given in the curriculum to monitor routinely the biodiversity, ecosystem process and eco-hydrology of this live laboratory. With this live laboratory, the students are getting field experience on what they were taught in the theory classes. The Jeevaka Live laboratory is the major watershed in the campus and the conservation of this area helps in water conservation too.

- **Butterfly Garden:** The School also maintains a butterfly garden since 2009. The PG students and PhD scholars maintain this unique garden in the campus.
- **Waste Management:** The School of Environmental Sciences has its own waste management system – mainly for the degradable waste. The school has installed a biogas plant of 0.75m³ capacity in its campus by using the fund raised by the school through one of its projects funded by DoECC – Dept of Environment and Climate Change, Govt of Kerala. This biogas plant is being used to manage the food waste of the school.
- **Energy Conservation:** The faculty and students of the school undertook a group project work to conduct an energy audit for the entire university campus. As a part of it, the Environment Science building was also audited and conservation measures suggested in the report are being followed.





As had part of the *National Energy Conservation Day – 2015*, the MSc students of the school had undertaken a mini-project on reaching energy conservation at community level. This extension project with a main theme of *Social Education and creation of Environmental awareness* was started in January 2015 and continued till May 2015. In this work, 190 households spread across the state were studied. The students also did a survey of the electrical energy consumption at each household in the month of January 2015. Then they distributed pamphlets on energy conservation tips to each family and took a class on the same explaining the benefits to the household, nation and ultimately to the environment. The students have also followed-up each family once in every two months.

Result: Towards the end of this project in May 2015, the survey of electricity consumption was recorded in these 190 households and it was noted that these households have conserved 2585 units. The per capita electrical energy consumption has come down from 43 units to 39 units during the study period.

- **Water Harvesting:** In the student project report on solid waste management, it has been pointed out by the students that the campus has ample scope for roof top harvesting of rain water. Very recently the school has built a roof-top rainwater harvesting structure of 65,000 litres and developed a unique system as part of this rain water harvesting tank in which the coolant water from the water distillation stills are reused by circulating the water through the water harvest tanks, so that huge quantity of fresh water could be saved.
- **Check Dam:** Inside the Jeevaka Live Laboratory of the School of Environmental Sciences, there exists one check dam which was recently desilted resulting in the strengthening of its walls thereby improving the percolation system. The Faculty members and students of the school played a pivotal role in this process.
- Many schools offer courses in Ecology and Environment as part of their PG, MPhil and PhD programmes.

7.1.1 Does the University Conduct a Green Audit of its Campus?

Yes. As part of the progressive efforts initiated by Mahatma Gandhi university towards a sustainable future, a comprehensive Green Audit has been conducted. The responsibility of conducting the Energy Audit was assigned to Kerala State Productivity Council –a Kerala state government undertaking and Environment Audit was assigned to the School of Environmental Sciences (SES). A team consisting of faculty members and students of the school has completed the task in a span of three months.

The entire MGU campus – for the convenience of conducting Environment Audit (EA) – was categorized in to four sectors, viz.: Academic,



Administrative, Residential and Cafeteria sectors. Environment Audit was conducted by collecting water and soil samples; conducting interviews with various stakeholders, questionnaire based surveys and intensive field studies.

Sufficient number of samples of water, soil and solid waste were collected from each sector cited, and the samples were analyzed using standard methods and statistical tools in order to arrive at proper conclusions.

The summary of the Audit findings are:

- **Water Audit**

The quality of water available in the various water resources of the campus were studied by collecting water samples and by conducting a survey on the quantum of water being utilized in the campus.

The findings indicate that most of the water samples tested for various parameters of water quality test are within the permissible limits of the BIS (Bureau of Indian Standards) standards prescribed for drinking purpose. However, a few samples exceed these limits. For instance, Coliform count – an important water quality parameter of drinking water – has exceeded the standard limit (which is 0 count) in 40% of the samples tested. Out of these, two samples have very high Coliform counts of 460 which indicate that this site / water body may be severely contaminated with fecal matter.

The survey on water consumption indicates the residential sector consumes the maximum quantum of water while the cafeteria sector consumes the least. More attention is needed to conserve water usage in all sectors as the campus faces water scarcity during the summer months.

- **Soil Audit**

Most of the tested soil samples indicate that they are acidic in nature; Carbon-Nitrogen (C/N) ratio was found to be less indicating the high nitrogen availability in the soil. High level of available phosphorus and potassium indicate the fertile nature of the soil.

- **Solid Waste Audit**

The quantity of solid waste being generated in the campus includes a total of 563 kg /day of food waste; 82.86 kg /day of paper waste and 31.04 kg of plastics /day. The major share of food waste in the total quantum of waste generated in the campus indicates that there exists scope for recovery of energy / manure from it provided proper waste management practices are implemented. As on date, two biogas plants are functional in the campus (One at School of Environmental Sciences and another one close to the canteen near to School of Pure and Applied Physics) and both these plants are being fed with food waste. Besides this, there exists no proper management practice

with the aim of recovery of material or manure or energy from the huge quantity of food waste being generated in the campus. In general, the current waste management practices of the campus need more improvement.

- **Biodiversity Audit**

The biodiversity of the MGU campus is rich with 268 identified plant species of which 19 are endemic. Faunal diversity is also rich with 168 species which include dragon flies, butterflies and birds. Jeevaka live laboratory is the major spot of biodiversity richness which needs proper fencing and conservation. The construction activities are identified as major threat to the campus biodiversity.

- **General Cleanliness and Sanitation Facilities Audit**

The findings of the social survey indicate that the university community is happy with the cleanliness being maintained in the campus with 100% of the survey respondents agree with this view. However in the academic sector, only 75% of the respondents agreed with this view.

- **Energy Audit:**

A detailed energy audit was conducted by Kerala State Productivity Council, a Kerala Government undertaking in the main campus and nine other associate campuses. The audit covered electrical distribution system, energy consumption pattern, scope for energy efficiency, importance of lighting, air conditioning, water pumping system, captive power generation, system harmonics, renewable energy applications, infrared thermal imaging, energy conservation building code and carbon foot print etc. The audit helped the university to assess the amount and pattern of consumption of power and evaluate what measures can be taken to improve the efficiency. The annual electricity consumption in the main campus is 147920 KWH and that in the associated campuses is 145461 KWH. Based on the present energy consumption, certain proposals were put forward for reducing the energy consumption. These include:

1. Energy savings by replacing the old inefficient window AC unit at the administrative building (basement) by a new energy efficient AC unit.
2. Energy saving with the replacement of 36/40 Watts fluorescent Lamps connected at various buildings by energy efficient LED lamps of 18 Watts.
3. Replacement of incandescent bulbs and compact fluorescent by LED lamps at campus buildings.
4. Energy saving by replacing various types of lamps provided at outdoor areas of campus with LED lamp.



5. Energy savings by replacing ordinary ceiling fans (80 watts) provided at various buildings of MG University campus by 5 star rated energy efficient fan (50 watts).
6. Energy savings by operating the 40 HP pump solely for the water requirements in the campus instead of existing lower rated pumps and shifting the pump operation to off-peak period.
7. Energy savings by installing bio gas from food waste.

7.1.2 What are the initiatives taken by the university to make the campus eco-friendly?

Energy Conservation

- University has taken measures to replace all incandescent light bulbs in the campus with energy efficient CFL/ LEDs in a phased manner.
- University has introduced energy efficient LCD and TFT computer monitors.
- Provision of master switch to enable to switch off all fans/ lights, at the end of work.
- Efforts have been made to enhance natural light and ventilation in new constructions enabling lesser consumption of electrical energy during the daytime.

Use of Renewable Energy

- Efforts are underway to introduce roof-top solar power generators to generate solar power of 400 KWP in the main campus and to reduce conventional power consumption at an estimated cost of Rs.3,26,49,600/-.

One biogas plant of 3 cubic meter capacity that handles 125 kg of waste has been installed. The construction of a biogas plant with a capacity of 15 cubic meter which can handle 225 kg of biodegradable solid waste per day at an installation cost of Rs.5,00,000/- is underway.

Water Harvesting

- Rain water harvesting has been done in a big scale in most of the existing buildings and the university has one of the biggest water conservation ponds in the country with a size of 53 m x 40 m x 22 m. It holds approximately 4.5 crores litres of water which meets the water needs of the university.
- Rain water harvesting features are made mandatory in all the new/proposed constructions in the university.

- A roof-top rainwater harvesting structure of 65,000 litres was installed in the School of Environmental Sciences as a pioneering project where the coolant water from the water distillation stills are reused by circulating the water through the water harvest tanks, so that a good quantity of fresh water could be saved.
- University initiated measures to recharge seven wells and one more quarry with rain water collected from roof top of buildings through an innovative well recharging mechanism.

Check Dam Construction

- There is one check dam which could hold 48 lakhs litres of water with a size of 80 m x 20 m x 3 m inside the Jeevaka Live Laboratory- the pristine 12 hectare protected major water shed in the campus. Recently the check dam has been de-silted and its walls have been strengthened and its percolation system has been improved by the university. The check dam which is maintained as part of this unique eco system holds rich flora and fauna and is a major source of water along with preventing soil erosion. It has resulted in enhancing ground water level in the area thereby enhancing the biodiversity of the campus. It also offers live field experience to students of environment sciences, as they regularly monitor the biodiversity, ecosystem process and eco-hydrology of this live laboratory.

Efforts for Carbon Neutrality:

- The University has initiated steps to implement e-governance in full scale to promote carbon neutrality in its campuses. Email communication along with web posting is promoted.
- The university has made the entire admission process paperless by introducing the facility of online submission of application forms.
- Use of rexine and other polymeric materials for advertisements are restricted in the campus.
- Continuous planting of indigenous tree saplings as part of greening the campus initiative is used to promote carbon neutrality.

Plantation

- Continuous planting of indigenous tree saplings as part of greening the campus initiative was undertaken by the various schools with the effective participation of students, staff, NSS volunteers, NCC cadets, Estates department and the public.



Hazardous Waste Management

- An efficient solid waste management system in the form of vermin-composting with the funding of KSCSTE and co-operation of local bodies was undertaken by School of Bio Sciences.
- The School of Environmental Sciences has installed a biogas plant of 0.75m³ capacity in its campus by using the fund raised by the school through one of its projects funded by Department of Environment and Climate Change (DoECC), Government of Kerala. This biogas plant is being used to manage the food waste generated in the premises.
- The wash from chemical waste is contained and stored in the sewage tanks which have concrete walls of 20cm thickness. Research laboratories adopt green routes for chemical reactions by using less toxic starting materials, solvents etc. thus reducing the stages of the synthetic routes and minimizing the waste as far as practically possible. By changing the methodologies of organic synthesis, health and safety is assured in the laboratories. To reduce the environmental impact of laboratory wastes, reuse or redistribution of the unwanted surplus materials and treatment and recycling are adopted. The university has also taken measures to avail the services of a consultant to supervise chemical waste disposal and initiated steps to dispose hazardous chemical waste in a permanent disposal facility with the help of licensed agencies.

e-waste Management

- The University has entered into a tie-up with Clean Kerala Company for the removal of e-waste from the campus through buy-back schemes. Effective implementation and monitoring of the programme has been done through National Service Scheme.

7.2. Innovations

7.2.1 Give Details of Innovations Introduced During the Last Four Years Which have Created a Positive Impact on the Functioning of the University.

Large numbers of innovative programs were introduced in frontier areas of knowledge, teaching, research, extension and consultancy. New academic programs were introduced in several schools and centres. New centres were started in frontier areas of science, technology humanities, social sciences and languages.

Academic Initiatives and Innovations

- As a new innovative initiative of the university, School of Tourism Studies, a regular statutory department was established in 2010 for skill development in the areas of tourism, hospitality and aviation. It also conducts fundamental and applied interdisciplinary research in key areas

like tourism resource mapping, destination development, visitor management systems and development of innovative travel related solutions.

- Under School of Behavioural Sciences, Inter University centre for Disability Studies was started in the year 2010. Institute of Research in Learning Disabilities was started in the year 2014. The Department of Indian Sign Language also was started in the year 2015 to train young professionals who can interpret and communicate in Indian Sign Language.
- Inter University centre for Social Science Research and Extension (IUSSRE) was established in 2010. This centre has been conceived as an interdisciplinary centre of excellence for Social Science research and extension. The centre comprises of the major interdisciplinary areas of emerging social importance in the context of globalization.
- Centre for High Performance Computing was established in 2010. This centre provides facility for efficient scientific computing for interdisciplinary research. The centre focuses on open access programs for the use of all.
- Inter University Centre for Biomedical Research and Super Speciality Hospital (IUCBR & SSH) was established in 2010. This Centre envisions to transform scientific breakthroughs into accurate diagnostic measures and into life-saving treatments for patients. The Centre has plans to establish a super-specialty hospital in the second phase with facilities to deal with emerging threats of viral, bacterial and other infectious diseases, immunity crisis, geriatric issues, developmental disabilities, infection and inflammation, the ageing body and brain, mitochondria & neurodegenerative diseases, brain injury and repair, mental health, metabolism, endocrinology and general health. Population health science; transplantation and regenerative medicine; genomics, children and women's health are the long-term priorities of the institute.
- Inter University Instrumentation Centre (IUIIC) was established in 2011. This centre has been set up to serve the research communities in all the universities in Kerala by initiating advanced level research in various interdisciplinary areas which require state-of-the-art equipment facilities. This centre has acquired state of the art facilities from the Department of Science and Technology for characterization of materials.
- University Centre for International Co-operation (UCIC) was established in 2011. The main objective of this centre has been to explore the ways and means that shall facilitate international student's admission, collaborative teaching, research and outreach programmes with reputed institutions from abroad etc.



- Institute of Contemporary Chinese Studies (ICCS) was established in 2011.
- KN Raj Study Centre for Planning and Centre-State Financial Relations was established in 2011 and has started MA (Economics) programme.
- Advanced Molecular Materials Research Centre (AMMRC) was established in 2012 to perform advanced scientific research for the development of molecular devices.
- National institute of Plant Science Technology (NIPST) was established in 2012 to make advanced studies and research in the areas of plant science and plant based eco technologies.
- Inter University centre for Studies in Science of Music (IUCSSM) was established in 2012. This centre has been envisaged as an advanced research centre in the field of music and science, including specialists in the area of music cognition and evolution.
- Centre for Yoga and Naturopathy (CYN) was established in 2015 and is conceived as a centre for alternative medicinal systems and holistic health.
- Inter University Centre for Organic Farming and Sustainable Agriculture (IUCOFSA) was established in 2016. This centre has been established to encourage and promote development of organic farming and sustainable agriculture in the country.
- Business Innovation and Incubation Centre (BIIC) was established in 2016. The main aim of BIIC is to kindle the entrepreneurial spirit of youth and provide customized support to early stage business ideas with high growth potential amply supported by a patent cell. It also aims to become a hub for innovation activities facilitating and guiding development of ideas into innovative applications that can benefit society directly.
- Introduced M Phil in Disability Studies in Inter University Centre for Disability Studies in the year 2011-12 to promote interdisciplinary research in the area of disability rehabilitation.
- Introduced M.Tech in Computer Science with specialization in Communication and Network Technology in 2012 and MPhil in Computer Science in 2015.
- As a specialisation in the area of Chemical Sciences, a full-fledged M.Tech programme in the domain of Polymer Science and Technology was introduced in the School of Chemical Sciences in the year 2012-13. This programme was designed to create trained manpower in the area of Polymer Science and Technology.
- Integrated master-PhD programme was started in School of Chemical Sciences and International and Interuniversity Centre for Nanoscience and Nanotechnology.

- Setting up of Music Research Centre at Inter University Centre for Studies in Science of Music (IUCSSM) at a cost of Rs. 1.15 crores.
- School of International Relations and Politics started a summer school in Public Policy and Governance. The School also held a Young Scholars Conference in 2014 inviting young researchers from universities outside Kerala.
- The University has initiated an ambitious pioneering project to construct a Science Park in the campus. The Science Park will house chemistry, biology, nanoscience, organic farming, computer science and other science and general purpose laboratories. These facilities will provide the perfect environment for start-up science and technology businesses to conduct commercially oriented R&D and bring new products and services to the market. It is to satisfy the demand for smaller start-up companies for a business environment which includes meeting and conference rooms, desk facilities etc.
- The university has decided to introduce transmission of question papers online to its affiliated colleges to ensure fast and prompt completion of examinations.

Other Innovative Measures

- Through Erudite Professorship, MG University could bring a large number of outstanding professors (60 numbers) from different parts of the world to interact with faculty and students and the public. These include 7 Nobel laureates and other leading academics in science, engineering, technology and social sciences from all the continents. These visits helped the students and faculty to interact with outstanding professors. The university could also make good academic networking with all these faculties leading to many joint publications.
- The University has introduced multidisciplinary e journal- www.mguejournal.wordpress.com.
- Collaboration for academic, research and extension programmes with a number of national agencies and institutions including the UGC (DRS, CAS, DSA), DST (FIST), ICSSR, ISRO, KSCSTE, CSIR, DAAD, DIT, DRNS, DRDO, ICMR, BARC, MOEF, ICCR, ICHR, IED, IIFT, Institute of Chinese Studies and the Sahitya Academy.
- Academic collaboration with research institutions of international reputation such as the Max Planck Institute for Light, Leibnitz Institute for Polymer Research Dresden of Germany, University of Nantes, University of Strasbourg, University of Nancy, University of Paris Twelve, University of South Brittany of France, California Institute of Technology, USA, University of Toronto, Canada, Catholic University, Belgium,



Heidelberg University, Germany and the Institute of Political Studies, Rennes, France, Brown University, University of Wisconsin-Parkside, Duke University, Jinan National University, China, Plymouth State University of USA, Ben-Gurion University, Israel and Technical University Denmark.

- An extension programme on 'Rain Water for Humanity' was started in collaboration with Brown University (USA) through which about 25 rainwater harvesting structures have been successfully installed which are managed through community participation. Based on the success of this programme, the school of Environmental Sciences has received Indo- US collaborative funding project of UGC 'Obama -Singh 21st century Knowledge Initiative' for further research and for establishing more cost effective rainwater harvesting structures and on sustainable sanitation suitable to this region.
- Through a new collaborative project on sustainable sanitation, the school of Environmental Sciences has acquired a 'Self-Contained, PV-Powered Domestic Toilet and Wastewater Treatment System' from California Institute of Technology, USA. This system purifies the water by removing the bacteria and other organic pollutants and the recycled water could be used for further flushing.
- The School has recently installed a weather station which can measure all basic ambient atmospheric parameters continuously. The system can store all these data for future work. This portable system can be taken to the field for in-situ measurements which can substantiate the research work. The system is used for teaching wind patterns, temperature, humidity and rainfall variations in the local region. The wind data generated by the system is helpful in generating windrose diagrams etc. The system is also helpful in understanding the basic and latest measuring methods for climatic parameters.
- Advanced centre of Environmental Studies and Sustainable Development (an Inter University Centre) initiated inter-disciplinary research in areas like climate change, green technology, pollution studies, human ecology and tribal studies, bio diversity and sustainable development. The Centre is a partner of 'Obama-Singh 21st Century Knowledge Initiative' collaborating with Duke University and Plymouth State University, USA for sustainable development programmes.
- Library has introduced anti-plagiarism software to prevent copying of research output and theft of intellectual property.
- In addition to digitization of thesis, e-resources and open source resources have been extended through both campus-wide and remote access to students, research scholars and teachers.



- New linkages have been established via national endeavours in multi-national projects like India TMT (Thirty Meter Telescope) Project (DST) and the Square Kilometre Array India Consortium (DAE) with participation of students and faculty in science development.
- Archaeological studies with the help of an archaeological museum which has a large number of objects belonging to Paleolithic, Mesolithic, Neolithic, Megalithic and Medieval periods in the School of Social Sciences. The artifacts include Potteries: redware, blackware, black and red ware, roulettedware, Chinese and glazed Islamic ware, burial urns, iron implements, beads, coins, inscriptions, granite sculptures etc. Student participation in excavation of archaeological sites is a part of history teaching-learning methodology.
- Consultancy Services were carried out by various schools and centres (1) to improve the production quality (2) to fabricate advanced materials from natural resources (3) to give value addition to the existing products and (4) sharing of lab facilities eg. Water quality testing for the general public.
- Psychometric tests for assessment of aptitudes and mentoring of students in various schools to make them goal oriented.
- Group student projects on topics of social relevance undertaken using a problem based learning approach in various schools has shown outstanding results due to its impact and influence on local community, decisions of policy makers etc.
- Semester plan – A pre-planned academic calendar for all the working days of every semester ensures academic planning and timely execution and is followed in School of Tourism Studies. Lesson plan system for each course optimizes efficiency of learning through effective course management and is another major facet.
- Selection of “Luminary” – The best outgoing student through a six tier selection procedure is followed in School of Tourism Studies.
- Travel Grant to students to undertake projects abroad.
- Fifty Seven international and national conferences were organised by the University for the Dissemination of knowledge in various domains.
- Memorandum of Understanding with 18 international and 6 national institutions and companies for research and development.
- MOOC programme was organised by School of Environmental Sciences and International and Inter University Centre for Nanoscience and Nanotechnology.



- Inter University Centre for Nanoscience and Nanotechnology was proclaimed as an International Centre by the Government of Kerala based on its outstanding performance during 2013-14.
- Brainstorming discussion meetings have been held in the international conferences at the International and Inter University Centre for Nanoscience and Nanotechnology for the submission of joint research projects between India and rest of the world under Horizon 2020 and other bilateral projects between DST/DBT/UGC of India and the rest of the world.
- Student exchange programmes, both inbound and outbound have been undertaken on a regular basis at the master and PhD level at the Inter University Centre for Nanoscience and Nanotechnology. As a result of this, students of the Centre could travel to USA, Canada, Argentina, Brazil, Poland, Belgium, Czech Republic, Slovenia, Slovakia, Italy, Portugal, Spain, Austria, Switzerland, Sweden, Finland, South Africa, Australia, New Zealand, Japan, China, South Korea, Singapore, Malaysia, Hong Kong, Nepal and Russia.
- Annual Meet to honour the PhD holders who obtained the degree during the year. The first such meet was held on 28/05/2016 where medals and certificates were distributed.
- An interface meeting between publishers and faculty and research scholars of the university was organised by the IQAC to promote publishing of research output with reputed international publishers.

Technological Innovations

All the University teaching departments have adequate computing facilities for catering to their academic and administrative requirements. The university network enables access to all the online journals and research articles subscribed by the University Library. Student Web Centre ensures general computing facilities in the campus. Specific computer labs for enhancing computer skills, language skills, soft skills etc. are also part of the computing infrastructure. The major technological innovations are

- Received funds for introducing Smart Class Rooms in eleven teaching departments to offer video conferencing facilities.
- Public Portal facility
- Wi-Fi Campus
- Campus wide OFC Network
- e-Tender for Transparency
- MOOC programmes and Web casting of Lectures

- Online single window admission through Centralized Allotment Process (CAP) which made it paperless. This admission process made the system more transparent and the principles of social justice, inclusiveness and equity could be introduced.
- Digitization in examination management system introduced in Pareeksha Bhavan.
- Official e-mail account made available to all teaching Staff.
- SMS communication for faster delivery of services
- Use of KOHA – library management software in Central Library and in teaching departments.
- E-grants system for processing of grant/Fellowship applications of SC and ST students.

Others

- Biometric punching has been introduced for the staff to ensure transparency and punctuality in attendance system.
- The process of selection of non-teaching staff was handed over to the Kerala Public Service Commission which ensured selection of best candidates through greater transparency.
- A newly built day care centre is being run for the children of university staff.
- Single window system has been introduced for the submission of project proposals by faculty members.
- The money released from the external funded projects has been released to the principal investigators on a fast track basis.
- Submission of audited statement of accounts of projects is done through a fast track process by the university.
- The university has ensured a barrier free environment in the campus through construction of ramps, accessible toilets, preferential parking slots etc.
- The university has earmarked two seats for meritorious sportspersons for each course at under graduate level and one seat for each course at post graduate level.
- The university has instituted Sports grace marks to a maximum of 25% for participation in sports and for their achievements at various levels of competitions.



Ongoing Innovative Plans in Different Stages

- The university has initiated plans at a cost of Rs. 2500 lakhs to have a Wi-Fi enabled e-campus to enable online access to all statutory departments, inter university and inter school centres and affiliated colleges to facilitate online academic programmes through
 1. Procurement of 10 TB server and other computer hardware and software.
 2. Establishment of Wi-Fi facility in the campus
 3. Establishment of e learning and support centre
 4. Establishment of a digital content management system
- Installation of solar power plant system for power generation during day time at a cost of Rs. 3500 lakhs. This initiative will solve the electricity problems and frequent power cuts in the campus and the campus will become more green.
- Establishment of digitising facility in the university library.
- Setting up of Digital Content Creation Lab.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the university.

Best Practice I

1. Title of the Practice: MULTIFACETED APPROACH FOR EXCELLENCE IN RESEARCH AND KNOWLEDGE PRODUCTION

2. Objectives of the Practice

A set of comprehensive measures were taken by Mahatma Gandhi University to achieve outstanding results in the area of research and knowledge production. The objectives are;

- a) To enhance research and knowledge production through upgradation of various academic elements.
- b) To excel in research through constant development of superior infrastructure and resources.
- c) To facilitate collaborative work by finding out the best partners for research collaboration from India and abroad.
- d) To enable faculty exchange and student exchange programmes to empower human resources.
- e) To conduct joint conferences and workshops.

- f) To have joint patents and publications.
- g) To run Massive Open on- line Programmes (MOOC).
- h) To constantly enhance analysis of the data, filing of the patents, sharing of the intellectual property rights and publication of research papers in refereed journals.
- i) To equip students to gain good and meaningful employment opportunities at the global workplace.
- j) To extend the research output to the betterment of the society.

3. The Context

Understanding of the need for several non-conventional areas of knowledge across physical, natural and Social Sciences, the university has chosen to organize its academic departments as interdisciplinary schools where multiple disciplines co-exist and interact with one another. This was followed by establishment of several inter university and inter school centres as institutions of convergence which facilitated cutting-edge research in various interdisciplinary domains. The university offers research programmes in forty disciplines through its own schools as well as through its approved centres.

4. The Practice

The university has massive faculty exchange programme where foreign faculties visit our campus on a regular basis and interact with students and faculty of the university. Our faculty visits other universities in India and abroad to give lectures and to undertake joint research projects which leads to joint publications and patents. Through Erudite Professorship, MGU could bring a large number of outstanding professors (60 numbers) from different part of the globe to interact with faculty, students and the public. These include 7 Nobel laureates and other leading faculties in science, engineering, technology and social sciences faculties from all the continents. These visits helped the students and faculty to interact with outstanding professors. The university could also make good academic networking with all these academics leading to many joint publications.

MGU was the only state university in the country to get Obama-Singh 20th Century Knowledge initiative project. Through this programme high level of academic networking was started with two US universities. This led to the exchange of faculty visits from both the countries, joint publications and conferences.

Student exchange programmes in both directions helped the students to excel in their academics, cross-cultural understanding and academic networking thereby getting equipped to meet the needs of the global workplace. They also become extremely skilled in running many sophisticated instruments. For eg. Student exchange programmes introduced at the International and



Interuniversity Centre for Nanoscience and Nanotechnology (IIUCNN) was a very unique programme where master and PhD students of (IIUCNN) could spend 6 months to one year in various countries like USA, Canada, UK, Brazil, South Africa, China, Singapore, Croatia, Austria, Germany, New Zealand, Japan, Australia etc. MGU could attract large number of students from abroad for the project work and to do a semester in the university for which credits could be transferred.

The frequent joint conferences and workshops organised in collaboration with other national/international institutions are very beneficial to keep abreast of the developments in the field.

Massive Open on-line Programmes (MOOC) proved very useful for the students as they helped them to attend expert online lectures of the faculties in other universities in India and abroad. MOOC on “Global Understanding” between University of North Carolina, USA and MGU was a unique programme introduced for the first time in Kerala at the university level. Another programme was conducted between MGU and Quilu University of Technology, China and Harbin Institute of Technology, China.

Joint research collaboration with other universities and institutions in India and abroad often leads to joint publications and patents. MGU could send one faculty and three students to Antarctica and this enabled high level of experimentation at the polar station.

Many faculty members of the university could present papers at the international conferences by making use of the unassigned UGC grant sanctioned for the purpose and the university has fully utilized UGC grant. Recently the University has approved travel funds for outstanding students too of the university to go abroad.

5. Evidence of Success

The success of these initiatives is phenomenal in terms of the national and international acclaims received. The university has an h-index of 66 based on Web of Science which is the highest value among all the universities in the state of Kerala. CSIR has ranked the university thirteenth at the national level in terms of intellectual productivity and NISTADS has rated it nineteenth at the national level in terms of h-index of the science faculty. DST has ranked the University 8th among the 29 Universities under the PURSE programme. Prof. Sabu Thomas is the most productive researcher in the state of Kerala with an h-index of 78 and citations 26000. His national ranking is 5th in terms of productivity.

Another important evidence of success is the large number of joint publications of MGU faculty with universities and research institutions abroad. The joint international conferences, joint patents and MoUs with leading institutions abroad are ample testimony to the success of the

initiatives. The success of joint Ph.D programmes with institutions in Australia and France is another strong indicator. The excellence in teaching and research at the Inter University Centre for Nanoscience and Nanotechnology has resulted in the elevation of the Centre into an International Centre, thus providing the university the unique status of having the only such international Centre in the State of Kerala. Because of the multifaceted approach in research, MGU could bag large number of national and international projects (DST Nano Mission, DBT, OBAMA-SINGH initiative, and other international projects) leading to infrastructure and manpower development.

6. Problems Encountered and Resources Required

The major constraint in offering the MOOC programme was the disruptions in high speed internet connectivity, lack of excellent video conferencing and time difference between the countries. Official hurdles were there initially for the funding of the outstanding students to go abroad on student exchange for their travel and stay, which were finally resolved. Difficulties in the processing of travel documentation are another hindrance.

Best Practice II

1. Title of the Practice: ENHANCED STUDENT SERVICES THROUGH ICT ENABLED CENTRALISED ADMISSION PROCESS

2. Objectives of the Practice

- To establish student -friendly admission systems for both the affiliated colleges and the university teaching schools.
- To ensure social justice in admissions by strictly maintaining the merit and reservation norms.
- To extend the catchment area beyond the jurisdiction of the university.
- To minimize the vacant seats.
- To put an end to admission related malpractices.
- To develop a Centralized Admission Registry.
- To develop an admission system in which the students and parents can save their time and money.

3. The Context: Contextual or challenging issues in designing and implementing the practice

Though the state government and university had framed specific norms for the admission process, the authority of admissions had been with the individual colleges. Each year during admission, the university had been flooded with complaints about violation of norms. Most of the complaints proved to be genuine. Community reservation pattern was not followed in many colleges.



The details of the candidates from the colleges used to reach the university only for the purpose of examination registration. At that stage even if the university found that there were unauthorized admissions, no remedial measures could be taken to support the student community due to the lack of enough time. In fact there was no system like a Centralized Admission Registry to cross check admissions. When the inflow of complaints increased, the university resolved to emulate the acclaimed Centralized Admission Processes of State Higher secondary Education Board from the year 2010. One of the challenges was a suit filed by private managements who termed the initiative as an encroachment on the right of minority management colleges. However the university could get a favourable verdict from the honourable Supreme Court.

4. The Practice: Uniqueness of the practice in Indian context- and limitations/constraints faced

In this system, a student can register any number of college/teaching School/course options based on his eligibility within a single application. The student will be allotted his/her eligible option strictly based on his/her merit and reservation norms. There are separate systems for admission to affiliated colleges and the University Teaching Schools owing to the difference in the admission criteria. There will be a number of allotments in the case of affiliated colleges whereas the admission to the Teaching Schools is based on a Common Admission Test after which the students are given allotments in an Admission Counseling. After the admission process the university prepares a Centralized Admission Registry by combining the data available in the system with the details of the candidate with regard to management/community quota admissions uploaded from the colleges. This process ensured the principles of social equity, accessibility and inclusiveness.

5. Evidence of Success: Performance against targets and benchmarks, review results-what results indicate?

- The enrolment in individual colleges shot up.
- The number of vacant seats got minimized.
- The enrolment of backward community students increased.
- The enrolment of SC/ST students doubled.

Notes add additional information if any

It was in 2010 that the university launched an e-governance initiative for centralizing the admission process in the affiliated colleges. In the initial year the university depended on LBS Institute for technical support. However, in the succeeding year, the university developed its own software for Centralized Admission Process. Following the resounding success in CAP for affiliated colleges the Common Admission Test for the PG programmes in the



university teaching schools also was moved to the online platform in 2013. The process was renamed CAT-MGU with integration of the Payment Gateway Services of M/S NSDL. Widely acclaimed as student friendly systems, the centralized admission processes of the university have benefitted both the student community and the college authorities. They also succeeded in maintaining social justice by strictly following the merit and communal reservation norms in the admission process.

Other Best Practices

1. Empowerment and Rehabilitation of the Physically and Mentally Challenged through Six Community Extension Activities (School of Behavioural Sciences):

School of Behavioural Sciences which represents the disciplines of Special education, Psychology, Nursing, Medicine, and Clinical Psychology has developed a number of community extension activities and programmes in the form of life skills training for high school students, empowerment of parents of the intellectually and mentally challenged children, training of staff nurses in imparting counseling, Jyothirgamaya - a community extension activity for the development of awareness on disability, Insights- a community extension activity for the development of attitudes related to disability rehabilitation and Naipunya- a community extension activity for the development of skills. It also conducts a child development clinic named 'Pratheeksha' on every second Saturday involving a team of pediatrician, clinical psychologist, counselors, audiologist and a physiotherapist. The activity which is facilitated with the active involvement of Indian Academy of Pediatrics and District Early Intervention Centre is an attempt to promote interdisciplinary participation in disability prevention, detection and management.

The University also took the lead to establish **DREAMS** (Disability Rehabilitation Early Assessment and Management Services), an extension activity with the objective of providing early identification and intervention services to all types of disabilities under one roof. The initiative provided support services to 764 referral child clients, from medical institutions through DREAMS, during the assessment period.

The School of Behavioural Sciences organized a series of extension activities in the community to promote awareness regarding disability and rehabilitation under the programme JOTHIRGAMAYA. The School also organised and conducted medical camps to facilitate early identification of developmental disabilities under the scheme PRATHEEKSHA. The school also organised and conducted a series of training programmes for ASHA workers and parents to enhance skill in rehabilitation of persons with disabilities under the project NAIPUNYA.



2. Production of Laboratory Grade Water Through a Unique Rainwater Harvesting System (School of Environmental Sciences)

The distilled water, double distilled water and ultra-pure water required for environment analyses in laboratories are produced using a unique rainwater harvesting system. The harvested rain water is utilised for producing various analytical grade water as source and coolant. The coolant water is recycled through the rain water harvest structure unlike the conventional distillation units where the coolant water is discharged into the drain. This reduces considerably the wastage of conventional fresh water and increases the efficiency of the laboratory grade water producing system. The biodiversity, ecosystem process and eco-hydrology of Jeevaka Live Laboratory- a pristine 12 hectare protected major water shed in the campus is used to offer field experience to students and they regularly monitor this live laboratory.

3. Legal Literacy Cell (School of Indian Legal Thought)

Legal Literacy Cell, constituted in the year 2011 gives necessary legal advice and information to the public who approaches the Cell. The activities of the Cell are a kind of training to students in handling legal issues of the public.

4. Sports Scholarship and Sports Merit Cash Award (School of Physical Education and Sports Sciences)

The university has instituted Sports Scholarship for 150 meritorious Sports persons annually to recognize the achievement of the Sportsman/ women of the university. This acted as a motivating factor and the School has been able to produce 7 Awardees, 10 Olympians, 15 Asian games athletes' and more than 200 internationals since its inception. The university has also instituted Sports Merit cash Award to the winners of All India Inter University championships annually. The Sports Merit Cash Award was instituted by the School to encourage the university teams to perform well at Inter University Competitions. An amount of Rs 10000/-, Rs 7500/- and Rs 5000/- respectively is given to athletes for each gold, silver and bronze medal.

5. Salvaging Excavations of Historical Material: (School of Social Sciences)

The practice of taking students to excavation sites and training them in salvaging artefacts belonging to the megalithic and pre-modern artefacts has contributed immensely in archaeological studies. The School also train students in surface collection of historical materials such as old coins and potteries. The outcome of these excavations in the form of thirty megalithic and pre-modern artefacts is displayed in the archaeological museum of the School.



6. Yoga for Masses-A Public Health Initiative: (Department of Life Long Learning and Extension)

The Department with the support of the Alumni, launched the Project “Yoga for Masses- Public Health Initiative” to impart awareness on basics of yogic practices among the public on voluntary basis. Sample studies have shown significant improvements in the life style disorders of the participants. 480 Yoga professionals who are appropriately skilled to provide training for the public have passed out from the Department during the last four years. More than 250 Yoga training centres have been launched by the MGU Alumni besides reaching the message of Yoga to more than 25,000 people through mass contact programme.

Similarly, the Department launched its Certificate program in Counselling too. 400 students covering the wider social circle right from farmers to doctors, engineers, police officials, teachers, nurses, advocates and social workers have cleared the program in the last four years. The Department offers Counsellor on Call services to the students and educational institutions as and when required. More than 5000 students have been counseled through the system so far.

100 Organic Farming Clubs have been set up in Colleges under the university, and the cumulatively all the Clubs have produced vegetables worth Rs 50 lakhs.

7. Use of Online Interactive Teaching Learning Platforms like Edmodo, Galileo etc (School of Tourism Studies)

Edmodo - a digital online teaching learning interactive platform is used to enrich the teaching learning quality, crossing the barriers of time and place through its superior features like online discussions, online tests, pooling resources, online submission of assignments etc. Using Edmodo, students and teachers can reach out to one another and connect by sharing ideas, problems, and helpful tips resulting in online participatory learning. A teacher can assign and grade work on Edmodo and students can avail support of this pooling of learning resources.

To meet the global travel industry’s requirements, School of Tourism Studies has also incorporated the use of travel simulation software like Galileo, Virtual Travel Agency, Virtual Hotel, Virtual Food and Beverage which familiarizes students with online reservation systems used worldwide for comprehensive transport and accommodation management.

8. Internship-Placement System through Effective industry linkage (School of Tourism Studies)

With active participation of the industry, the School has developed an effective system for implementation of the internship scheme. The internship, which is titled as Tourism Services Internship (TSI) consists of three



components: Pre-internship workshops, an eight week supervised working period (internship), and submission of a post-internship report called Tourism Services Internship Report. Constant evaluation and monitoring of the process is done using Daily Progress Report (DPR) and Internship Evaluation Feedback (IEF). This systematic internship system was found very effective for linking theoretical knowledge and industry practices, which reflected in the form of successful placements.

9. Demonstration –cum – Interactive Method for Teaching Sanitation and Waste Management with Operating Models (School of Environmental Sciences)

The School of Environmental Sciences made the learning process interesting with a demonstration –cum – interactive method. Sanitation and waste management are given prime importance (Swachh Bharat) with operating models in the campus. The solid waste management techniques are explained / taught to the student community with the working models of biogas plants, composting and vermin-composting units in the laboratory. The students get trained how to operate these gadgets for efficient management of solid wastes.

10. The Summer School:

The school of International Relations and Politics organized a summer school on public policy and governance in association with Institute for Sustainable Development Governance (ISDG) during 30 April – 3 May 2016. It was attended by about 30 scholars students and the stakeholders of public policy and classes were engaged by experts in the relevant field of studies.

11. Young Scholars Conference:

The KPS Menon Chair of the school of International Relations and Politics organized a Young Scholars conference in association with Kerala State Higher Education Council on 27-28 March 2014. It was attended by a large number of scholars from all over Kerala. Ambassador K.P. Fabian led the deliberations of the conference.

A decorative scroll graphic with a black outline and grey shading on the rolled-up ends. The text "ACTION TAKEN REPORT" is centered within the scroll.

ACTION TAKEN REPORT

ACTION TAKEN REPORT AND QUALITY INITIATIVES UNDERTAKEN ON THE PREVIOUS PEER COMMITTEE RECOMMENDATIONS

Mahatma Gandhi University has taken all recommendations of the Previous Peer Committee with due respect and consideration. The University places on record its deep appreciation of these recommendations which are instrumental in correcting the shortfalls and inadequacies. The following are the observations and recommendations, followed by the steps taken by the University.

Criterion I-CURRICULAR ASPECTS

2.1.2 Academic Flexibility:

Observation 1: Credit choice across disciplines and transfer of credits

CSS provides provision for open courses and every regular postgraduate student is required to choose an open course of 4 credits in the third semester. It offers a student the opportunity to attend courses offered by another school /faculty.

Credit accumulation and transfer facility: Inter institutional credit transfer is being offered by university for students undertaking projects outside the University. Open courses are offered to students in the third semester. The credit for the open course is transferable.

2.1.3 Feedback on Curriculum

Observation 2: Formal and systematic mechanisms to direct feedback from the alumni and parents for curricular improvement.

The University uses the feedback obtained from students and alumni in the prescribed format. The feedbacks received from different groups of students and alumni are compiled by the Head of the School/Centre concerned and it is discussed in the Faculty Council for appropriate action in curricular improvement. The feedback helps respective teachers to know and improve the syllabus, teaching methods and evaluation.

2.1.4 Curriculum Update

Observation 3: Fieldtrip/visit/work is not visible in some Schools/Departments

University strongly encourages field trips/familiarization trips/visits to labs, industries etc as part of academic activities in all Schools/Centers.



CRITERION 2 TEACHING, LEARNING & EVALUATION:

2.2.2 Catering to diverse Needs

Observation 4: There is a below par representation of SC and ST students.

With a view to streamlining the admission procedure in affiliated colleges and university departments, the centralised admission procedure (CAP) was conceptualized by the Mahatma Gandhi University which was implemented from the academic year 2010 onwards and is successfully running the process since then. The biggest advantage of CAP is that the seats earmarked for SC/ST/Physically Challenged candidates are exclusively allotted to them. Unfilled seats in these categories, if any, can also be allotted to other eligible categories as per the existing rules, thereby ensuring social justice which has shown positive results.

In the admission process the University offers mandatory reservation of seats to special categories as shown below:

| Category | Reserved seats (%) |
|------------------|---------------------------|
| Scheduled Castes | 15% |
| Scheduled Tribes | 7.5% |

For the unfilled seats under the SC/ST category, re-notification is done upto a maximum of three times to ensure filling up of vacant seats.

Observation 5: Proactive stance towards the physically challenged students.

The University has issued specific orders (U.O No. 4308/P&D - 1/3/2016/Admn. dated 01/08/2016) formulating a comprehensive policy for addressing disability issues. The main components of the order are as follows:

- To engage the service of a barrier free design expert and architect to audit the disabled-friendliness of all physical segments of the University.
- To ensure disabled-friendly features like ramp (of a gradient not greater than 18-20 degrees), lifts (wide enough for wheel chair, and with Braille control switch panel and audition), special assistive fixtures and fitting (like handrails and grab bars alongside the side walk of steps and staircases), and disabled - friendly washrooms in all future construction projects.

- To allow a grace period of three months for MPhil and six months for PhD students who are physically challenged in the submission of dissertations.
- To ensure at least one terminal in the computer workstation (of all departments, centres) with special assistive technologies, preferably open source, for physically challenged students.
- To ensure the websites of Mahatma Gandhi University and its statutory teaching departments and the affiliating colleges incorporate features friendly to the visually challenged (including colour contrast, variable font size and audition).
- To create a special fund to handle all income and expenditure relating to addressing disability issues of Mahatma Gandhi University including constituent colleges. Besides central and state funding and UGC special assistance, funds are also received from MP/MLA development plan assistance for constituencies, and rules permitting, from the private sector companies (who may fulfill it as part of Corporate Social Responsibility).
- 3% reservation in admission is provided to this category of students to increase their access to higher education.
- Visually-impaired students are allowed scribes and extra time for writing the examinations.
- The unfilled seats under the Persons with Disability (PD) category is converted to seats for children with special needs.
- The University Library has Braille Centre with DAISY Software to aid the learning requirements of visually challenged students.
- Ramps and wheel chairs are provided in the buildings in the campus.
- The University has also initiated steps to procure an eco-friendly battery operated vehicle with wheel chair access along with preferential parking slots to ensure barrier free transportation in the campus. Physiotherapy unit
- Audiology and speech therapy unit
- Remedial coaching for students with learning disabilities
- Psychological counseling services
- ABILITY – A funded project initiated by the School of Social Sciences to make buildings barrier free for persons with varied disabilities.



- To highlight the aspect of disabled - friendliness in all notifications for admission and appointment released by the University statement "MGU is proactive to the needs of the physically challenged" is inserted.
- The University has conducted a comprehensive Access Audit to evaluate the state of accessibility in the campus.
- The University has availed Rs. 1 crore under the RUSA Scheme for the construction of ramps and disabled friendly toilets in all buildings of the University. The classes for differently-abled students are arranged on the ground floor to the extent possible. Electronic Lab for Visually Challenged has been set up in the library during October 2015 with an objective to provide reading facilities to blind and low vision library users.

2.2.3 Teaching-Learning Process

Observation 6: Methodological rigour in interdisciplinary teaching-learning process has not been spelt out.

Interdisciplinary courses that cut across disciplines are identified and curriculum is designed with teaching-learning methods by the combined effort of faculty from various disciplines. The university's MPhil/PhD programmes currently in place reflect the changing matrix of the methodological rigour.

Observation 7.Only few schools/departments use audio-visual facilities for teaching –learning.

The university has established smart classrooms facility in all the Schools/ Centers for teaching and learning.

Observation 8. There is a lack of critical mass of teachers to meet the needs of the ambitious academic expansion plans of the university

The University has well-qualified and distinguished pool of faculty members in different disciplines. There is a disparity between the number of teaching posts sanctioned a filled for which university has taken remedial measures. The University addresses manpower issues by availing the services of Emeritus/Visiting Professors, Adjunct Faculties, Guest Lecturers and Contract Lecturers. At present twelve Emeritus/Visiting Professors are serving the University. Additionally the university invites leading academics including Nobel Laureates from India and abroad as Erudite Professors and Chair Professors. The University is also in the process of filling all the existing vacancies in a time-bound manner.

2.2.5 Evaluation Process and Reforms

Observation 9. Institutional checks for internal evaluation is to be strengthened

The University ensures transparency and accountability in evaluation of students in various programmes through various strategies applicable to both internal and external components. Internal evaluation is continuous and teachers provide adequate and timely feedback to students. Their marks/ grades are intimated and sufficient remedial measures are suggested for improvement. The University has adopted progressive evaluation strategies at the University School level. It has been conducting courses with academic flexibility on credit based system. The feedback from the students and stakeholders are duly considered for strengthening the continuous internal evaluation. Transparency and accountability are hallmarks in internal evaluation. The effectiveness of the process is monitored periodically.

Observation 10: The mechanism to monitor the quality of doctoral research is inadequate

The doctoral committee of the Schools and Centers carefully monitors the quality of the doctoral research with the adoption of the 2010 UGC Regulations. The students have to undertake course work on three subjects including a topic on research methodology. PhD students have to make presentation of their research work every 6 months before the external expert. External expert makes suggestions and recommendations for the high quality of the work. Before the submission of the PhD thesis, they have to make a pre-synopsis viva by inviting an external expert. Based on the suggestions and recommendations of the expert, the PhD student has to make the required changes in the PhD thesis before the final submission. It is mandatory that the doctoral student has to publish at least one paper in a refereed journal prescribed by the UGC.

Observation 11: The question papers are not challenging enough

Effort are now being taken up to improve the quality of questions giving due importance to critical areas that are helpful to evaluate the knowledge and understanding of the students at various levels.

2.4.2 Maintenance of Infrastructure

Observation 12: Exterior of some buildings and landscape needs to be spruced up

The University received a fund of Rs. 20 crores from Rashtriya Uchathar Shiksha Abhiyan (RUSA) infrastructure fund in 2016 for infrastructure development and renovation which has been utilized effectively. The exterior and landscape of many building have been renovated with RUSA funding.



2.4.4 ICT as Learning Resources:

Observation 13. Bandwidth does not seem to be adequate considering the number of users.

Free Wi-Fi is available in the Campus and Hostels. The University has finished installing high speed wireless networking in the campus. These facilities are meant for the upcoming e-governance programme being planned in the University. The university avails the National Knowledge Network connectivity for accessing the digital scholarly resources provided by the UGC Inflibnet Centre. Services provided by the National Knowledge Network are high speed internet and the same connection is being used for e-governance and Wi-Fi connectivity in the university. National Knowledge Network is also provided in other centres of the university.

2.4.5 Other Facilities

Observation 14. Two boys' hostels and one girls' hostel are available. But more space is required in both hostels.

As per the recommendation, the University has constructed two hostels for men and three hostels for women and the details are given below:

| Name of Hostel | Capacity | Established During the Assessment Period |
|----------------------------|-----------------|---|
| Pallana Men's Hostel | 117 | - |
| Pallana Annex Men's Hostel | 81 | 2014-15 |
| Syrandhri Women's Hostel | 84 | - |
| Nila Women's Hostel | 71 | 2012-13 |
| Kabani Women's Hostel | 71 | 2013-14 |

All the University hostels are well-furnished and are fully occupied.

Observation 15: Transport facilities for students, especially to satellite campuses are inadequate

The main campus of the university has 6 buses for the benefit of the student community. Most of the students who commute from home and city take the help of these buses. The satellite campuses of the university have 9 buses, 7 at the Campuses School of Medical Education, 1 for the Pullarikunnu campus and 2 buses for the law campus.



Observation 16: Buildings are not friendly to the physically challenged

The University has availed Rs. 1 crore under the RUSA Scheme for the construction of ramps and disabled friendly toilets in all buildings of the University which has been completely utilized. The classes for differently-abled students are arranged on the ground floor to the extent possible. Lift facilities are already installed in the examination wing of the university. Eventually the facilities will be installed in all our buildings for the physically challenged. Biometric attendance system has been properly installed in all the buildings for the benefit of the physically challenged.

2.5.1 Student Progression

Observation 17: There is no University level Placement Cell.

The University has established a Placement cell to improve the employability of the students and also to provide an opportunity for placements. The main objective of the Placement Cell is to work towards reducing the skill gap in students, thus enabling them for immediate placements after their respective courses. The major objectives of this Placement and Training Cell are:

- Guiding students for placement in credible organizations.
- Conducting seminars, group discussions, and mock interviews as a part of career guidance and personality development.
- Coordinating the efforts of the students of the various colleges and departments in arranging domain specific training for them.
- Acting as an information centre for students in job opportunities and competitive examinations.

The major tasks undertaken by this Cell include:

1. Training to students (EMPLOYMENT READINESS FOUNDATION PROGRAMME)
2. Organizing recruitment drive in the campus.

2.5.3 Student Activities

Observation 18: Good outdoor sports and games facilities are available: but there is lack of indoor sports facilities.

Facilities are provided for indoor sports like chess, table tennis, weight lifting, gymnasium, yoga, etc.

2.6.1 Institutional Vision and Leadership

Observation 18: The ratio of nonteaching to teaching is high

Of course, the high ratio of non-teaching to teachings is due to the fact that Mahatma Gandhi University has large number of affiliated colleges and self-financing constituent colleges. However, University is trying to reduce the



ratio by ICT enabled technologies at the administration, finance and examination wings of the university which include electronic file transfer and paper less administration.

2.6.2 Organizational Arrangements

Observation 19: Monitoring of the academic quality of affiliated colleges needs to be strengthened

To ensure quality and to keep abreast of the times, the University organizes curriculum workshops in different disciplines and subjects to design curriculum not only for the schools but also for the various programmes offered in its affiliated colleges. In fact, the University conducted 360 workshops during the assessment period. The CBCS system has been introduced in the affiliated Arts and Science Colleges at the undergraduate level from 2009 and at the postgraduate level from 2012.

2.6.3 Strategy Development and Deployment

Observation 20: Prospective plans are not clearly visible.

Mahatma Gandhi University has prospective vision document for the next 10 years i.e., vision 2030 which include Convergence Academia Complex, Science Park, State- of- the- art Academic Laboratory Complex and International Academic Convention Centre. The University has ambitions plans to be in the list of best 200 universities in the world ranking (Q and S, Shanghai etc). Additionally, every School and Center of the University has a prospective road map for the vision 2030.

2.6.4 Human Resource Management

Observation 21: A large number of legal cases against the university are pending.

The fact that the University has a large number of affiliated colleges and self-financial institutions under its purview which has led to litigations of various dimensions. The cases were filed concerning the following areas:

- a) Service matters- appointment, promotion, disciplinary action and seniority of teaching and non-teaching staff.
- b) Students' matters - admission, examinations, attendance etc.

The judicial verdicts on all such cases are strictly followed and enforced in a time bound manner ensuring equity and social justice.



2.6.5 Financial Management and Resource Mobilization:

Observation 22: Some of the audit objections have not been taken care of.

The audit objections raised by the Audit wings of the University and the Kerala Government are regularly addressed and corrective steps are being taken.

3.2 Institutional Weaknesses:

Observation 23: Faculty recruitment is inadequate

In the last four years, three permanent faculty members were appointed. If the University has constraints in filling up the post (due to pending cases, lack of qualified candidates, reservation issues etc.) then qualified and experienced persons are appointed as guest faculty. 56 guest faculty members have been appointed in various schools since 2010. It is to be noted that Mahatma Gandhi University is the only university in the state of Kerala which has been awarded the DBT BUILDER programme by Department of Biotechnology, Government of India, in which 3 Assistant Professors have been appointed. The University is also in the process of filling all the existing vacancies in a time-bound manner.

Observations 24: Faculty strength is minimal

Recently the syndicate of the university decided to fill all the vacant 41 positions of the faculty in the schools. School and Centers of the University have asked for new positions from the Government of Kerala

Observation 25: Facilities for sports and co-curricular activities are not enough

The university has taken innovative measures for supporting students to participate in sports and other extra-curricular activities. University has the following facilities for sports

- Playground: Floodlit roofed basketball court, 200 mts track, Volleyball court, Handball court, Football/Cricket Ground
- Gymnasium: Fitness Centre, Yoga/Wrestling Hall
- 100 bedded sports hostel for Boys and Girls

The School of Physical Education and Sports Science provides additional scholarships to the meritorious students, viz: Annual Sports Scholarship of Rs 3, 50, 000/- is distributed annually to the top150 sportspersons and Merit Award of Rs 7, 00,000/- is distributed annually as Merit Award for the Medal Winners in AIU competitions at the rate of Rs. 10, 000 for Gold, Rs. 7,500 for Silver and Rs. 5,000/- for Bronze.



Observation 26:

Some teaching staff need to be motivated and re-oriented especially towards the research

The faculty members of schools and centres were motivated by conducting workshops, training programmes, refresher programmes, etc. They are motivated to apply for minor and major research projects funded by various funding agencies.

Observation 27:

There aren't many students from other states and countries.

Our University Centre for International Co-operation(UCIC) is acting as a coordinating centre for admission and academic related activities of international students in various schools/ departments/ centers for which it interacts with different departments. The students from other countries are now joining various schools and centers for their PG and PhD programs, and they are from France, China, Vietnam, Turkey, Tanzania, Uganda, Poland, Kazakhstan, Japan, Fiji, etc. The students from Karnataka, Tamil Nadu, Andhra Pradesh and Utter Pradesh also joined for the academic programs at MG University

Observation 28:

There aren't many staff members from other states.

For faculty recruitment, University advertise widely in the national level to attract the best talent across the country.

Observation 29:

The number of programmes available in Social Sciences is to be strengthened.

New programmes have been introduced at the master's level in the School of International Relations & Politics (like Public Policy and Governance) and K N Raj Centre for Planning & Center-State Relations (Economics).

Observation 30:

Hostel facilities are limited.

As per the recommendation, the University has constructed one hostel for men and two hostels for women during the assessment period as shown below:



| Name of Hostel | Capacity | Hostels established during the assessment period |
|----------------------------|----------|--|
| Pallana Men's Hostel | 117 | - |
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| Nila Women's Hostel | 71 | 2012-13 |
| Kabani Women's Hostel | 71 | 2013-14 |

Observation 31

Residential facilities for teaching and non-teaching staff inadequate

University has built modern residential facility for faculty and non-teaching staff members. These include 64 staff quarters, 12 faculty homes and 6 quarters for the statutory officers.

3.3 Institutional Opportunities:

Observation: 32 There is great opportunity and need to turn to ICT-enabled resources for teaching and learning.

As part of introducing smart class room facility, the following items were supplied to various Departments:

| Sl. No. | Name of the Item | Number Supplied |
|---------|-------------------|-----------------|
| 1 | DLP/LCD Projector | 68 |
| 2 | Laptop | 68 |
| 3 | Visual Presenter | 17 |
| 4 | Interactive Board | 68 |
| 5 | Photocopier | 26 |
| 6 | PA System | 35 |
| 7 | Scanner | 10 |



| | | |
|----|--|----|
| 8 | Printer | 20 |
| 9 | 5 KVA UPS | 6 |
| 10 | High Speed Scanner | 1 |
| 11 | Desktop Computer | 95 |
| 12 | Desk top Computer with special software for blind teachers | 1 |
| 13 | Lecture Stand | 10 |
| 14 | Wireless Mouse | 68 |
| 15 | Video Camera | 10 |

- For training teachers/faculty, one smart classroom is arranged at the Conference Hall/Syndicate Room in the Administration Block.
- Sufficient training is given to faculty for using smart class room facility.
- Smart class rooms have been introduced as a part of career guidance programme.
- All teachers are provided with personal computers with unlimited internet connectivity
- Schools/Centres are equipped with smart class rooms.
- Modern multimedia teaching aids like LCD projectors, smart boards etc. are employed for teaching.
- Virtual programmes, teaching learning software and video conferencing facilities are also available.
- The university encourages blended learning by using online teaching learning platforms and e-learning resources.
- Orientation programmes and hands-on training for familiarizing faculty members with the use of various software for teaching - learning are conducted regularly.
- MG university has initiated MOOC programme with other universities.

Observation 33: There is a need to tap resources from the alumni and government agencies

All Schools have their own alumni association. They have contributed to the development of the Schools and continue to be part of the academic stream. Contributions of Alumni Associations are varied viz: academic support, updating syllabi, enabling to keep abreast of the latest technologies, student mentoring, general body meetings, distribution of prizes to students for outstanding contribution in the departments, family get-togethers, honoring of teachers, technical seminars, special talks, cultural meets, placement support, internship support and philanthropy.

All the schools and centers tap funding from all government agencies such as UGC, DST, DBT, ISRO, CSIR, DAAD, KSCSTE ICMR, BRNS, MeitY, MoES, ICCR, ICHR, ICSSR, IED, IIIT, Institute of Chinese Studies, Jinan National University, China, and the Sahitya Academy.

Observation 34: There is scope for increased private participation

Some of the schools and centres of Mahatma Gandhi University receive funding from private companies from India and abroad for their research activities. These include MRF Tyres Ltd, Apollo Tyres, General Cables USA, Surface Treat, Czech Republic, Plant lipids, India.

3.4 Institutional Challenges:

Observation 35: University needs focused planning based on its founding vision and missions

Mahatma Gandhi University is in the forefront of planning, visualizing and implementing programmes for knowledge creation and dissemination imbuing the philosophy of sustainable growth. It has taken a number of pioneering initiatives to start teaching and research in new and interdisciplinary areas of knowledge by starting new International, Inter-University and Inter-School Centres.

Observation 36: For optimum utilization of human and physical resources, more students can be enrolled in each school/ Department.

In order to optimum utilization human and physical resource of the schools new programs have been stated. These include MSc-PhD integrated programmes and M.Tech programs in some schools. Additionally international interuniversity and inter schools have been stated for teaching and research on emerging areas for science and technology.



Observation 37: There is an urgent need to enroll more physically challenged students.

University has taken several proactive steps to attract more physically challenged students. These include construction ramps, introduction of wheel chairs, lifts, etc. University also issued order to buy battery operated vehicle for differently abled. There is also a separate bus service for physically challenged students.

Observation 38: There need to be a better interface between the university and the society through extension and outreach programmes.

University frequently organizes several outreach programmes besides extension cum awareness programmes to create a better interface between university and society at large. Prominent among them are shown below:

The University launched the Project “Yoga for Masses- Public Health Initiative” benefitting 480 student trainees who are appropriately skilled to provide training for the public. More than 250 Yoga training centres have been launched by the MGU alumni besides reaching the message of Yoga to more than 25,000 people through mass contact programme.

The Department of Life Long Learning and Extension is the leading department entrusted with extensive extension activities. The department is regularly conducting home stay camps in the nearby villages. Similarly, the department has also launched a certificate programme in Counselling too. 400 students covering the wider social circle right from farmers to doctors, engineers, police officials, teachers, nurses, advocates and social workers have cleared the programme in the last four years. The department offers Counsellor on Call services to the students and educational institutions as and when required. More than 5000 students have been counselled through the system so far. 100 Organic Farming Clubs have been set up in Colleges under the university.

The other major extension and outreach programmes undertaken are given below:

1. Helping the villagers to set up rain water harvesting structures.
2. Learning Disability Early Detection Camps
3. Counselling sessions for parents and students with Learning Disability
4. Social Rehabilitation of differently-abled
5. Environment enrichment Programmes
6. River protection activities in Periyar, Meenachil and Pampa rivers
7. Preventive Medical Camps
8. Tree Planting

Section IV: Recommendations for Quality Enhancement of the Institution

Observation 39: There is a strong need to introduce Mathematics, Economics, Philosophy and foreign language. Especially French and German.

MA course in Economics has been started in KN Raj Centre for Planning and Center-State Relations. The steps have been taken to start forging language such as French and German in School of Tourism Studies. University has taken steps to start department of mathematics at the main campus. Philosophical components have been added and strengthened in the curriculum of the PG, MPhil/PhD programmes of the School of Social Sciences, School of International Relations and Politics, School of Letters and the School of Gandhian Thought and Development Studies.

Observation 40: There is an urgent need to augment transport facilities

The main campus of the university has 6 buses for the benefit of the student community. Most of the students who commute from home and city take the help of these buses. The satellite campuses of the university have 9 buses, 7 at the Campuses of School of Medical Education, 1 for the Pullarikunnu campus and 2 buses for the law campus.

Observation 41: There is a strong need to strengthen infrastructure facilities for Sports and Games especially for athletics, basketball and swimming.

University has the following facilities for sports

- Playground: Floodlit roofed basketball court, 200 mts track, Volleyball court, Handball court, Football/Cricket Ground
- Gymnasium: Fitness Centre, Yoga/Wrestling Hall

100 bedded sports hostel for Boys and Girls

Observation 42: There is strong need for staff quarters for both teaching and non-teaching

University has built modern residential facility for faculty and non-teaching staff members. These include 64 staff quarters, 12 faculty homes and 6 quarters for the statutory officers.

Observation 43: The facilities in hostels need to be augmented.

The hostels are being renovated using RUSA funding. University has sanctioned additional funding to build a state-of-the-art kitchen and mess hall for men and women hostels.



Observation 44: The health center needs to be strengthened with better resources, both human and medical.

There is a six bedded health centre in the University with modern diagnostic facilities. There are two medical officers, one of whom is a lady doctor. There are two nurses in health centre. The centre dispenses basic medicines and one dressing room for basic injuries. There is a gymnasium for women members of the staff and girls students and a lady instructor to provide necessary guidance. Under its auspicious health cards were given to all employees as a welfare scheme of the university.

Observation 45: There is a need to apply for more Centres / Chairs supported/ promoted by UGC and other agencies.

The university has started one International and Inter University Centre, seven Inter University Centres, nine Inter School Centres and one Business Incubation and Innovation Centre. Mahatma Gandhi University has 19 chairs. These chairs are conferred to leading academics, diplomats, and scholars and intellectuals of international repute.

Observation 46: 5 % marks allotted for attendance may be scrapped for it is not an academic entity.

5 % marks allotted for attendance has been scrapped.

Observation 47: The Journals need to be acquire ISSNs

University has following four journals with ISSNs numbers.

- *Indian Journal of Politics and International Relations* (ISSN; 0973-5011) and the *South Asian Journal of Diplomacy* (ISSN: 2229-3361)
- *Mahatma Gandhi University International Journal on Computing and Communication* (MGU IJCC) , December 2012 . ISSN: 2318-8850.
- *Journal of Political Economy and Fiscal Federalism (JPE &FF)* ISSN: 2395-6976.
- PEDAGOGICS is a peer reviewed academic journal with ISSN: 2229-7618.

Observation 48: The choice of course needs to be promoted.

The teaching programmes of the University are conducted under the Credit and Semester System (CSS). The programmes are organized in an interdisciplinary mode, marked by their innovative curricula and learner-oriented approaches. The CSS is essentially learner-friendly that advances interactive acquisition of knowledge in a multi-disciplinary matrix. The students are oriented to acquire knowledge with the latest developments in their fields of study. University offers four credit open course to all the masters' students. They can choose any course at any school or centre.



Observation 49: Audit observations should be attended to.

All audit observations are regularly attended

Observation 50: Self-financing course need to be reviewed to strengthen salary and emoluments and working conditions of the faculty members for long term institutional well-being.

University has initiated steps to strengthen the self-financing programmes.

Observation 51: The relationship between affiliated institutions and the University must be reviewed to ensure academic standard at UG and PG levels

The University has a vibrant Directorate of College Development Council (DCDC) which caters to coordinating the research needs of affiliated colleges. Directorate of College Development Council acts as the Coordinator for all affiliated colleges with the UGC (SWRO at Bangalore). There is strong interaction between departments of affiliated college and university schools and centers. Students and faculty members of the affiliated colleges often come to university for joint project and for the conduct advanced experiments using sophisticated instrumentation facilities. Joint projects are often submitted in collaboration with affiliated colleges for funding.

Observation 52: Immediate steps need to be taken to ensure continuous and uninterrupted power supply to the university campus.

All the sophisticated instruments are supported with UPS facility. All the schools and centers are equipped with diesel generators. University has already initiated steps to obtain a hotline for campus.

Observation 53: The school of Tourism can be attached to the School of Management.

The School of Tourism Studies, a regular statutory department of the University, was established during this assessment period (June 2010) after receiving government concurrence considering the regional tourism resources and economic significance. The School which was set up in line with the prominent national and international tourism and hospitality institutions, focuses on skilled manpower requirements for the tourism, hospitality, aviation and allied sectors, besides involving in tourism policy formulation, consultancy services to the public and private sector etc.

The academic programmes of the School were brought under the Faculty of Management Sciences for which orders were issued. The academic activities of the School were also streamlined as per UGC specification (Central Government Gazette notification dated July 5, 2014).

In short, Mahatma Gandhi University has been able to address the issues raised by the previous peer committee in a time-bound manner, and the high



achievements of the University during the last five years reflect the level of growth trajectory as we documented in the self-study report. The fact that Mahatma Gandhi University has been chosen the best university in Kerala by the Chancellor of the State of Kerala during 2016 for the Award of Excellence is an indication that the steps being taken over a period of time are well rewarded.



MAHATMA GANDHI UNIVERSITY

Vol. II-A

**Evaluative Report of the Schools/
Departments**

Submitted to

National Assessment and Accreditation Council
for Re-accreditation

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SCHOOL OF BEHAVIOURAL SCIENCES

| | | | |
|----|---|---|---|
| 1. | Name of the Department | : | School of Behavioural Sciences |
| 2. | Year of establishment | : | 1988 |
| 3. | Is the Department part of a School/ Faculty of the University? | : | Yes, Faculty of Behavioural Sciences |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <p>PG:</p> <ul style="list-style-type: none"> • M.Sc Psychology • M.Sc Disability Studies and Rehabilitation Sciences • PG Diploma in Indian Sign Language <p>M.Phil:</p> <ul style="list-style-type: none"> • Behavioural Medicine and Rehabilitation (fulltime & part time) • Special Education and Rehabilitation Sciences • Rehabilitation Psychology • Behavioural Sciences and Rehabilitation Nursing <p>Ph.D:</p> <ul style="list-style-type: none"> • Behavioural Medicine • Special Education • Psychology • Rehabilitation Nursing |
| 5. | Interdisciplinary programmes and departments involved | : | All programmes are interdisciplinary in nature and hence the department has faculty from the disciplines of Psychology, Special Education (Mental Retardation, Visual Impairment, Hearing Impairment and Learning Disability), Clinical Psychology, Research Methodology and Statistics, Medicine and Nursing. |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | All the P.G and M.Phil courses are conducted establishing academic collaboration with relevant institutions inside and outside the state |
| 7. | Details of programmes discontinued, if any, with reasons | : | P.G Diploma in Guidance and Counseling, owing to shortage of faculty. |
| 8. | Examination System | : | Semester (Choice Based Credit System) |
| 9. | Participation of the department in the courses offered by other departments | : | Faculty members are members of the board of studies and panel of examiners in Education, Special education, & Psychology in M.G University, Calicut University, Kerala University, & Kannur University. |



| | | | | | | | |
|-----|---|--|---|--|------------|--------|------------------------------|
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/ Asst. Professors/ others) | | : | | Sanctioned | Filled | Actual (including CAS & MPS) |
| | | | | Professor | 1 | Nil | 1 |
| | | | | Associate Professors | 2 | 1 | 1 |
| | | | | Asst. Professors | 7 | 5 | 4 |
| | | | | Others | - | - | - |
| | | | | <ul style="list-style-type: none">• Dr. M.S Razeena Padmam, Professor, Psychology, Retired on 30.05.2015.• Dr.Elsheba Mathew, Asst. Professor, (Medicine) retired on April 2013.• Sri.James M.X, Asst. Professor (Clinical Psychology) is on long leave. | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of years of Experience | No. of Ph.D./M.Phil. Students guided for the last 6 years |
|--------------------------|----------------------------------|---------------------|-----------------------|----------------------------|---|
| Dr.P.S. Sukumaran | M.A, M.Ed., Ph.D | Professor | Special Education | 25 | Ph.D Awarded - 8 Ongoing – 7 Submitted - 1 M.Phil – 8 |
| Dr.Rajeevkumar N | M.A, Ph.D | Associate Professor | Clinical Psychology | 16 | Ph.D- 01 Submitted - 01 Ongoing - 9 M.Phil-09 |
| Dr.P.T. Baburaj | MA, M.Ed., Ph.D | Asst. Professor | Special Education | 25 | Ph.D Awarded - 01 Ongoing - 12 M.Phil - 14 |
| Dr. K. Muhammad Mustaffa | M.A, M.A(psy) M.Ed. M.Phil, Ph.D | Asst. Professor | Special Education | 10 | Ph.D Ongoing - 07 M.Phil - 10 |
| Mr. Rajesh E. | M.Sc, M.A, B.Ed | Asst. Professor | Special Education | 10 | Nil |
| Ms. Rincymol Mathew | M.Sc | Asst. Professor | Mental health Nursing | 20 | M.Phil-8 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl.No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|-------|--|---|---------------------|
| 1. | Ninan Kurien, Consultant Psychiatrist | Visiting Fellow | Behavioural Therapy |

13. Percentage of classes taken by temporary faculty- Programme-wise information.

| Programme | 2010-16 |
|---|---------|
| MSc. Psychology | 20 % |
| MSc. Disability studies and Rehabilitation Sciences | 20% |
| M.Phil | Nil |

14. Programme-wise Student Teacher Ratio:

| | |
|--|------|
| M.Sc. Psychology | 10:1 |
| M.Sc. Disability studies and Rehabilitation Sciences | 5:1 |
| M.Phil | 5:1 |
| Ph.D | 7:1 |

15. Number of academic support staff (technical) and administrative staff: Sanctioned, filled and actual:

| Academic support | Sanctioned | Filled & Actual |
|--|------------|-----------------|
| Technical staff (including special teachers, Psychologist, Clinic nurse, etc.) | 11 | 3 |
| Administrative staff | 4 | 4 |

16. Research thrust areas as recognized by major funding agencies:

- thrust areas
 - Counseling
 - Learning disability
 - Integrated education
 - Inclusive education.



• **Fund received from:**

- Tata Institute of Social Sciences (TISS), Mumbai
- Indian Council of Social Science Research (ICSSR), New Delhi
- Sarva Shiksha Abhiyan (SSA), Kerala

17. Number of faculty with ongoing projects from a) national- b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project – wise.

a) National :

| SL. No | Project Title | Period | Funding agencies | Fund in Lakh (₹) |
|--------|--|---------------------|-------------------------------|------------------|
| 1. | High School Students with Dyslexia (Dr. Rajeevkumar N) | 2013-15 (18 months) | ICSSR – New Delhi | 4.00 |
| 2. | Exclusive tendency in Inclusive Education (Dr. K.Muhamad Mustaffa) | 2014-15 | Sarva Siksha Abhiyan, Kerala. | 1.20 |
| 3. | Effectiveness of orientation programme for teachers in the management of behavioural problems (M.S. RazeenaPadmam) | 2014-15 (12 months) | ICSSR – New Delhi | 5.00 |

b) International : Nil

c) Total grants received : ₹ 10.2 Lakh

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: 1

| SL. No | Project Title | Period | Funding agencies | Fund in Lakh (₹) |
|--------|--|---------|---|------------------|
| 1. | GFATM Project - SAKSHAM (The Global Fund to Fight AIDS, Tuberculosis and Malaria, Round 7, HIV/AIDS Counselling Programme) | 2009-14 | WHO programme funded through Tata Institute of Social Sciences (TISS), Mumbai | 93.12 |

b) International collaboration- Nil

c) Total grants received: ₹ 93.12 Lakh

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc; total grants received: Nil

20. Research facility/Centre with

- State recognition :Yes
Yes, Inter University Centre for Disability Studies established to promote research and extension activities in the area of disability. Had projects supported by the Govt. of Kerala
- National recognition : Yes
- International recognition: Nil

21. Special research laboratories sponsored by created by industry or corporate bodies.

- Department has a psychology lab and audiology lab.

22. Publications:148

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 82 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 37 |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 4 |
| 7. | Books authored without ISBN | 3 |
| 8. | Articles in popular publications | 20 |
| 9. | Total | 148 |

Number listed in International Database (for e.g. Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory, EBSCO host, etc)

Rajesh E, Asst. Professor.

- Citation Index : 119
Impact Factor: 2016:2.262 & 5.2
Impact Factor: 2013: 1.2
Impact Factor: 2011: 3.192, 3.192 & 3.192
- H-index : 6
- i-10 index: 2

23. Details of patents and income generated : Nil



24. Areas of consultancy and income generated:

The school offers consultancy services in the area of mental health and disability identification and rehabilitation. Since there are social issues where maximum awareness creation and provision of services are required, most of the services are provided **free of cost**. A nominal fee is collected for audiometry, physiotherapy etc. Also the intellectually challenged students attending the vocational rehabilitation unit of the School are given a nominal remuneration for the physical work they do in the centre. The details of the various consultancy assignments are given below.

The **SANTHWANAM** counseling centre working in the School offer mental health consultancy services to the child and adolescent clients referred from medical colleges, Institute of child health, district hospitals, schools, colleges and so on. The services of an expert clinical psychologist is provided for **Psychological Testing and Assessment** (Assessment of attention, concentration, intelligence, personality, memory and assessment of psychological disorders), diagnostic evaluation, and various **Psychological Interventions** (counseling, psycho education, Individual and family psychotherapy, Family therapy, Behaviour modification and behavior therapy and other appropriate management procedures). The centre also issues certificates regarding Intellectual disability and learning disability and is accepted as a competent authority in this regard by the Department of Education and Government Medical colleges. Guidance and counseling services also are provided in this centre. **Counselling and guidance** to the students and parents of the Vocational Training Centre of School of Behavioural Sciences and their assessment have been carried out in the clinic at regular intervals. All the services of this centre is **extended free of cost** to enable better access to the needy population.

The year wise distribution of the clients attended the clinic is as follows.

| Year | No. of New Cases | No. of follow up cases. | Total No. of clients |
|--------------|------------------|-------------------------|----------------------|
| 2011 | 216 | 198 | 414 |
| 2012 | 300 | 214 | 514 |
| 2013 | 288 | 262 | 550 |
| 2014 | 166 | 122 | 288 |
| 2015 | 450 | 306 | 756 |
| 2016 | 372 | 198 | 570 |
| Total | 1792 | 1300 | 3092 |

The rehabilitation centre functioning in the School of Behavioural Sciences is unique in the country as it is attached to a state university and extend service to the intellectually challenged adults and their family. Presently the various skill training programmes of the centre are coordinated in 2 clusters. Each cluster has strength of 12-14 members. A file making unit functions in one of the cluster under the supervision of a special teacher (and supported by the students attending postgraduate and M.Phil programme in disability studies and special education) which trains the students in office file making. **Each file board is sold at a rate of Rs.14/unit.** The services of the unit have high demand.

The details of files sold are given below

| Year | No. of files sold |
|--------------------------|-------------------|
| 2012 | 3996 |
| 2013 | 2837 |
| 2014 | 8256 |
| 2015 | 5847 |
| 2016 | 6684 |
| Total (2012-2016) | 27620 |

Income generated: ₹ 3.86 Lakhs

25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad :

| Sl. No. | Name of the faculty | Details of visit |
|---------|---------------------|---|
| 1. | Dr. P S Sukumaran, | Resource person, Ramakrishna Mission Vivekananda University, Coimbatore, on February 25 – 27, 2011. (More included in Q No-27) |

26. Faculty serving in

a) National committees b) International committees C) Editorial Boards d) any other (please specify)

- a) National committee - Nil
- b) International committee - Nil
- c) Editorial board



| Sl. No. | Name of Faculty | Details |
|---------|--------------------------|--|
| 1 | Dr. P S Sukumaran | <ul style="list-style-type: none"> Member, Editorial board, Guru Journal of Behavioural and Social Sciences. ISSN:2320-9038 Review board member, Journal of Disability Management and Special Education. ISSN 2229-5143 Review board member, Disability, CBR, and Inclusive Development |
| 2 | Dr. Rajeev Kumar N | <ul style="list-style-type: none"> Associate Editor, Guru Journal of Behavioural and Social Sciences, ISSN:2320-9038 |
| 3 | Dr. P.T Baburaj | <ul style="list-style-type: none"> Editorial Board member, Culture Society and Law, ISSN: 2348-1250 |
| 4 | Dr. K. Muhammad Mustaffa | <ul style="list-style-type: none"> Editorial Board Member – International Research Journal in Psychology – Psychologist in Social Action. |
| 5 | Sri. Rajesh E | <ul style="list-style-type: none"> Editorial board member, Medical Science: http://medicalsecience.pubmedhouse.com/Home.php Editorial board member International Journal of Physiology and Pharmacology: http://nepjol.info/index.php/IJPP Editorial board member, Nepal Journal of Epidemiology: http://nepjol.info/index.php/NJE Editorial board member, International Journal of Brain Research: http://nepjol.info/index.php/IJBR |

d) Any other (Membership in Committees)

| Sl. No | Name of Faculty | Details |
|--------|-------------------|--|
| 1 | Dr. P S Sukumaran | <ol style="list-style-type: none"> Dean, Faculty of Behavioural Sciences, M.G. University Director of Research, Mahatma Gandhi University. Chairman, Grievance Redressal Committee for the affiliated colleges. Member, Academic Council, Mahatma Gandhi University Convenor, Core Committee, B. Ed Special Education, Mahatma Gandhi University. Convenor, Core Committee, M. Ed Special Education, Mahatma Gandhi University. Chairman, Board of Examiners, B Ed and M Ed Special Education, Mahatma Gandhi University. Member, Board of studies,(Behavioural Sciences), M.G. University Member, Standing Committee, Academic Council, Mahatma Gandhi University. Member, Planning Board, Mahatma Gandhi University. |



| | | |
|---|--------------------------|---|
| | | 11. Member, Building Committee, Mahatma Gandhi University. 12. Life Member and Advisory Board Member, Kerala Mandabudhi Kshema Samithi |
| 2 | Dr. Rajeev Kumar N | 1. Member Indian Association of Clinical Psychology 2. Member, Kerala Manasasthra Parishath 3. Member, Board of studies, (Behavioural Sciences), M.G. University 4. Member, Board of studies, (Psychology) University of Kerala 5. Member, Board of studies, (Pedagogical Sciences), M.G. University 6. Member, Board of studies, Psychology University of Calicut 7. Member, Board of studies, Psychology, Kannur University 8. Member, Board of studies, Life Long Learning, University of Calicut 9. Member, Human Ethics Committee, School of Biosciences, M.G. University 10. Secretary, Alumni, School of Behavioural Sciences, M G University. |
| 3 | Dr. P.T Baburaj | 1. Member, Board of studies, (Behavioural Sciences), M.G. University 2. Member, UGC-SC/ST Monitoring cell, M.G. University 3. Resource person, Rajagiri College of Social Sciences, Kalamassery 4. Resource person, Cochin University of Science and Technology, Ernakulam 5. Resource person, Sree Sankaracharya Sanskrit University, Kalady |
| 4 | Dr. K. Muhammad Mustaffa | 1. Member, Board of studies, (Behavioural Sciences), M.G. University. 2. Member, Board of studies, (Pedagogical Sciences), M.G. University. 3. Member, Board of studies, (Behavioural Sciences), Kannur University 4. Chairman, Board of studies, Lifelong learning, University of Calicut 5. Member, Kerala State Higher Education Council, Research committee 6. Special Officer, Department of rehabilitation, University of Calicut 7. Liaison officer for persons with different abilities, M.G. University 8. Honorary Director, Institute of Research in Learning Disabilities, M.G. University 9. Member Editorial Board: International Research Journal on Psychology 'Psychologist' in Social Action' Calicut University. |
| 5 | Sri. Rajesh E | 1. Member, Board of Studies, (Behavioural Sciences), M.G. University |



| | | |
|----|----------------------|---|
| | | <ol style="list-style-type: none"> Member, P.G.Board of Studies,(Pedagogical Sciences), M.G. University Member, Board of Studies, (Behavioural Sciences), Kannur University |
| 6. | Smt. Rincymol Mathew | <ol style="list-style-type: none"> Life Member,Trained Nurses Association of India Member, Board of studies,(Nursing-UG&PG), M.G.University Member, Board of studies,(Behavioural Sciences), M.G.University Adhoc inspector, Kerala Nursing Council Programme Officer, NSS M.G. University Campus unit Member, Advisory Board, NSS M.G.University Chairperson, Women's Gymnasium, M.G.University |
| 7. | Dr. Razeena Padmam | <ol style="list-style-type: none"> Chairperson, ,Board of studies,(Behavioural Sciences)M.G.University Member BOS – Pondicherry Central University. Member BOS –in Psychology, UG&PG, M.G University. Member–University Planning Board, M.G University. Member–University Publication Committee, M.G University Member–ICSSR - 2011 Member–UPSC - 2011 Member, Board of Studies in Psychology, Mahatma Gandhi University, Kottayam. |

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs):

HRD Programmes attended by Faculty

| Name of the faculty | Details of the programme |
|---|---|
| Rincymol Mathew, Asst. Professor | <ol style="list-style-type: none"> Attended one day workshop on capacity building for nurse educators organized by Government college of Nursing, Kottayam Attended faculty development programme organised by the University from 30/07/2015 - 12/08/2015 Attended UGC sponsored refresher course in Education conducted by, Academic Staff College, Kerala University from 03/02/2015 to 23/02/2015. |
| Sri. Rajesh. E , Assistant Professor | <ol style="list-style-type: none"> Participated orientation programme conducted by UGC-ASC, Calicut from 09/01/2015 to 06/02/2015. Attended UGC sponsored refresher course in research methodology in social sciences conducted by UGC Human resource development centre, University of Calicut from 05/08/2015 to 25/08/2015. |
| Dr.Razeena Padmam, Director (Retired on | <ol style="list-style-type: none"> Attended workshop on facilitating leadership and managerial efficiency organized by St.Xavier's Institute of Management, Bhuvaneswar from 27th -29th January 11. |



| | |
|--|--|
| 31.05.2015) | 2. Attended 3 days workshop on “counseling Skills” organized at Tata Institute of Social Sciences, Mumbai from 16-19 May 2011 |
| Dr. Rajeevkumar N, Associate Professor | <ol style="list-style-type: none"> 1. Attended one summer course organized by UGC Staff Academic College, Thiuruvananthapuram. 2. Attended level 1 and 2 workshop on Solution Focused Brief Therapy Organized by The Department of Clinical Psychology, Sri Ramachandra University, Chennai on 3rd – 10th March 2011. 3. Attended workshop on Applications of Projective Assessment held on 13 – 14 at Periyar University, Salam. 4. Participated National Conference on Neuro psychology and Cognitive Neuroscience held at NIMHANS Bangalore on 24th – 26th 2011 |

Participation in seminars/ conferences

2010 - 2011

| | |
|--|---|
| Dr.Razeena Padmam, Professor & Director 2010- 2011 | 1. Attended workshop on facilitating leadership and managerial efficiency organized by St.Xavier’s Institute of Management, Bhuvaneswar from 27th -29th January 11. |
| Prof. Dr. P.S Sukumaran 2010 - 2011 | National Level |
| | 1. Resource Person, National Seminar on Inclusive Education for Children with Mental Retardation – An Introspection. Faculty of Disability Management and Special education, Ramakrishna Mission Vivekananda University, Coimbatore, on February 25 – 27, 2011. |
| | State level |
| | 2. Resource person, Seminar on Analysis and Interpretation of Data. Government College of Nursing, Medical College, Kottayam. 02.07.2010. |
| | 3. Resource Person, Seminar on Learning Disability. SVGV Training College, Aranmula. 17.07.2010. |
| | 4. Resource Person, Seminar on Behaviour Modification. Mispah Special School, Kayamkulam. 21.07.2010. |
| | 5. Resource Person, Seminar on Special Education Research. Nirmala Sadan Training College for Special Education, Muvattupuzha. 06.10.2010. |
| | 6. Resource Person, Seminar on Special Education Research. Nirmala Sadan Training College for Special Education, Muvattupuzha. 20.11.2010. |
| | 7. Resource Person, Seminar in connection with World Disability Day on the topic, Role of Parents in the Education of Children with Disabilities. SSA Block Resource Centre, Ettumanoor. 03.12.2010. |
| | 8. Resource Person, Seminar on Mental Retardation, in connection with National Day of Persons with Mental Retardation. St. |



| | |
|--|--|
| | <p>Joseph Training College, Mannanam. 08.12.2010.</p> <p>9. Resource Person, Refresher Course in Education. Handled a session on Special Education. Academic Staff College, University of Kerala, Kariavattom. 13.12.2010.</p> <p>10. Delivered Keynote address in the Silver Jubilee Celebration of Nirmala Sadan Training College for Special Education, Muvattupuzha, on 05.01.2011.</p> <p>11. Resource Person, Seminar on Statistics in Special Education. Janey College of Allied Health, Eeroor, Thripunithura, on 17.02.2011.</p> <p>12. Resource Person, Seminar on Research in Special Education. Sneha Sadan College of Special Education, Ankamali, on 19.02.2011.</p> <p>13. Resource Person, Seminar on Mental Retardation. Navatheeram Trust, Thodupuzha, on 25.02.2011.</p> <p>14. Resource Person, Seminar on Special Education. Titus II Teachers College, Thiruvalla, on 01.03.2011</p> |
| Mr. Rajesh E. Asst. Professor 2010-2011 | <p>1. Participated the One day national seminar on Management of Learning Disabilities held on 22nd March 2011 at SCS Auditorium, M.G.University Campus.</p> |
| Ms. Rincymol Mathew Asst. Professor 2010-2011 | <p>1. Participated in National workshop on research in education from 3-9 April 2011 at Mount Carmel Teachers Training College, Kottayam</p> <p>2. Participated as resource person in the in-service education – Portfolio 2011 on the theme –Quality Assurance through Evidence Based Education organised at Caritas College of Nursing, Thellakom on 07/07/2011</p> <p>Resource Person, National Seminar on Challenges of Inclusive Education. School of Behavioural Sciences, Mahatma Gandhi University. 26.03.2013.</p> |
| Dr.Razeena Padmam, Professor & Director 2011 - 2012 | <p>1. Attended 3 days workshop on “counselling Skills” organized at Tata Institute of Social Sciences, Mumbai from 16-19 May 2011</p> |
| Prof. Dr. P.S Sukumaran 2011 - 2012 | <p>National Level</p> <p>1. Resource Person, Two day Seminar ‘Summit of Mind’, South Zone Regional Committee of Rehabilitation Council of India on Issues in Inclusive Education. Aluva, 27 – 28, February 2012.</p> <p>State level</p> |



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| | <ol style="list-style-type: none"> Chairman, Open Defence and Public Viva voce of Ph D Thesis. Department of Education, University of Kerala, Thiruvananthapuram. 23.05.2011. Resource Person, Seminar on Education of Children with Special Needs. Saraswathi Vidya Mandir, Kunnukara, Aluva, on 25.05.2011. Resource Person, Seminar in connection with the Anniversary of Self Help Groups of Thiruvalla, on 28.08.2011. Convened One Day Curriculum Revision Workshop on B Ed Special Education (Mental Retardation). Mahatma Gandhi University, Kottayam. 14.09.2011. Resource Person, Seminar on Values in Education, Technical School Teachers' Conference. YMCA Aluva, on 23.09.2011. Resource Person, Seminar on Research Proposals. Nirmala Sadan Training College for Special Education, Muvattupuzha. 24.09.2011. External Subject Expert, Doctoral Committee Meeting. School of Gandhian Thought and Developmental Studies, Mahatma Gandhi University, Kottayam, on 04.11.2011. Resource Person, Seminar on Mental Retardation. Navatheeram Rehabilitation Centre, Thodupuzha, on 31.03.2012. |
| Dr.Rajeev Kumar N, Asso. Professor 2011-2012 | <ol style="list-style-type: none"> Attended level 1 and 2 workshops on Solution Focused Brief Therapy Organized by The Department of Clinical Psychology, Sri Ramachandra University, Chennai on 3rd – 10th March 2011. Attended workshop on Applications of Projective Assessment held on 13 – 14 at Periyar University, Salem. Participated National Conference on Neuro psychology and Cognitive Neuroscience held at NIMHANS Bangalore on 24th – 26th 2011 Paper presented on “Psychosocial problems of school children- A pilot” study in the National Seminar on Psychological Counselling conducted by Department of Psychology, Govt. College for Women, Thiruvananthapuram on 6th& 7th January 2012. Presented a paper at National Seminar on Child Development Organized by Sree Sankaracharya University of Sanskrit, Kalady, on 22nd & 23rd Feb. 2012 on Impact of Emotional maturity in the perceptions of Parenting among High School Student Paper presented on “Emotional and Behavioural problem among juvenile children” in the Two day UGC sponsored National Seminar on “Stress and well being in adolescents - Role of Psychology” held on 30th and 31st March 2012 organized by Department of Psychology, S.V. University, Tirupati. |
| Mr.Baburaj P.T, Senior Lecturer 2011-2012 | <ol style="list-style-type: none"> P. T. Baburaj. Poster Presentation: UGC sponsored International Educational Meet on Education for Global Excellence. Mar Theophilos Training College, Thiruvananthapuram on 5th -7th January 2012. |



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| <p>Mr. Rajesh E. Asst. Professor 2011-2012</p> | <ol style="list-style-type: none"> 1. Convenor of International level Special lecture on 2nd January 2012 by Pavan J Antony, Assistant Professor, Adalphi University, U.S.A on the theme (1) International issue, laws and policies in Special Education.(2) Transition issues and children with disabilities. 2. Convenor of International level special lecture on 9th January 2012 by Anne M Mungai, Associate Professor, Adalphi University, U.S.A on the theme Multi- cultural Education and comparative education 3. Participated the Two day programme on Assistive Technology for Visually Challenged organized by C.H. Muhammed Koya Library, University of Calicut during 21st and 22nd October 2011 at University of Calicut. |
| <p>Ms. Rincymol Mathew Asst. Professor 2011-2012</p> | <ol style="list-style-type: none"> 1. Attended workshop on research methodology and statistics organised by IUCDS, Mahatma Gandhi University in association with ICSSR from 13-17 september2011 2. Participated in National Workshop on Science information literacy and scholarly writing organized by Mahatma Gandhi university library from 17-19 Jan,2012 |
| <p>Dr.Razeena Padmam, Professor & Director 2012-2013</p> | <ol style="list-style-type: none"> 1. Resource person on the topic-Micro Skills in Counseling – 2. Faculty Improvement Programme. organized at Trissur Engineering College, August 10th 2012, |
| <p>Prof. Dr. P.S Sukumaran 2012 - 2013</p> | <p>National Level</p> |
| | <ol style="list-style-type: none"> 1. Chairman, Open Defence and Public Viva voce of Ph D Thesis at Gandhigram Rural University, Tamil Nadu, on 21.05.2012. 2. Resource Person, National Seminar on Challenges of Inclusive Education. School of Behavioural Sciences, Mahatma Gandhi University. 26.03.2013. |
| | <p>State level</p> |
| | <ol style="list-style-type: none"> 1. Chaired Core Committee Meeting on M Ed Special Education Curriculum Revision. Mahatma Gandhi University, Kottayam, on 11.04.2012. 2. Resource Person, In-service Special School Teacher Training Programme. S H Generallate, Kottayam, on 09.05.2012. 3. Resource Person, Workshop on Scholastic Backwardness, Learning Disability and Mental Retardation. Homoeo Medical College, Kurichi, on 23.07.2012. 4. Attended Conference on Vocational Training and Employment of Persons with Disabilities. Organized by State Commissioner, Persons with Disabilities Act, 1995, Thiruvananthapuram, on 07.09.2012. 5. Resource Person, Seminar on Education and Rehabilitation of Children with Mental Retardation. Organized by State Institute |



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| | <p>for the Mentally Challenged at Calicut, on 28.10.2012.</p> <ol style="list-style-type: none"> External Subject Expert, Selection Committee for the Up gradation of UGC Junior Research Fellowship to UGC SRF. University of Kerala, Thiruvananthapuram on 29.10.2012. Resource Person, Seminar on Learning Disability. Inter University Centre for Disability Studies, Mahatma Gandhi University, on 30.10.2012. External Subject Expert, Doctoral Committee Meeting. School of Gandhian Thought and Developmental Studies, Mahatma Gandhi University, Kottayam, on 16.11.2012. Resource Person, Sitting of M K Jayaraj Commission on Mental Retardation, Kottayam, on 27.11.2012. Resource Person, Workshop for Homoeo Doctors on Management of Learning Problems of Children with Scholastic Backwardness, Learning Disability and Mental Retardation. Thodupuzha, on 12.12.2012. Resource Person, Workshop on Management of Mental Retardation. State Resource Centre, MHRD, Government of India, Thiruvananthapuram. 19.01.2013. Resource Person, Continuing Rehabilitation Education Programme. State Institute for the Mentally Challenged, Thiruvananthapuram. 30.01.2013. Resource Person, One day Seminar on Learning Disability. Porukkara College of Education, Champakulam. 08.02.2013. Resource Person, Workshop on Research Methodology and Statistics. TMA Counselling Centre, Ammancherry. 09.02.2013. Resource Person, M Ed Special Education (Mental Retardation) Curriculum Workshop. Department of Education, University of Kerala, Thiruvananthapuram. 07.03.2013. Resource Person, M Ed Special Education (Mental Retardation) Curriculum Workshop. Department of Education, University of Kerala, Thiruvananthapuram. 27.03.2013. |
| <p>Dr.Rajeev Kumar N, Asso. Professor 2012-2013</p> | <ol style="list-style-type: none"> Presented paper on “Frustration tolerance and Adjustment among Dyslexic students in the International Conference held on 15th to 17th June 2012 organized by TOC H Institute of Sciences &Technology, Ernakulam, in association with the Indian Academy of Applied Psychology. Presented a paper on “Verbal fluency and design fluency of children with dyslexia” in the three day National Conference of Indian School Psychology Association held on 22nd to 24th November 2012 at University of Calicut. Attended a National training seminar on Counselling and Psychotherapy organized by SPSA at Calicut on 23rd – 25th Jan. 2012 Attended a National Seminar on Life Style Diseases held in connection with INFOBA 2012 at School of Bio Sciences, M G University on 19-20 Jan. 2012 |



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| | <ol style="list-style-type: none"> 5. Attended a workshop on Rorschach Ink Blot test held on 9 – 11 March 2012 at Sri Rama Chandra University , Chennai 6. Participated in a conference on Psychological and social aspects of Atrocities Against Women, organized by School of Behavioural Sciences, Mahatma Gandhi University, Kottayam on 31st January 2013. 7. Presented a paper on Emotional and Behavioural problems among children of Juvenile Homes, Slums, and Rural setting at the International Conference on protection of Child rights: Issues and challenges, on 18 – 20 Jan 2013 organised by department of Psychology, Pondicherry University. 8. Delivered a session on “Classroom Management of Students with Dyscalculia” in the one day seminar on classroom management of students with Learning Disabilities conducted by school of Behavioural Sciences in association with Ys Men’s Club, Kottayam on 23rd January 2013. 9. Participated national workshop on statistics for Psychological research held on 4th & 5th January 2013 at Women’s College, Thiruvananthapuram. |
| Dr. Baburaj P.T, Senior Lecturer 2012 - 2013 | <ol style="list-style-type: none"> 1. P. T. Baburaj and Priyachandra K. Paper Presented on Emotional Social and Educational Adjustment of students with hearing impairment in Higher Secondary Level. UGC sponsored National Seminar on Education for National and Emotional Integration. St.Thomas College of Teacher Education, Pala on 5th -6th June 2012 2. P. T. Baburaj and Chothisha K.S. Emotional maturity and marital adjustment of persons with hearing impairment. UGC sponsored National Seminar on Education for National and Emotional Integration. St.Thomas College of Teacher Education, Pala on 5th -6th June 2012 3. P. T. Baburaj and Vidyamol V. K. Stress among the mothers of hearing impaired children attending Special Schools. UGC sponsored National Seminar on Education for National and Emotional Integration. St.Thomas College of Teacher Education, Pala on 5th -6th June 2012 4. P. T. Baburaj and Jyothi P. Mental Health of Hearing Impaired Secondary School students. UGC sponsored National Seminar on Education for National and Emotional Integration. St.Thomas College of Teacher Education, Pala on 5th -6th June 2012 5. P. T. Baburaj and Meenu. Job stress among the teachers of children with hearing impairment. UGC sponsored National Seminar on Education for National and Emotional Integration. St.Thomas College of Teacher Education, Pala on 5th -6th June 2012 6. P. T. Baburaj and Divya. A study on parent, child interaction among hearing impaired children and visually impaired children. |



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| | <p>UGC sponsored National Seminar on Education for National and Emotional Integration. St.Thomas College of Teacher Education, Pala on 5th -6th June 2012</p> <p>7. P. T. Baburaj . Two International Conferences on inclusion: Understanding children with disabilities to build inclusive communities on January 11-12 2012 at Assumption College, Changanacherry.</p> <p>8. P. T. Baburaj. Two day seminar on learning disability. Organized by IUCDS, Mahatma Gandhi University.</p> |
| Dr.Elsheba Mathew Lecturer 2012 - 2013 | <p>1. UGC sponsored national seminar on Aging and Society: A multidisciplinary Approach, 4-5 October 2012 at St. Teresa's College, Ernakulam.</p> <p>2. Attended two day international seminar on dementia care training organized by ARDSI at Kottayam, Oct 2012.</p> |
| Mr. Rajesh E. Asst. Professor 2012-2013 | <p>1. Participated the International Conference on research methodology and scientific writing held on 21st and 22nd December 2013 at M.G.University as organizer.</p> |
| Rincymol Mathew, Asst. Professor 2012 - 2013 | <p>1. Attended the International Seminar on Evidence Based Practice in Nursing & EBP in simulation on 8th March 2013 organized by University College of Nursing, Thalappady.</p> <p>2. Attended Dementia Care Training Programme on 6&7 of July 2012 at Mount Carmel Teachers Training College, Kottayam in association with Bangor University, UK and Institute for Person Centred Approaches in India.</p> <p>3. Resource Person, ELIXIR- 2012 "Aligning Nursing Education with Nursing, Practice" on 15th December 2012.</p> <p>4. Attended workshop on Capacity building, for nurse educators on 17th August 2012.</p> <p>5. Attended UGC sponsored National Seminar on Aging & Society: A Multidisciplinary Approach conducted by St. Teresa's College, Ernakulam on 5th October 2012.</p> <p>6. Attended the CME on Applied statistics in clinical research organized by Govt. College of Nursing, Kottayam from 17-18 January 2013</p> <p>7. Participated in the Translator's Orientation programme from 13-16 February 2013 organized by National Translation Mission</p> <p>8. Participated and chaired a session in the National Conference of Indian society of Psychiatric Nurses organized by West fort College of Nursing from 25-27 MARCH 2013</p> <p>9. Paper presented "Identification and Management of Dyslexia" Seminar on Learning Disabilities organized by School of Behavioural Sciences in Collaboration with Y's Men's Club, Kottayam. 23.1.2013.</p> <p>10. Participated in the International conference on Global public Health and social work during 3-5 January 2013 organized by</p> |



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| | <p>Rajagiri Institute of Social Sciences, Cochin, Kerala.</p> <p>11. Attended Orientation and sensitization programme on Management and empowerment of person with multiple disabilities' organized by NIEPMD in collaboration with Inter University Centre for Disability Studies(IUCDS), M.G University, Kottayam on 13th September.</p> <p>12. Participated the Two day International Workshop on Search, Research, Present and Publish as organizer during 12th and 13th August 2013.</p> |
| Dr. Razeena Padmam, Director 2013 - 2014 | <p>1. Meeting of Experts panel on Disability- Govt. of Kerala on 3.12.2013.</p> <p>2. Attended the workshop on "GFATM- Project Experience" from 10.6.2013 to 13.6.2013 organized Tata Institute of Social Sciences, Mumbai'</p> |
| Prof. Dr. P.S Sukumaran 2013 - 2014 | <p>National Level</p> <p>1. Resource Person, National Seminar on Mental Retardation – Empowering Professionals for Better Service. Nirmala Sadan Training College for Special Education, Muvattupuzha. 20 – 21, May, 2013.</p> <p>2. Attended International Workshop on Building up Research. School of Behavioural Sciences, Mahatma Gandhi University. 12 – 13, August, 2013.</p> <p>3. Attended, International Conference on Research Methodology and Scientific Writing. School of Behavioural Sciences, Mahatma Gandhi University. 20 – 21, December, 2013.</p> <p>4. Attended "Summit of Mind" – National Conference of Rehabilitation Professionals. Rehabilitation Council of India, New Delhi. 7 – 8, February 2014</p> <p>5. Resource Person, National Curriculum Workshop on Mental Retardation. SCERT, Thiruvananthapuram. 17 – 18, April 2013.</p> <p>State level</p> <p>6. Resource Person, M Ed Special Education (Mental Retardation) Curriculum Workshop. Department of Education, University of Kerala, Thiruvananthapuram. 15.04.2013.</p> <p>7. Resource Person, One day Seminar on Special education. St Joseph's Training College, Mannanam. 09.05.2013.</p> <p>8. Resource Person, Conference on Education of Children with Special Needs. DIET, Ernakulam. 20.06.2013.</p> <p>9. Resource Person, Curriculum Workshop on Mental Retardation. SCERT, Thiruvananthapuram. 11 – 12, July 2013.</p> <p>10. Resource Person, One day Seminar on Parent Involvement in the Education of Children with Mental Retardation. Deepthi DCMR Special School, Theekoy. 26.07.2013.</p> <p>11. Resource Person, One day Seminar on Role of Special Teachers</p> |



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| | <p>in the Rehabilitation of the Mentally Challenged. District Special Teachers Association, Pathanamthitta. 05.09.2013.</p> <p>12. Resource Person, Conference on Rehabilitation of Students with Mental Retardation. Department of Social Work, K. E. College, Mannanam. 18.10.2013.</p> <p>13. Resource Person, Conference on Inclusive Education. DIET, Thiruvalla. 11 – 12, November 2013.</p> <p>14. Resource Person, Conference on Inclusive Education Project. DIET, Thiruvalla. 15.03.2014.</p> <p>15. Resource person, Curriculum Workshop on Mental Retardation. State Resource Centre, Thiruvananthapuram. 19.03.2014.</p> <p>16. Resource Person, Seminar on Issues in the Education of Children with Mental Retardation. Special Educators Association, Kozhikode. 22.03.2014.</p> |
| <p>Dr. Rajeev Kumar N. Associate Professor 2013-2014</p> | <p>1. Paper presented on Impact of M.R on Family, in the International conference on Research Methodology and scientific writing organized by School of Behavioural Sciences and Confederation of Epidemiological Association held on 21st and 22nd December 2013.</p> <p>2. Presented a paper on Stress among Clergy, in the International conference on Research Methodology and scientific writing organized by School of Behavioural Sciences and Confederation of Epidemiological Association held on 21st and 22nd December 2013.</p> <p>3. Presented a paper on Emotional and behavioural problems of children of orphanage in Kerala, in the International conference on Research Methodology and scientific writing organized by School of Behavioural Sciences and Confederation of Epidemiological Association held on 21st and 22nd December 2013.</p> <p>4. Presented a paper on Use of social media to explore the professional issues in the field of clinical psychology, in the International conference on Research Methodology and scientific writing organized by School of Behavioural Sciences and Confederation of Epidemiological Association held on 21st and 22nd December 2013.</p> <p>5. Chaired two sessions in the International conference on Research Methodology and scientific writing organized by School of Behavioural Sciences and Confederation of Epidemiological Association held on 21st and 22nd December 2013.</p> <p>6. Participated and presented a paper on stress among clergy in the Indian Orthodox Church in the UGC sponsored National Conference on enhancing Psychological well being held at department of psychology Bharathiar University, Coimbatore on 20-21 Feb. 2014.</p> |



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| | <ol style="list-style-type: none"> 7. Attended UGC sponsored National Workshop on Research methodology for academic Research held at School of Gandhian studies, MG University on 3rd to 7th Feb. 2014 8. Attended a two days workshop on mental Health Problems in Mental retardation, Identification and management held on 26- 27 Feb2014. Organized by Department of Clinical Psychology Sri Ramachandra University, Chennai. 9. Attended a two days workshop on Family and Marital Therapy held on 10-12 Oct. 2014. Organized by Department of Clinical Psychology Sri Ramachandra University, Chennai. |
| Dr. Baburaj P.T, Senior Lecturer 2013 - 2014 | <ol style="list-style-type: none"> 1. P. T. Baburaj. Attended and presented papers on UGC sponsored National Seminar on “Learning disability” No child left behind. On 27-28 June 2013. 2. Participated in the two day International conference on “current Trends in Public Health and Hospital Administration” modulation January 2014 by Divisional Health management, University College of medical education, M.G University, Kottayam. |
| Dr. K.M Muhamed Mustaffa Asst. Professor 2013 - 2014 | <ol style="list-style-type: none"> 1. International conference on Research Methodology and scientific writing organized by School of Behavioural Sciences and Confederation of Epidemiological Association held on 21st and 22nd December 2013. |
| Mr. Rajesh E. Asst. Professor 2013-2014 | <ol style="list-style-type: none"> 1. Participated the Two day International Workshop on Search, Research, Present and Publish as organizer during 12th and 13th August 2013. |
| Rincymol Mathew, Asst. Professor 2013-2014 | <ol style="list-style-type: none"> 1. Presented paper on ‘Emotional intelligence and perceived stress on B Sc Nursing students’. In the International Conference on Research Methodology and Scientific Writing. School of Behavioural Sciences and Confederation Epidemiological Associations, Kottayam. 21.12.2013. 2. Presented paper on ‘Hyper tension- the health risk concern’. International Conference on Research Methodology and Scientific Writing. School of Behavioural Sciences and Confederation Epidemiological Associations, Kottayam. 21.12.2013. 3. Organized ‘World Health day’ observation on 7th April 2013 at School of Behavioural Sciences, M.G University. 4. Presented paper on the application of Evidence based Nursing – Seminar on Nursing Practice - University College of Nursing, Gandhinagar. 5. Invited talk on Therapeutic Communication, delivered at Govt. College of Nursing, Kottayam.21.12.2013. 6. Organized International Workshop on Building up Research, 11-13, August, 2013. |



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| Prof. Dr. P.S Sukumaran 2014 - 2015 | National Level |
| | <ol style="list-style-type: none"> 1. Resource Person, National Seminar on Inclusive Education – an Imperative for Learning to Live Together. Titus II Teachers College, Thiruvalla. 9 – 10, October 2014. 2. Chaired Paper Presentation Session in the National Seminar on ‘Ageing Gracefully – a Multidisciplinary Perspective’. School of Gandhian Thought and Developmental Studies, Mahatma Gandhi University. 24.11. 2014. 3. Presented Paper in the National Seminar on Paradigms of Educational Research for the 21st Century: Equipping Gen Next with Reflective Approaches. Avila College of Education, Edakochi. 05.12.2014 4. Resource Person, National Workshop on Quantitative Research and Data Analysis. Government College of Teacher Education, Thiruvananthapuram. 16.12.2014. 5. Resource Person, National Seminar on Education of Children with Intellectual Disability – Problems and Prospects. NSS Training College, Ottapalam. 06.02.2015 6. Resource Person, National Seminar on New Perspectives on Inclusive Education of Children with Special Needs. DIET, Wayanad, Sultan Bathery. 27.03.2015. |
| | State level |
| | <ol style="list-style-type: none"> 1. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 11.04.2014. 2. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 24.04.2014. 3. Resource person, Workshop on Rehabilitation of Individuals with Mental Retardation. State Resource Centre, Thiruvananthapuram. 25.04.2014. 4. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 5 – 6, May 2014. 5. Resource person, Workshop on Rehabilitation of Individuals with Mental Retardation. State Resource Centre. Kozhikode. 23.05.2014. 6. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 17.06.2014. 7. Resource Person, Seminar on Research in Disabilities. IUCDS, Mahatma Gandhi University. 29.08.2014. 8. Resource Person, Curriculum Workshop on Mental Retardation. SCERT, Thiruvananthapuram. 20.09. 2014. 9. Resource Person, One day Seminar on Enhancing Parental Involvement in Special education. Holy Cross Special School, Mannackanad. 23.09.2014. 10. Resource Person, ‘Inspire – an Investigation in to the Rehabilitation of the Mentally Challenged’. State Institute for the |



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| | <p>Mentally Challenged. Malappuram. 25.10.2014.</p> <p>11. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 30.10.2014.</p> <p>12. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 21.11.2014.</p> <p>13. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 1 – 2, December 2014.</p> <p>14. Organized one day Seminar on National Trust Act, 1999 for the Parents of Individuals with Autism, Cerebral Palsy, Mental retardation and Multiple Disabilities. School of Behavioural Sciences, Mahatma Gandhi University. 15.12.2014.</p> <p>15. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 30 – 31, December 2014.</p> <p>16. Resource Person, VHSE Curriculum Workshop. SCERT, Thiruvananthapuram. 14.01.2015.</p> <p>17. Resource Person, Symposium on Issues of Mentally Challenged. State Institute for the Mentally Challenged, Thiruvananthapuram. 22.01.2015.</p> <p>18. Convened an Orientation Seminar on New Regulations of Rehabilitation Council of India and National Council of Teacher Education for B Ed Special Education. School of Behavioural Sciences, Mahatma Gandhi University. 05.02.2015.</p> <p>19. Resource Person, One day Seminar on Education of Differently Abled Children – Redefining the Role of Teacher Educators. St. Mary's College of Teacher Education, Thiruvalla. 13.03.2015.</p> <p>20. Resource Person, Seminar on Education of Children with Intellectual Disability. National College for Teacher Education, Vengola, Perumbavoor. 25.03.2015.</p> |
| Dr. Rajeev Kumar N. Associate Professor 2014-2015 | <p>1. Delivered a talk on Psychology in 21st century at the Microbiological Conference organized by department of Microbiology, SME, held on 8th April 2015 at assembly hall M.G. university</p> |
| Dr. Baburaj P.T, Senior Lecturer 2014 - 2015 | <p>1. Attended three days International Symposium on “Assistive Technology for Rehabilitation and Management” on 2-4 December 2014 at Thiruvananthapuram.</p> <p>2. Paper presented on ‘Knowledge and attitude of Adolescent girls on sex education’. National Seminar on paradigms of educational research for the 21st century equipping gen next relative approaches on 5th and 6th December 2014.</p> <p>3. Resource Person in the 25th anniversary of UNCRC seminar on 15.12.2014 at BCM College, Kottayam.</p> <p>4. Documentary film ‘titled Retrofit car kit for physically Challenged’ presented in the three-day International Symposium</p> <p>5. Resource person for One day parents training programme for the</p> |



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| | <p>mentally challenged at Kollappilly, Pala on 20.12.2014.</p> <ol style="list-style-type: none"> 6. Resource Person: One day parents Training at Santhi Niketan Special School for mentally challenged, Anthinad, Pala on 10.02.2015 7. Presented paper on International 'Ear care day on 03.03.2015 at School of Behavioural Sciences, at School of Behavioural Sciences. 8. Presented paper by Priyachandra K and Dr. P.T Baburaj on Cochlear Implantation. International conference on "current Trends in Public Health and Hospital administration 'Medilian 2015' organized by Division of Health Management, School of Medical Education, Mahatma Gandhi University, Kottayam on 26th o- 27th March 2015. |
| <p>Mr. Rajesh E. Asst. Professor 2014-2015</p> | <ol style="list-style-type: none"> 1. Organized as Co-ordinator, Sree Narayana Guru Chair, Inauguration of the Sree Narayana Guru Chair on 5th May 2014 at Assembly Hall, Mahatma Gandhi University. 2. Organized as Co-ordinator, Sree Narayana Guru Chair, Speech on Daivadashakom and Recitation of Guru Deva's Poetry at Kavi Kumara Mandir, Auditorium, Nagambadom on 27th May 2014. 3. Organized as Co-ordinator, Sree Narayana Guru Chair, One Day State Level Silpasala on Personality Development for children held on 2nd August 2014 at School of Biosciences Auditorium, M.G.University. 4. Organized as Co-ordinator, Sree Narayana Guru Chair, Speech on Daivadashakom and Recitation of Guru Deva's Poetry at Neendoor Sree Narayana Auditorium on 24th August 2014. 5. Organized as Co-ordinator, Sree Narayana Guru Chair, Daivadashakom Rachana Varshikam Centenary Speech at Assembly Hall, Mahatma Gandhi University on 17th November 2014. 6. Organized as Co-ordinator, Sree Narayana Guru Chair, Book Review and Discussion on the book "Sree Narayana Guru Dev: The Maharshi who made Advaita a Science, written by G.K.Sashidharan (Former Vice-Chancellor, University of Calicut) held at School of Gandhian Thought and Development Studies, Auditorium, Mahatma Gandhi University on 30th March 2015. 7. Participated in short course on Fundamentals of Biostatistics, Principles of Epidemiology and SPSS held during March 16-20, 2015, organized by Dept of Biostatistics, CMC, Vellore. |
| <p>Rincymol Mathew, Asst. Professor 2014 – 2015</p> | <ol style="list-style-type: none"> 1. Participated in the two days workshop on Graceful and meaningful ageing for senior citizens on 17th 18th October 2014, at School of Gandhian Thought and Development Studies, M.G. university |



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| | National Level |
| | <ol style="list-style-type: none"> 1. Resource Person, National Conference on ‘Vision – 2020 – Total Mainstreaming of Intellectually Challenged’. State Institute for the Mentally Challenged, Thiruvananthapuram. 22.04.2015. 2. Attended National Seminar of International Researchers of Indian Origin. St. Joseph Training College, Mannanam. 04.12.2015. 3. Resource Person, International Seminar on Inclusive Education – Prospects and Challenges. St. John the Baptist’s College of Special Education, Nedumkunnam. 27.01.2016. |
| Prof. Dr. P.S Sukumaran 2015 - 2016 | State level |
| | <ol style="list-style-type: none"> 4. Convened Core Committee Meeting of B Ed Special Education (Mental Retardation) for the Curriculum Revision. School of Behavioural Sciences, Mahatma Gandhi University. 23.04.2015. 5. Resource Person, Seminar in connection with Down Syndrome Day. Alan Foundation, Changanchery. 06.06.2015. 6. Convened Core Committee Meeting of M Ed Special Education (Mental Retardation) for the Curriculum Revision. School of Behavioural Sciences, Mahatma Gandhi University. 24.06.2015. 7. Organized one day Orientation Programme for Research Scholars. School of Behavioural Sciences, Mahatma Gandhi University. 25.06.2015. 8. Resource Person, Curriculum Workshop on M Ed Special Education (Mental Retardation). Department of Education, University of Kerala, Thiruvananthapuram. 30.06.2015. 9. Delivered Inaugural Address, Workshop on ‘Novum Scientia on Creating a New Culture of Teaching and Learning’. Government College of Nursing, Kottayam. 25.07.2015. 10. Resource Person, One Day Seminar on Special Education. Teacher Training Institute, Chalakudy. 05.08.2015. 11. Resource Person, Workshop on Research Methodology and Statistics. K V M College of Special Education, Cherthala. 07.09.2015. 12. Convened a Symposium on Restructured Curriculum of B Ed Special Education (Intellectual Disability). School of Behavioural Sciences, Mahatma Gandhi University. 10.09.2015. 13. Resource Person, Workshop on Research Methodology and Statistics. IUCDS, Mahatma Gandhi University. 16.09.2015. 14. Chief Guest, Felicitation to Winners of Paralympics. Holy Cross Special School, Mannackanad, Kuravilangad. 19.09.2015. 15. Resource Person, Expert Committee Meeting on Research Project on Mental Retardation. Convened by Chief Minister, Secretariat, Thiruvananthapuram. 21.10.2015. 16. Resource Person, One Day Seminar on Rehabilitation of the Differently Abled. Mispah Pariseelana Kendra, Kayamkulam. 20.11.2015. |



| | |
|--|---|
| | <ol style="list-style-type: none"> 17. Resource Person, Silver Jubilee Seminar of Marion Play Home-Special School for the Children with Mental Retardation, Mannanthala, Thiruvananthapuram. 28.11.2015. 18. Resource Person, In service Training and Sensitization of Key Functionaries of Central and State Government, Local Bodies and Other Service Providers. State Institute for the Mentally Challenged, Thiruvananthapuram. 02.12.2015. 19. Chief Guest, Convocation of Diploma in Special Education (Autism). Kusumagiri Training Institute for Special Education, Kakanad, Ernakulam. 25.01.2016. 20. Resource Person, Seminar on Indian Perspectives of Education. Saraswati Vidya Mandir, Kunnukara. 13.02.2016. 21. Convened Meeting of Researchers' Forum. School of Behavioural Sciences, Mahatma Gandhi University. 26.02.2016. 22. Convened Parent Teacher Association Meeting. School of Behavioural Sciences, Mahatma Gandhi University. 08.03.2016. 23. External Subject Expert, Assessment Committee for the Up gradation of UGC JRF to UGC SRF. University of Kerala, Thiruvananthapuram. 07.04.2016. 24. Chaired the Board of Studies Meeting, School of Behavioural Sciences, Mahatma Gandhi University. 13.04.2016. 25. Resource Person, Seminar on Statistical Analysis. Department of Psychology, Jointly organized by K E College, Mannanam and School of Behavioural Sciences, Mahatma Gandhi University. 22nd & 25th April 2016. 26. Chaired Curriculum Workshop. School of Behavioural Sciences, Mahatma Gandhi University. 28th & 29th April 2016. 27. Chaired the Board of Studies Meeting. School of Behavioural Sciences, Mahatma Gandhi University. 29.04.2016. 28. Convened University Research Committee Meeting, Mahatma Gandhi University. 11.05.2016. |
| <p>Dr. Rajeev Kumar N. Associate Professor 2015-2016</p> | <ol style="list-style-type: none"> 1. Served as a resource person in the national Seminar on Professionalizing Psychology in India organized by Department of Psychology K.E. College, Kottayam on 17-19 Sept. 2015 2. Presented a paper on Creative thinking and imaginary thinking of Learning Disabled and slow Learners in the two day National Conference on Models of Best Practices in Rehabilitation for the empowerment of persons with Disabilities on 16-17, October 2015. 3. Presented a paper on Disability and Rehabilitation. in the two day National Conference on Models of Best Practices in Rehabilitation for the empowerment of persons with Disabilities on 16-17, October 2015. 4. Delivered a talk on behavioural assessment and Social skills of person with disabilities at Sanjose Vidhyalaya, Ettumanoor, Kottayam on 15/12/2015 |



| | |
|--|---|
| | <ol style="list-style-type: none"> 5. Attended the three days workshop on clinical Hypnosis; basic and beyond organized by department of clinical psychology Sri Ramachandra University Chennai on 12-14 June 2015. 6. Delivered a talk in the training programme on independent living for persons with PDD held at Pratheeksha training centre, Thrissur on 6/01/2016 7. Attended two days national seminar on relevance of Yoga in modern life organized by centre for yoga and naturopathy M G University on 18-19 March 2016 |
| Dr. Baburaj P.T, Senior Lecturer 2015 - 2016 | <ol style="list-style-type: none"> 1. Organized Two day National Conference on 'Models of Best Practices in Rehabilitation for the empowerment of persons with Disabilities on 16-17, October 2015. 2. Presented paper by Daisy Philip and Dr. P.T Baburaj on Knowledge of Hearing Impaired Adolescent Girls on Sex Education. Two day National Conference on Models of Best Practices in Rehabilitation for the empowerment of persons with Disabilities on 16-17, October 2015. IUCDS, Mahatma Gandhi University. 3. Presented paper by Chothisha K.S and Dr. P.T. Baburaj on Advancement of Assistive Devices for physically challenged. Two day National Conference on Models of Best Practices in Rehabilitation for the empowerment of persons with Disabilities on 16-17, October 2015. IUCDS, Mahatma Gandhi University. 4. Presented paper by Nisha T.S and Dr. P.T. Baburaj – Evolution of Hearing Aid. Two day National Conference on Models of Best Practices in Rehabilitation for the empowerment of persons with Disabilities on 16-17, October 2015. IUCDS, Mahatma Gandhi University. 5. Presented paper by Dr. P.T. Baburaj and Priyachandra K.- A study on Expectations and academic achievement of children with hearing impairment. Two day National Conference on Models of Best Practices in Rehabilitation for the empowerment of persons with Disabilities on 16-17, October 2015. IUCDS, Mahatma Gandhi University. 6. Attended Seminar on 'Persons with Disabilities' organized by Institute for Person Centred Approach, St. Joseph's College, Moolamattom on 25-26, November 2015. 7. Organized One day Seminar on 'Access and Empowerment of People with all Disabilities' on World Disability Day (3.12.2015). 8. Attended Seminar on 'Persons with Disabilities' organized by Institute for Person Centred Approach, St. Joseph's College, Moolamattom on 25-26, November 2015. |
| | <ol style="list-style-type: none"> 1. Presented paper on Models of best practices in the National Conference organized by National Institute of Empowerment of Persons with Disabilities, IUCDS and School of Behavioural |



| | |
|---|---|
| <p>Dr. K.M Muhamed Mustaffa Asst. Professor 2015 - 2016</p> | <p>Sciences on 16-17, September 2015.</p> <ol style="list-style-type: none"> Coordinated Two Weeks Continuing Rehabilitation Education Refresher Course on Braille from 26.09.2015 – 10.10.2015. Presented a Project on Exclusive tendency in Inclusive Education, at Sarva Siksha Abhiyan (SSA), Govt. of Kerala on 07.10.2015. Presented theme paper in the observation of World Deaf Day on 11.10.2015. Delivered Extension Lecture at University of Calicut, organized by Dept. of Life Long Learning and Extension on 17.10.2015. Paper presented on Trends and Development in Sign Language Interpretation, at the Seminar held on 10.11.2015 in the School of Behavioural Sciences. Presented paper by Dr. Arya Mohan and Dr. Muhamad Mustaffa. On An analytical study on the effect of Homoeopathic Medicines in the management of conduct disorders. International Conference on Standards and Benchmarks for excellence in learning, teaching and research, organized by All India Association for Educational Research, Dept. of Education, University of Kerala, Thiruvananthapuram, 26-28, November, 2015. Presented paper by Gayathri Devi M.S and Dr. Muhamad Mustaffa on Awareness and attitude of students of M.G University towards the persons with Disabilities and their special needs. International Conference on Standards and Benchmarks for excellence in learning, teaching and research, organized by All India Association for Educational Research, Dept. of Education, University of Kerala, Thiruvananthapuram, 26-28, November, 2015. Presented paper by Jibin George and Dr. Muhamad Mustaffa on A study on attitude of psychiatrists, clinical psychologists and special educators towards specific learning disabilities. International Conference on Standards and Benchmarks for excellence in learning, teaching and research, organized by All India Association for Educational Research, Dept. of Education, University of Kerala, Thiruvananthapuram, 26-28, November, 2015. Presented paper by Dr. Remya R and Dr. Muhamad Mustaffa on An analytical study on the effect of Homoeopathic Medicines in the Academic achievement of students with specific learning disorders. International Conference on Standards and Benchmarks for excellence in learning, teaching and research, organized by All India Association for Educational Research, Dept. of Education, University of Kerala, Thiruvananthapuram, 26-28, November, 2015. |
| <p>Mr. Rajesh E. Asst. Professor 2015 - 2016</p> | <ol style="list-style-type: none"> Darshanika seminar held at Elavanthitta on 15-6-2015 Shilpasala on Family Integrity in Gurudeva's vision on 3-7-2015 Shilpasala on Leadership for children & youth held on 1-8-2015 |



| | |
|---|--|
| | <ol style="list-style-type: none"> 4. Seminar on Gurudeva's vision on Religion held at Press Club Hall, Trivandrum on 16-10-2015 5. Conducted Shilpasala on Creativity for children & youth held on 31-10-2015 6. Participated the Three day Workshop on Empowering teachers in mentoring and student counseling organized by School of Behavioural Sciences, M.G. University on 29th, 30th & 31st March 2016. 7. Participated in the one day workshop on NAAC Accreditation Process held at SPAP Auditorium conducted by IQAC of M.G. University on 12th April 2016. 8. Participated in the two day workshop on Curriculum Revision conducted by School of Behavioural Sciences, M.G. University on 28th & 29th April 2016. 9. Participated in the one day workshop on Research Methodology: Tool Construction and Test Standardisation on 8th July 2016 conducted by IUCDS, M.G. University. 10. Participated in the national level hands-on-training workshop on Structural Equation Modelling [SEM] using IBM SPSS AMOS conducted by Christ University, Bangalore during 2016 September 28-30 at Nodal Office Trivandrum. |
| <p>Rincymol Mathew, Asst. Professor 2015 - 2016</p> | <ol style="list-style-type: none"> 1. Delivered a lecture on 'Challenges of Adolescence' for the students of Model Residential School, Ettumanoor on 20.12.2015. 2. Acted as Resource Person and took a class on 'Personality Development' for the student police cadets, AJ John Memorial Govt. High School, Thalayolaparambu on 21.12.2015. 3. Delivered a lecture on 'Graceful Aging' to the senior citizens, organized Y's Men's Club, Kottayam on 09.10.2015. 4. Participated the Three day Workshop on Empowering teachers in mentoring and student counseling organized by School of Behavioural Sciences, M.G. University on 29th, 30th & 31st March 2016. 5. Participated in the one day workshop on NAAC Accreditation Process held at SPAP Auditorium conducted by IQAC of M.G. University on 12th April 2016. 6. Participated in the two day workshop on Curriculum Revision conducted by School of Behavioural Sciences, M.G. University on 28th & 29th April 2016. 7. Presented paper in the National Conference organized by National Institute of Empowerment of Persons with Disabilities, IUCDS and School of Behavioural Sciences on 16-17, September 2015. 8. Attended two days national seminar on relevance of Yoga in modern life organized by centre for yoga and naturopathy M G University on 18-19 March 2016 |

28. Student projects

| | |
|---|--|
| <ul style="list-style-type: none"> Percentages of students who have done in-house projects including inter departmental projects. | <ul style="list-style-type: none"> 10% |
| <ul style="list-style-type: none"> Percentage of students doing projects in collaboration with other universities/industry/institute.: | <ul style="list-style-type: none"> 90% (The research projects are conducted outside the campus. The data are collected from the institutions like special schools, orphanages, destitute homes, jails, juvenile homes, colleges, hospitals, rehabilitation centers, etc.) |

29. Awards/recognitions received at the national and international level by

a) Faculty

| Name of the faculty | Details |
|----------------------|--|
| Dr. Razeena Padmam | Mahila Thilakom award instituted by Govt. of Kerala |
| Dr. P.T Baburaj: | Best poster presentation award in the International Conference on Inclusive Education, Jan 11 & 12, 2012 organized by the Department of social work, Assumption College Changanacherry, Kerala |
| Ms. Rincymol Mathew: | 1. Best poster presentation award in the UGC sponsored National Seminar on Ageing and Society, on 4 & 5 October, 2012 organized by ST. Theresa's College, Ernakulum, Kerala. 2. Best poster presentation award in National Conference on Models of Best Practice in Empowerment of Persons with Disabilities, 16-17, October 2015, jointly organized by the National Institute for Empowerment of Persons with Disabilities, Rehabilitation Council of India, and School of Behavioural Sciences, Mahatma Gandhi University, Kottayam, Kerala |
| Sri. Rajesh E | Public service award awarded by Confederation of Epidemiological Associations, (CEA) India |

b) Doctoral/post-doctoral fellows

| Name of the Doctoral / post-doctoral fellows | Details |
|--|---|
| Dr. Ameer Hassan | Dr. S. Radhakrishnan PDF Fellowship, UGC, New Delhi |

c) Student: Nil



30. Seminars/Conferences/Workshops organized and the source of funding, (national/international) with details of outstanding participants, if any:

| Sl. No | Seminar/Conference/Workshop | Funding agency | Outstanding Participants |
|--------|---|--|--|
| 1 | International Workshop on Building up Research, 11-13, August, 2013. Convenor -Ms. Rincymol Mathew) | M G University | Dr. Jayadevan Sreedharan, Research Division, Gulf Medical University, UAE. Dr. Jayakumari, Gulf Medical University, UAE. |
| 2 | International Conference on Research Methodology and Scientific Writing. 20-22, December, 2013. (Convenor – Mr. Rajesh) | ICMR, Govt. of India DST, Govt. of India | Dr. Padam Simkada, University of Sheffield, UK. Dr. Rama C. Nair, University of Ottawa, Canada Dr. R.J Yadav, Director Grade Scientist, ICMR. |
| 3 | Symposium on Enhancing Quality of Research. 25.6.2015 (Convenor – Dr. P. S.Sukumaran) | M G University | Dr. Beena Mathew Dr. Roshan Bijlee Dr. Subhadra |
| 4 | Workshop on Research Methodology and Statistics. 16-18, September 2016 (Convener - Dr. P. T. Baburaj). Organized through IUCDS. | M G University | Dr. Sarasa Dr. Remani Dr. Shaju Sebastian |
| 5 | Two Weeks Orientation Workshop on Braille (English & Malayalam) for General School Teachers in Collaboration with Regional Centre of National Institute for the Visually handicapped, Chennai. 25.09.2015 to 10.10.2015 (Convenor – Dr. K. M. Mustaffa) | M G University | Dr Srinivasan, Associate Professor, NIVH. Mr. Hari, H M., Govt. School for the Blind, Olassa, Kottayam. |
| 6 | Workshop on Rorschack-Psychological testing. 28-29, September 2015 (Convenor – Dr. Rajeevkumar N.) | M G University | Dr. Sureshkumar M |
| 7 | Workshop on Learning Disability. 15.02.2016 (IUCDS) (Convenor – Dr. P. T. Baburaj) | M G University | Dr. Anilakumar M. C. |
| 8 | Workshop on Cognitive Behaviour Therapy. 22-24, March 2013. (Convenor – Dr. Rajeevkumar N.) | M G University | Dr. Prasanth Kumar Roy |
| 9 | Empowering Teachers in Mentoring and Student Counselling. 29-31, March 2016. (Dr. Rajeevkumar N) | M G University | Dr. Rangaiah Dr. Girish |
| 10 | National Conference on Models of Best Practice in Empowerment of Persons with Disabilities. 16-17, October 2015. (Convenor – Dr. P. T. Baburaj) | National Institute for the Empowerment of Persons with Multiple Disabilities, Chennai. | Dr. Himanshu Das Dr. Rajesh Ramachandran Dr. Jayaraj N. Dr. Neeraja Dr. Dr. K. Balabhaskar Mr. Sankaranarayanan Mr. Nachiketh Rout |

| | | | |
|----|--|--------------------------------|--|
| 11 | National Seminar on Management of Learning Disabilities. 22.03.2011. (Convenor – Mr. Rajesh E.) | M G University | Dr. Sany Varghese Dr. V. V. Joseph |
| 12 | Workshop on Learning Disability. 28-29, June 2016 (Convenor – Dr. P. T. Baburaj) | M G University | Dr. Roshan Bijlee Dr. sethu Madhavan Dr Suresh Kumar M. |
| 13 | Workshop on Curriculum Revision. 28-29 April 2016. (Convenor – Dr. P. S. Sukumaran) | M G University | Dr Elsheba Mathew Dr Sobha Bhat Dr Jayakumar P R Dr Beena Mathew Dr (Sr) Mary Lucita |
| 14 | Workshop on BEd Special education Curriculum Revision On 23.04.2015 (Convener Dr. P. S. Sukumaran) | M G University | Dr (Sr) Glory Sr. Jeesa Grace Fr. Johnson Mathew Sr. Divya Mr. Boby Mathew Mr. Jini Dan |
| 15 | Workshop on M.Ed Special education Curriculum Revision On 24.06.2015 (Convener Dr. P. S. Sukumaran) | M G University | Dr (Sr) Glory Sr. Jeesa Grace Fr. Johnson Mathew Sr. Divya Mr. Boby Mathew Mr. Jini Dan |
| 16 | Seminar on National Trust Act, 1999 and Legal Guardian ship for the parents of individuals with Autism Cerebral palsy mental retardation and multiple disabilities, 15.12.2014(Convener Dr. P. S. Sukumaran) | M G University | Sri.Ajithkumar,IAS Sri.Sureshkumar Sri.P..B.George Sri.Mohandas |
| 17 | Orientation Course in Indian Sign Language, 11 th – 13 th November 2015(Convener Dr. Muhammad Mustaffa) | School of Behavioural Sciences | Mr. Rajeevan, ISL, instructor. Sri.Neil,Mumbai |
| 18 | Refresher Course on Braille 26.8.2015 – 10.09.2015(Convener Dr. Muhammad Mustaffa) | School of Behavioural Sciences | Prof.Sreenivasan, Dr. Sreepriya. |
| 19 | One day Seminar on “Inclusion Matters: Access and Empowerment of People with all Disabilities”. 03.12.2015 (IUCDS). (Convenor – Dr. P. T. Baburaj) | M G University | Mr. Anish Mohan Mr. Mathew Kanamala |

31. Code of ethics for research followed by the departments:

Department has a Doctoral Committee and Department Ethics Committee with members selected from various disciplines including Law, for the conduct of research. In addition to this proper conduct of research work is ensured by the Doctoral Committee of the



Department. Each applicant to the research programme is required to present the synopsis which is evaluated by the Department Doctoral Committee. The committee makes a comprehensive evaluation of the relevance and quality of the work and suggest modifications when necessary. Only the work approved by the Committee is submitted for registration. At the commencement of the work itself, an orientation is given to each scholar regarding the work schedule, biennial presentation of progress report, etc. The Supervising teacher ensures that transparency is observed in data collection, analysis and reporting of the research findings. The Supervising teacher also ensures that plagiarism is avoided and the research work is original. In the written report of the research work it is mandatory to attach all relevant documents regarding the tool, consent from the concerned authorities, data collection tool etc. Before the submission of the final research report the student presents the work before public and any objection or suggestions given by the audience are appropriately addressed in the final draft. The guidelines issued by UGC are strictly followed in the registration, conduct and award of research degree.

32. Student profile programme-wise.

2011-12

| Name of the Programme (refer to question No.4) | Applications received | Selected | | Pass percentage | |
|--|--------------------------|----------|--------|--------------------|--------|
| | | Male | Female | Male | Female |
| M.Sc Disability Studies and Rehabilitation Sciences. | 23 | 05 | 06 | 100 | 100 |
| M.Sc Psychology | 36 | 03 | 04 | 100 | 100 |
| M.Phil Psychology | 26 | 01 | 03 | 100 | 100 |
| M.Phil Special Education and Rehabilitation Sciences | 27 | 0 | 4 | - | 100 |
| M.Phil Behavioural Medicine and Rehabilitation | 19 | 0 | 03 | - | 100 |
| M.Phil Behavioural Sciences and Rehabilitation Nursing. | 12 | 01 | 0 | 100 | 0 |
| Ph.D. | 31 | 02 | 17 | NA | NA |

(2012-13)

| Name of the Programme (refer to question No.4) | Applications received | Selected | | Pass percentage | |
|---|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.Sc Disability Studies and Rehabilitation Sciences. | 26 | 03 | 07 | 100 | 90 |
| M.Sc Psychology | 22 | 0 | 03 | - | 66.66 |
| M.Phil Rehabilitation Psychology | 7 | 01 | 03 | 100 | 100 |
| M.Phil Special Education and Rehabilitation Sciences | 6 | 03 | 01 | 100 | 100 |
| M.Phil Behavioural Medicine and Rehabilitation (PT) | 5 | 0 | 01 | - | 100 |
| M.Phil Behavioural Medicine and Rehabilitation (FT) | | 02 | 0 | 50 | - |
| M.Phil Behavioural Sciences and Rehabilitation Nursing. | 3 | 0 | 02 | 0 | 100 |

(2013-14)

| Name of the Programme (refer to question No.4) | Applications received | Selected | | Pass percentage | |
|---|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.Sc Disability Studies and Rehabilitation Sciences. | 30 | 06 | 03 | 0 | 33.3 |
| M.Sc Psychology | 29 | 03 | 04 | 100 | 100 |
| M.Phil Rehabilitation Psychology | 9 | 01 | 03 | 0 | 66.66 |
| M.Phil Special Education and Rehabilitation Sciences | 9 | 01 | 03 | 100 | 75 |
| M.Phil Behavioural Medicine and Rehabilitation (PT) | 6 | 02 | 02 | 0 | 100 |
| M.Phil Behavioural Medicine and Rehabilitation (FT) | | 01 | 0 | 100 | 0 |
| M.Phil Behavioural Sciences and Rehabilitation Nursing. | 10 | 0 | 04 | 0 | 100 |
| Ph.D. | 26 | 04 | 07 | NA | NA |



(2014-15)

| Name of the Programme (refer to question No.4) | Applications received | Selected | | Pass percentage | |
|---|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| MSc Disability Studies and Rehabilitation Sciences. | 35 | 03 | 02 | NA | NA |
| MSc Psychology | 55 | 0 | 05 | 0 | 100 |
| Ph.D. | 24 | 05 | 05 | NA | NA |

(2015-16)

| Name of the Programme (refer to question No.4) | Applications received | Selected | | Pass percentage | |
|---|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| MSc Disability Studies and Rehabilitation Sciences. | 34 | 01 | 07 | NA | NA |
| M.Sc Psychology | 113 | 0 | 07 | NA | NA |
| M.Phil Rehabilitation Psychology | 07 | 0 | 04 | 100 | 100 |
| M.Phil Special Education and Rehabilitation Sciences | 08 | 01 | 02 | 100 | 50 |
| M.Phil Behavioural Medicine and Rehabilitation (PT) | 05 | 03 | 01 | NA | NA |
| M.Phil Behavioural Medicine and Rehabilitation (FT) | 06 | | 04 | 0 | 75 |
| M.Phil Behavioural Sciences and Rehabilitation Nursing. | 06 | 0 | 04 | 0 | 75 |
| Ph.D. | 16 | 04 | 07 | NA | NA |
| P.G. Diploma in Indian Sign Language | 13 | 05 | 07 | 100 | 100 |



33. Diversity of Students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| P G PROGRAMMES | | | | |
| 2010 | 68 | 32 | - | - |
| 2011 | 84 | 16 | Nil | Nil |
| 2012 | 85 | 15 | - | - |
| 2013 | 62 | 38 | - | - |
| 2014 | 43 | 43 | - | 14 |
| 2015 | 42 | 58 | - | - |
| 2016 | - | 94 | - | 6 |
| M. Phil PROGRAMMES | | | | |
| 2010 | 40 | 27 | 27 | 6 |
| 2011 | 69 | 23 | 8 | - |
| 2012 | 69 | 8 | 23 | - |
| 2013 | 52 | 24 | 24 | - |
| 2014 | - | - | - | - |
| 2015 | 58 | 42 | - | - |
| 2016 | 42 | 50 | 8 | - |
| Ph.D PROGRAMMES | | | | |
| 2010 | - | - | - | - |
| 2011 | 30 | 30 | 40 | - |
| 2012 | 43 | 29 | 14 | 14 |
| 2013 | 36 | 28 | 36 | - |
| 2014 | - | - | - | - |
| 2015 | 100 | - | - | - |
| 2016 | 92 | 8 | - | - |



- 34. How many students have cleared Civil Services and Defense Services examination, NET,SET, GATE and other competitive examinations? Give details category-wise–list of students passed:**

(2010-16)

| Sl.No | Year | NET/ JRF Qualified | GATE | SET | Others |
|-------|---------|--------------------|------|-----|--------|
| 1. | 2010-11 | - | - | - | - |
| 2. | 2011-12 | 3 | - | - | - |
| 3. | 2012-13 | 7 | - | - | - |
| 4. | 2013-14 | 7 | - | - | - |
| 5. | 2014-15 | 2 | - | - | - |
| 6. | 2015-16 | - | - | - | - |
| 7. | Total | 19 | | | |

- 35. Student progression:**

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | 25 |
| PG to Ph.D. | 10 |
| Ph.D. to Post- Doctoral | 100 |
| Employed | |
| • Campus selection | 80 |
| • Other than campus recruitment | 80 |
| Entrepreneurs | 1 |

- 36. Diversity of Staff:**

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | 17% |
| From other universities within the state | 66% |
| From universities from other State from | 17% |
| Universities outside the country | 0% |

37. Number of faculty who were awarded M.Phil; Ph.D, D.Sc and D.Litt. during the assessment period: 2

| Name of the Faculty | Degree awarded | Details |
|-----------------------|----------------|--|
| Dr. Muhammad Mustaffa | Ph. D | Vinayaka Mission University, Tamilnadu |
| Dr.P. T. Baburaj | Ph. D | University of Calicut |

38. Present details of departmental infrastructural facilities with regard to

| | | |
|---|--|---|
| 1 | Library | Available, 3347 books available (cost:Rs.3203410) |
| 2 | Internet facilities for staff and students | Available |
| 3 | Total number of class rooms | 7 |
| 4 | Class rooms with ICT facility | 4 |
| 5 | Students' laboratories | 2 Psychology lab, Audiology lab |
| 6 | Research laboratories | Nil |

39. List of doctoral, post- doctoral students and Research Associates

a) From the host institution/university

Doctoral: 26

| Guide | Name |
|--|--|
| Dr. M.S Razeena Padmam, (Rtd.) Director & Professor in Psychology. (Ph.9447040976) | 1. Dr.Roshan Bijlee K.N 2. Ms. Sreeja S |



| | |
|--|---|
| Dr. P.S Sukumaran, (Professor& Director) in Special Education (Ph.9495684883) | 3. Ms. Sandhya Govindan 4. Manoj R 5. Aby Daniel A 6. Jayani. A 7. Ambady K.G. 8. Dr.Jayakumar P.R |
| Dr. N Rajeevkumar, Associate Professor in Psychology | 9. Ms. Divya Rose Peter 10. Boban Eranimos |
| Dr.Baburaj P.T, Senior Lecturer. (Ph.9495213248) | 11. Ms. Anitha M Thomas 12. Ms. Nisha T.S 13. Ms. Daisy Philip 14. Ms. Priyachandra K 15. Ms. Chothisha K.S 16. Ms. Sulekha A.T 17. Dr. Sunilkumar B.S 18. Jismy Joseph 19. Anjaly K.S 20. Geethakrishnan P.K. |
| Dr. Muhammad Mustaffa, Assistant Professor.(Ph.9946226638) | 21. Mr. Rajesh E 22. Mr. Jibin George 23. Ms. Gayathridevi 24. Mrs. Ambika E.T 25. Manju P. Emmanuel |
| Dr.Elsheba Mathew, (Rtd Lecturer) (Ph.9495063619) | 26. Girija S |

b) From other institutions/universities,

Doctoral: 40

| Guide | Name |
|--|------------------------------|
| Dr. M.S RazeenaPadmam | 1. Dr. Ganga G Kaimal |
| Dr. P.S Sukumaran, (Professor& Director) in Special Education (Ph.9495684883) | 2. Rohini U. K. Nair |



| | |
|--|---|
| Dr. N Rajeev Kumar, Associate Professor in Psychology (Ph.9995041288) | 3. Ms. Rakhi Manjooran 4. Ms. Rajani G 5. Ms. Shazia Noorin Bin Zyed Musthafa 6. Dr. Harihara Iyer 7. Dr. Smitha R Menon 8. Ms. Mini Paul 9. Deepa Merin Kuriakose |
| Dr.Baburaj P.T, Senior Lecturer. (Ph.9495213248) | 10. Ms. Shibu Puthenparambil 11. Sindhumol N.T |
| Dr. Muhammad Mustaffa, Assistant Professor.(Ph.9946226638) | 12. Mr. Paul James 13. Sini James |
| Dr.M.K.Mathew, Associate Professor(Ph.9447112718) | 14. Mr. Soney Thomas 15. Ms. Chinchu Rani Vincent 16. Mr. Johnson Joseph 17. Ms. Sajitha S 18. Mr. Suvrad 19. Ms. Hema 20. Ms. Rincymol Mathew |
| Dr.Agassa K.S (Sr. Mary Lucita) (Ph.9847347445) | 21. Mr. Sibin M.B 22. Ms. Haseena T.K 23. Ms. Sherlymol Antony 24. Ms. Yamuna Jose 25. Ms. Simmy M Varkey 26. Ms. Anu George Varghese 27. Ms. Omana M.P 28. Dr. Remani 29. Dr. Sarasa 30. Mrs. Reethamma N.T |
| Dr.Jayan, Professor (Ph.9446405056) | 31. Ms. Nandini M 32. Ms. Suja Mathew 33. Mr. Vipin V. Roldant 34. Ms. Ranjini P.R 35. Ms. Vineetha 36. Ms. Sherly Alex 37. Ms. Shimmy V.S |
| Dr.Elsheba Mathew, (Rtd Lecturer) (Ph.9495063619) | 38. Ms. Mercy Jacob 39. Ms. Nirmal Jose 40. Ms. Tessy Grace Mathew |



• **Post-doctoral-1**

| Guide | Name |
|---|------------------|
| Dr. N Rajeev kumar, Associate Professor in Psychology | Dr. Ameer Hassan |

40. Number of post graduate students getting financial assistance from the university:

Period 2010-2016

| Fellowship | 2010-11 Number | 2011-12 Number | 2012-13 Number | 2013-14 Number | 2014-15 Number | 2015-16 Number |
|------------|----------------|----------------|----------------|----------------|----------------|----------------|
| E grants | 19 | 22 | 20 | 20 | 15 | 11 |

41. Was any need assessment exercise undertaken before the development of new programme(s):

If so, highlight the methodology: Yes. Review of available literature, informal and formal discussions with various stakeholders, analysis of the collected information in the department faculty council are done before an academic programme is proposed. The aim and objectives of the course is submitted with the proposed syllabus for approval by academic and administrative sanction.

42. Does the department obtain feedback from

| | |
|---|---|
| a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. The criticism and suggestions of each faculty with regard to each of the academic programme is presented and discussed in the Department Faculty Council. The recommendations of the faculty council are submitted to the Board of Studies for appropriate actions when necessary. |
| b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes, The feedback received from the students are compiled and discussed in the meeting of Department Faculty Council. |
| c. Alumni and employers on the programmes offered and how does the department utilize the feedback? | Yes, The feedback obtained from the the alumni and employers are presented and discussed in the Department Faculty Council. The suggestions are incorporated in the curriculum when possible with the approval of faculty council .The recommendations of the faculty council are submitted to the Board of Studies for appropriate actions when necessary. |

43. List the distinguished alumni of the department (Maximum 10):

| Sl No. | Name | Current Position |
|--------|----------------------|---|
| 1. | Dr. Babu George | Director, Child Development Centre, Thiruvananthapuram |
| 2. | Dr.Elsheba Mathew | Associate Professor, Pushpagiri Medical college, Thiruvalla |
| 3. | Sr.Gilbert | Secretary, Trained Nurses Association of India, |
| 4. | Dr.Roshan Bijlee | Director, Composite Regional Centre, National Institute of Empowerment of Persons with Multiple Disabilities, Kozhikode |
| 5. | Dr. Sr. Glory | Principal, Nirmala Sadan College of Special Education, Muvattupuzha. |
| 6. | Dr. T. U. Sukumaran | Professor, Pushpagiri Medical college, Thiruvalla |
| 7. | Dr. Savida, | Superintendent, Institute of Child Health, Govt. Medical College, Kottayam. |
| 8. | Dr. Valsamma Joseph | Principal, Govt. College of Nursing, Kottayam |
| 9. | Dr. Sreedevi T. R | Associate Professor, Govt. College of Nursing, Kottayam |
| 10. | Dr. Kumari S. Girija | Principal, NSS Training College, Changanacherry |

44. Give details of student enrichment programmes (Special lectures/workshops/seminar):

Involving External Experts classes and seminars are organised regularly. Remedial classes for students who require individual attention are arranged, every day 2 hours are allotted for tutorials. Debates are organised on relevant issues like gender equality, Rights of women etc. Special lectures by eminent persons in the field were organized. Two such lectures are listed below

1. Special lecture on 2nd January 2012 by Pavan J Antony, Assistant Professor, Adalphi University, U.S.A on the theme International issue, laws and policies in Special Education.
2. Special lecture on Project identification by Sri. George Joseph Julian, Senior consultant, SWASTI, Bangalore on 15/03/2013

45. List the teaching methods adopted by the faculty for different programmes.

Lecture, discussion, demonstration, role play, simulation, field visit, and seminars are used for all academic programmes. Flipped class room ,use of open source software like Edmodo also are employed to make learning more learner friendly and effective. The



students are sent to the respective clinical area for internship where they will get maximum practical experience to reinforce their theoretical knowledge and to develop required skill.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Feedback is taken from staff and students. Staff and students meet bimonthly to discuss common academic matters. Faculty council meetings are conducted regularly and at request when relevant issues are to be addressed.

47. Highlight the participation of students and faculty in extension activities.

All national and relevant International days are observed organizing special lectures, seminars, poster exhibitions etc.

The various curricular co curricular and extracurricular activities of School focus on extending the services to the community and learning with active involvement in community development. The faculty and students are engaged in disseminating knowledge regarding health promotion, disability prevention, identification and management in the community through the organization of seminars, conduct of invited lectures ,organization of sensitization programmes in the nearby educational institutions, hospitals. etc. A list of such activities is given below.

| | |
|---------|---|
| 2011-12 | <ol style="list-style-type: none"> 1. Observed world human rights day on organising seminar and debate on the theme Human rights in a democratic society (10/12/2015) 2. Observed white cane day and organised an experience sharing session with teachers of blind school on 15/10/2013 3. Conducted a field visit to Navajeevan Charitable Trust, A voluntary organisation working for the rehabilitation on National Mental Health Day on 10/10/2015 4. Organised poster exhibition in the Neighbouring school on drug addiction on 26/06/2013 5. Conducted an exhibition on assessment of disabilities and rehabilitation of differently abled in connection with the bookfare INBOFA organised by University Main Library (2012) |
| 2012-13 | <ol style="list-style-type: none"> 1. Exhibition on Disabilities and Rehabilitation on 03.12.2012 2. Observed the World Deaf day, and organized a screening camp for hearing impairment and distributed hearing aids free of cost to eligible children with support of NISH, Trivandrum on September 2012. 3. One day national conference on “Inclusive Education on 26.3.2013 4. One day Seminar on class room management of students with learning disabilities. |

| | |
|---------|--|
| 2013-14 | <ol style="list-style-type: none"> 1. Organized Seminar on Psychosocial and Legal Aspects of Women Harassment, School of Behavioural Sciences (31.1.2013) for the public 2. One day seminar on autism on 2.4.2013 3. Organised poster exhibition cum seminar on hypertension on 29.9.2013 |
| 2014-15 | <ol style="list-style-type: none"> 1. Organized Quiz and essay writing competition on vector borne diseases on 7.3.2015 2. Conducted Symposia on AIDS on 1.12.2014 3. Conducted poster exhibitions and role play on control of communicable diseases. 4. Explained and demonstrated hand washing techniques to the inmates and employees of the university crèche. 5. Observed ear care day on 03/03/2015 6. Organised seminar on Physical fitness on 10/03/2015 7. Observed world health day on 7/4/2014 8. Organised seminar on Dementia on 21/09/2015 9. Organised a seminar on technology adaptation for physically disabled persons on 03/12/2014 |
| 2015-16 | <ol style="list-style-type: none"> 1. Demonstration and role play on World Health Day. 07.04.2015 2. Symposium on World Environment Day. Jointly organized with the Campus Unit of NSS. 05.06.2015. 3. Symposium on Enhancing Quality of Research. 25. 06.2015. 4. Poster Exhibition and Quiz competition on 01.07.2015 observing World Autism Day. 5. Symposium on Behaviour Therapy for Children with Mental Retardation. 15.07.2015. 6. Symposium on Transactional Analysis. 22.07.2015. 7. Symposium on Stress Management. 29.07.2015. 8. Seminar, Multimedia Exhibition and Book Display on 'A P J Abdul Kalam, the Legend'. 6 - 7, August, 2015. 9. Symposium on Introduction to Indian Sign Language. 05.08.2015. 10. Orientation Workshop on Braille – English and Malayalam to General School Teachers. 11. Organized in Collaboration with Regional Centre of the National Institute for the Visually Handicapped, Chennai. 25.09.2015 to 10.10.2015 12. Workshop on Rorschach. 28 – 29, September, 2015. 13. Observation of International Deaf day. 29.09.2015. 14. Symposium on Indian Classical Dance – Effect on Mind and Body. 07.10.2015. 15. Poster Exhibition in connection with Observation of World Mental Health Day. 10.10.2015. 16. Seminar on Trends and Developments in Sign Language Interpretation on 10.11.2015. |



| | |
|--|--|
| | <ol style="list-style-type: none"> 17. Orientation on Indian Sign Language to Teachers. 12 – 14, November, 2015. 18. Organization of Essay Competition and Seminar on 19.11.2015 in connection with National Integration Day. 19. Observation of Indian Constitutional Day. 26.11.2015. 20. Organization of World AIDS Day on 01.12.2015 21. One day Seminar on “Inclusion Matters: Access and Empowerment of People with all Disabilities”. 03.12.2015 (IUCDS). 22. Identification and Assessment of Learning Problems. Jointly organized with Department of Life Long Learning and Extension.05.12.2015. 23. Conduct of Seminar for the general public on 13.12.2015 observing World Disability Day 24. Invited Lecture on Rights of the Disadvantaged, by Mrs. Jasmin Alex, Assistant Professor, School of Indian Legal Thought, in connection with Observation of World Human Rights Day. Jointly organized with Campus Unit of NSS.10.12.2015. 25. One Day Workshop on Learning Disability. 15.02.2016 (IUCDS). 26. Commemoration of World Zero Discrimination Day. 01.03.2016 (IUCDS). 27. Two day’s Workshop on Learning Disability. 28 -29, June, 2016 (IUCDS). 28. Organised a series extension activities in the community to promote awareness regarding disability and rehabilitation under the programme JOTHIRGAMAYA. 29. Organised and conducted medical camps to facilitate early identification of developmental disabilities under the scheme PRATHEEKSHA 30. Organised and conducted a series of training programmes for ASHA workers, and parents to enhance skill in rehabilitation of persons with disabilities under the project NAIPUNYA. 31. The School of Behavioural Sciences has a counselling centre and vocational rehabilitation centre for adult mentally charged the services of which is extended to the community absolutely free of cost. |
|--|--|

48. Give details of “beyond syllabus scholarly activities” of the department.

The students are given opportunity to visit institutions working in the area of disability rehabilitation. Opportunity is given to interact with experts in the field, postdoctoral fellows of other department and faculty from other universities working in the campus on full bright and other academic schemes, persons who excel in life irrespective of disability, pioneers working in the field of disability etc. Two such activities are given below.

- Convened International level Special lecture on 2nd January 2012 by Pavan J Antony, Assistant Professor, Adalphi University, U.S.A on the theme (1) International issue, laws and policies in Special Education.(2)Transition issues and children with disabilities.(Convener: Mr.Rajesh.E, Assistant Professor).
- Convened International level special lecture on 9th January 2012 by Anne M Mungai, Associate Professor, Adalphi University, U.S.A on the theme Multi- cultural Education and comparative education(Convener: Mr.Rajesh.E, Assistant Professor).

49. State whether the programme/department is accredited/ graded by other agencies? If yes, give details. :

The School has Post Graduate Diploma in Indian Sign Language, which is accredited by the Rehabilitation Council of India, New Delhi

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

A number of research studies are undertaken leading to generation and dissemination of new knowledge in the field of Special education, Rehabilitation and Mental Health.

1. The School has developed many evaluation/assessment tools in the areas of Mental Health, Disabilities and Special education. Selected few are given below:
2. Scale for attitude towards education, 2013
3. Parent involvement in Children's education scale – Parent version, 2013
4. Parent involvement in Children's education scale – Child version, 2013
5. Child rearing practice scale, 2013
6. Quality of life scale of adolescents with mental retardation, 2015
7. Satisfaction inventory for special teachers, 2015
8. Problem inventory for special teachers, 2015
9. Reinforcement related problem inventory for special teachers, 2015
10. Parental expectation questionnaire, 2015
11. Functional ability scale for adults with intellectual disability, 2016
12. Problem assessment scale for adults with intellectual disability, 2016
13. Parental expectation scale, 2016
14. Diagnostic tool for Autism, 2016

The research work is published in journals for dissemination of knowledge. The relevant findings are presented in the Board of Studies meeting of Special Education, education and Behavioural Sciences for necessary action.



51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

- Multidisciplinary subjects, faculty and students.
- Adequate infrastructural facilities with Wi-Fi connectivity, library, ramps and spacious auditorium.
- Community extension activities and community oriented research activities.
- Qualified and devoted staff, good participation of students in various activities etc .
- Education, training, research and extension in the area of disability detection, prevention and rehabilitation which is emerging area of national concern.

Weaknesses:

- Failure to place successful students in government jobs, as disability rehabilitation till now is not recognized as a prerequisite for any job in government sector.
- Inadequate opportunities for the students to work in colleges or universities, as disability studies is not included as a subject of study in colleges and universities.
- Shortage of model special schools and rehabilitation centers within the university campus to supplement /reinforce practical training.
- Difficulty to get research students with UGC JRF or similar fellowships, as most of the subject areas offered by the School do not come under the tests conducted by UGC or similar agencies.
- The functioning of the academic activities, Vocational Rehabilitation Centre and Counselling Centre are affected due to shortage of teaching and supporting staff .

Opportunities:

- Opportunity to collaborate with non- governmental organizations in the field of disability rehabilitation.
- Opportunity to strengthen the referral unit of psychological testing guidance and counselling services to reach the public effectively.
- Opportunity to facilitate interdisciplinary research work of a big magnitude as the alumni and students are from Modern Medicine, Ayurveda, Homoeo, Nursing, Special education, Rehabilitation Psychology, Clinical Psychology, Social work, General Education, and Physiotherapy.
- Ample opportunity to coordinate team work and joint effort in disability prevention and rehabilitation as the school is the only institution in India which offer M Phil and Ph D level programme in –Special Education and Rehabilitation Sciences, Rehabilitation Psychology, Behavioural Medicine and Rehabilitation, and Behavioural Sciences and Rehabilitation Nursing.
- The school gives ample opportunity as leader in the Faculty of Behavioural Sciences to encourage various institutions to start Teacher education programmes in the field of Special Education.

Challenges:

- To get RCI recognition for all the academic programmes.
- To develop job opportunities for the students.
- To develop literature in the field of disability rehabilitation, special education, and mental health in the regional language.
- Integration of the special education concept in the general education and administration policy is required to attract committed and qualified students to the programme.
- Awareness programmes need to be planned, implemented and supported by the governmental and non-governmental agencies to make people more sensitive towards the problem of disability and facilities available for preventing and rehabilitating differently abled people.

52. Future plans of the department.

1. Strengthen the rehabilitation activities of the present vocational rehabilitation centre.
2. Extend rehabilitation services to persons with autism, loco motor disability, visual impairment, and hearing impairment.
3. Extend rehabilitation services to chronic and terminally ill in the community collaborating with various governmental and nongovernmental agencies.
4. Adopt a panchayat to initiate 'disabled friendly movement' and facilitate rehabilitation.
5. To further develop as a nodal centre in identification, prevention and management of mental health problems among children of different age groups and to expand the services to schools and colleges.
6. Publish literature in regional language regarding prevention of disability and rehabilitation of differently abled.
7. Translate and publish educational materials in the area of mental health and disability.
8. Start M. Ed in special education.
9. Offer short term courses in the area of mental health and disability, learning disabilities, Sign language, developmental disabilities etc.
10. Offer training programme in Inclusive Education for students in Teacher Training Institutions.
11. Establish academic and research collaboration with more national and International institutions.



SCHOOL OF BIOSCIENCES

| 1. | Name of the Department | : | School of Biosciences | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|--------|---|--|------------|--------|------------------------------|-----------|---|---|---|----------------------|---|---|---|------------------|---|---|---|---------------------------------------|---|--|---|---------------|--|--|---|
| 2. | Year of establishment | : | 1983 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | School coming under the Faculty of Science | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | M.Sc. Microbiology M.Sc. Biochemistry M.Sc. Biotechnology M.Sc. Biophysics M. Phil. Biosciences Ph.D. Microbiology Ph.D. Biochemistry Ph.D. Biotechnology Ph.D. Physiology | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | The programmes in Biosciences are interdisciplinary nature. The School of Biosciences interacts with different Schools and Centres such as School of Environmental Sciences, School of Chemical Sciences and International and Inter University Nanoscience and Nanotechnology. Additionally the students of Biosciences are given ample opportunity to take open courses of other schools and centres of the university. | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Students of fourth semester PG programme and second semester M Phil programme regularly undertake four months project work (One course in the curriculum) in other institutes. Students from other institutes and colleges undertake their project work at School of Biosciences on a regular basis. | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | Semester (Choice Based Credit System) | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | The students of other schools take Open Courses offered by the School of Biosciences. The faculty and students of this School participate in the invited lectures conducted as part of courses being offered by other schools and centres. | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/ Asst. Professors/others) | | <table> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual (including CAS & MPS)</th></tr> <tr> <td>Professor</td><td>1</td><td>1</td><td>5</td></tr> <tr> <td>Associate Professors</td><td>3</td><td>3</td><td>2</td></tr> <tr> <td>Asst. Professors</td><td>9</td><td>9</td><td>6</td></tr> <tr> <td>Others DBT Supported Contract Faculty</td><td>3</td><td></td><td>3</td></tr> <tr> <td>Guest Faculty</td><td></td><td></td><td>1</td></tr> </table> | | Sanctioned | Filled | Actual (including CAS & MPS) | Professor | 1 | 1 | 5 | Associate Professors | 3 | 3 | 2 | Asst. Professors | 9 | 9 | 6 | Others DBT Supported Contract Faculty | 3 | | 3 | Guest Faculty | | | 1 |
| | Sanctioned | Filled | Actual (including CAS & MPS) | | | | | | | | | | | | | | | | | | | | | | | | |
| Professor | 1 | 1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | 3 | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | 9 | 9 | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| Others DBT Supported Contract Faculty | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Guest Faculty | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. Students guided for the last 6 years |
|-----------------------|---------------|------------------------|-------------------------|----------------------------|---|
| Dr.Latha M.S. | M.Sc., Ph.D | Professor | Biochemistry | 30 Years | M.Phil – 5 Ph.D. awarded- 8 Ph.D. submitted- 2 Ph.D.on-going- 6 |
| Dr.Keerthi TR | M.Sc., Ph.D. | Professor and Director | Biotechnology | 17 Years | M.Phil. – 5 Ph.D. awarded- 4 Ph.D.on-going- 7 |
| Dr.Jyothis Mathew | M.Sc., Ph.D. | Professor | Microbiology | 25 Years | M.Phil. – 6 Ph.D. awarded- 6 Ph.D.on-going- 8 |
| Dr.J.G.Ray | M.Sc., Ph.D. | Professor | Ecology & Ecotechnology | 30 Years | M.Phil. – 1 Ph.D. awarded- 2 Ph.D.on-going- 8 |
| Dr.Jisha MS | M.Sc., Ph.D. | Professor | Microbiology | 17 years | M.Phil. – 5 Ph.D. awarded- 7 Ph.D. submitted- 3 Ph.D.on-going- 6 |
| Dr.Jayachandran K | M.Sc., Ph.D. | Associate Professor | Biotechnology | 18 Years | M.Phil. – 4 Ph.D. awarded- 6 Ph.D.on-going- 8 |
| Dr.Prakash Kumar B | M.Sc., Ph.D. | Associate Professor | Biochemistry | 21 Years | M.Phil. – 2 Ph.D. awarded- 1 Ph.D.on-going- 9 |
| Dr. Linu Mathew | M.Sc., Ph.D. | Assistant Professor | Biotechnology | 15 Years | M.Phil. – 5 Ph.D. awarded- 1 Ph.D. submitted- 3 Ph.D.on-going- 6 |
| Dr.Harikumaran Nair R | M.Sc., Ph.D. | Assistant Professor | Physiology | 10 Years | M.Phil. – 4 Ph.D. awarded- 3 Ph.D. submitted- 1 Ph.D.on-going- 4 |
| Dr.Anie Y | M.Sc., Ph.D. | Assistant Professor | Biochemistry | 9 Years | M.Phil. – 4 Ph.D.on-going- 5 |
| Dr.Resmi SS | M.Sc., Ph.D. | Assistant Professor | Biophysics | 10 Years | |
| Dr. EK Radhakrishnan | M.Sc., Ph.D. | Assistant Professor | Microbiology | 6 Years | M.Phil. – 8 Ph.D. submitted- 5 Ph.D.on-going- 6 |



12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| Sl.No | Name | Visiting Fellows/ Adjunct faculty/ Emeritus professors | Specialization |
|-------|--|---|-----------------------|
| 1. | Prof. F.B. Lewu, CPUT, South Africa | Visiting Fellow | Agricultural Sciences |
| 2. | Prof. S O Oluwafemi, University of Johannesburg, South Africa | Visiting fellow | Chemistry |
| 3. | Dr. K. Sunder Rajan, MEDICITY | Visiting fellow | Medical Sciences |
| 4. | Dr. U. Chandramohan Nair, President, Indian Veterinary Association, Kerala | Visiting fellow | Veterinary Sciences |
| 5. | Uma Sankar, Asst.Professor, Department of Anatomy and Cellbiology. Indiana University School of Medicine, USA | Visiting fellow | Molecular Biology |
| 6. | Keith Davis Director The Johnson centre for Entrepreneurship in Biotechnology Indiana University, Bloomington, USA | Visiting fellow | Biotechnology |
| 7. | Dr. Jacob Varghese Biboy Research Associate Centre for Bacterial Cell Biology Institute of Cell and Molecular Biosciences, Medical school, Newcastle University, NE2 4AX. United Kingdom | Visiting fellow | Microbiology |
| 8. | Dr. Maneesh Milankot Associate Professor Pushpagiri Institute of Medical Sciences Thiruvalla | Adjunct faculty | Medical Sciences |
| 9. | Dr. Shaju Thomas Associate Professor Dept. of Zoology Nirmala College Muvattupuzha | Adjunct faculty | Zoology |
| 10. | Dr. Sreelatha .R. Nair Lifeline Hospital Adoor | Visiting fellow | Clinical Geneticist |
| 11. | Dr. C.K.K. Nair Dean & Principal Scientist Pushpagiri Institute of Medical Sciences Thiruvalla | Adjunct faculty | Nanoscience |
| 12. | Dr. Dinendra Raychaudhari Professor, Department of Zoology, Calcutta University Calcutta | Adjunct faculty | Zoology |



| | | | |
|-----|---|-----------------|---------------------|
| 13. | Dr. Manoj Kurian Jacob Scientist A Rubber Research Institute of India Puthuppally Kottayam | Adjunct faculty | Plant Sciences |
| 14. | Dr. T. Saha Senior Scientist Rubber Research Institute of India Puthuppally, Kottayam | Adjunct faculty | Plant Sciences |
| 15. | Dr. James Jacob Director Rubber Research Institute of India Puthuppally, Kottayam | Adjunct faculty | Plant Sciences |
| 16. | Dr. Kuruvilla Jacob Director (Training) Rubber Research Institute of India Puthuppally, Kottayam | Adjunct faculty | Training |
| 17. | Dr. Kavitha K. Mydin Joint Director (Crop Improvement) Rubber Research Institute of India Puthuppally, Kottayam | Adjunct faculty | Plant sciences/Crop |
| 18. | Dr. Shaji Philip Molecular Plant Pathology Division Rubber Research Institute of India Puthuppally, Kottayam | Adjunct faculty | Plant pathology |
| 19. | Prof.K.J.Jaims T.A.Pai Institute of Management Manipal | Adjunct faculty | Management sciences |
| 20. | Dr. Grace Thomas Asst. Professor Dept. of Chemistry Sacred Heart College Thevara Ernakulam | Adjunct faculty | Chemistry |
| 21. | Dr. Achuth Shankar Professor of Bioinformatics University of Kerala Thiruvananthapuram | Adjunct faculty | Bioinformatics |
| 22. | Dr. Asha .S.Nair Senior E II Cancer Biology Division RGCB Thiruvananthapuram | Adjunct faculty | Cancer Biology |
| 23. | Dr. P.N.Krishnan Senior Scientist & Head of Division of Biotechnology & Bioinformatics JNTBGRI Pacha P.O., Palode Thiruvananthapuram | Adjunct faculty | Biotechnology |



| | | | |
|-----|---|--------------------|-------------------------------|
| 24. | Dr. Balarama Kaimal Scientist Pushpagiri Institute of Medical Sciences Thiruvalla | Adjunct faculty | Medical Sciences |
| 25. | Dr. Byju G Principal Scientist CTCRI | Adjunct faculty | Plant Sciences |
| 26. | Sri. M.C.Jose Associate Professor Dept. of Statistics S.B. College Changanassery | Adjunct faculty | Statistics |
| 27. | Dr Sudarslal S Associate Professor, School of Biotechnology Amritha Viswa Vidypeethom Amrithapuri Campus, Clappana PO, Kollam – 690525 | Adjunct faculty | Biotechnology |
| 28. | Dr. E.P.Yasodharan Professor (Emeritus) School of Environment Sciences Cochin University of Science & Technology Kalamassery | Emeritus Professor | Environment Sciences |
| 29. | Dr. Pious Thomas Principal Scientist Division of Biotechnology Indian Institute of Horticultural Research Bangalore | Visiting fellow | Agricultural Biotechnology |
| 30. | Dr. K. Narayanan Nair Principal Senior Scientist CSIR-NBRI Lucknow | Visiting fellow | Neurobiology |

13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programme | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------|------|------|------|------|------|------|
| M.Sc | -- | -- | 7% | 7% | 7% | 7% |

Contract basis-5%

DBT MSUB Assistant Professor (5year period 2011-2016) 2%



14. Programme-wise Student Teacher Ratio

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| M.Sc. | 6:1 |
| M.Phil. | 1:1 |
| Ph.D. | 7:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 5 | 4 |
| Administrative Staff | 5 | 4 |

| | Sanctioned | Filled | Actual |
|----------------------|--|--|--|
| Technical | 3 | 3 | 3 |
| Laboratory Assistant | 2 | 2 | 1 |
| Laboratory Attender | 3 | 3 | 1 |
| Administrative staff | Administrative Officer-1 Office Assistant-2 Office Attendent-2 | Administrative Officer-1 Office Assistant-1 Office Attendent-2 | Administrative Officer-1 Office Assistant-1 Office Attendent-2 |

16. Research thrust areas as recognized by major funding agencies:

- Ecology and Ecotechnology
- Toxicology
- Ethnopharmacology
- Medicinal plant Research
- Biochemistry
- Physiological Biochemistry
- Biophysics
- Medical Microbiology
- Bioprocess Technology
- Molecular Microbiology
- Bioprocess Technology
- Probiotics and Bioprospecting of marine microbes
- DNA Barcoding
- Agricultural Microbiology.
- Bioremediation of Xenobiotics
- Nanotechnology



17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) National

| Sl. No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|---------------------------|--|-------------|----------------------|-------------------------|
| 1. | Studies on molecular and chemical basis of plant growth promoting and antiphytopathogenic properties of rhizosphere microorganisms | (2015-2018) | KSCSTE | 25.00 |
| 2. | Identification, isolation and characterization of Acyl Homoserine Lactone-mimic compounds from selected plants | (2015-2017) | KSCSTE | 6.90 |
| 3. | Explorations of honey bee gut microbiota for industrial and therapeutic applications' (SB/EMEQ-137/2013) | 2013-2017 | DST-SERB, New Delhi. | 30.00 |
| 4. | Bioremediation of chlorpyrifos by autochthonous bacterial consortia | 2016-2019 | KSCSTE | 22.94 |
| 5. | Investigating the mechanism behind the protective effect of the anticancer compounds isolated from <i>Woodfordia fruticosa</i> Kurz. Flowers against hepatocellular carcinoma. | 2016-2019 | KSCSTE | 22.00 |
| Completed Projects | | | | |
| | Dr Linu Mathew (Principal Investigator) | | | |
| 1. | Barcoding and genetic diversity analysis of <i>Clarias</i> spp of Kerala | (2012-2015) | KSCSTE, | 14.7 |
| 2. | Production of phytoecdysteroids from the callus cultures of <i>Achyranthes aspera</i> | (2012-2015) | UGC | 12.6 |
| | Dr.Jayachandran.K (Principal Investigator) | | | |
| 3. | Safety Evaluation of the process of Chlorination in drinking water system | (2012-2014) | UGC | 9.6 |



| | | | | |
|-----|--|----------------------------------|---------|-------|
| | with specific reference to Chlorination derived By-products | | | |
| 4. | Acetyl Homoserine Lactone based quorum sensing and its biotechnological applications | (2012-2015) | KSCSTE | 16.5 |
| | Dr. Jyothis Mathew (Principal Investigator) | | | |
| 5. | Studies on immunomodulatory effects of Acacia catechu | (2012-2015) | UGC | 11.1 |
| | Dr.Radhakrishnan E.K (Principal Investigator) | | | |
| 6. | Molecular Exploration of Spice Associated Bacteria for Bioactive metabolites and PKS-NRPS genes Acacia catechu | (2011-2014), | DBT | 15 |
| 7. | Molecular Studies on Biofilm formation in Coagulase Negative Staphylococci | (2011-2014) | ICMR | 22 |
| 8. | Studies on molecular and chemical basis of plant growth promoting and antiphytopathogenic properties of rhizosphere microorganisms | (2015-2018) | KSCSTE, | 25 |
| | Dr.R.Harikumaran Nair (Principal Investigator) | | | |
| 9. | Evaluation of the protective effect of omega-3 fatty acid against arsenic trioxide induced cardiac toxicity in cancer therapy.Funding | (2011-2014), | UGC | 9.48 |
| 10. | Molecular Basis of Sodium Dodecyl Sulphate (SDS) Bioremediation & Bioreactor Designing | 2011-2015 | KSCSTE | 13.5 |
| 11. | Characterization of endophytic diazotrophic bacteria from rice (Oryza sativa) and assessment of their potential biocontrol of rice sheath blight disease | F. No. 41-1169/2012 2011-2015 | UGC | 13.9 |
| | Dr. Keerthi T R (Principal Investigator) | | | |
| 12. | Production, Purification and Characterization of antagonistic principles of Potential Aquaculture probiotics | (2010-2013) | UGC | 10.78 |



| | | | | |
|-----|--|----------------------------|----------|-------|
| 13. | Exploration of honey bee gut microbiota for industrial and therapeutic applications | (SB/EMEQ-137/2013) | DST-SERB | 30.30 |
| | Dr Prakash Kumar B, (Principal Investigator) | | | |
| 14. | In vitro studies on inhibition of eicosanoid metabolism for control of arthritis by extracts of stem of <i>Tinosporacordifolia</i> | BT/PR14926/PBD/17/720/2010 | DBT | 21.17 |
| 15. | Evaluation of methanolic extracts <i>Elephantopus scaber</i> for inhibitors of 5-lipoxygenase (5-LOX) and cyclooxygenase-2 (COX-2) | 015/SRSL/2010/CSTE | KSCSTE | 17.00 |
| | Dr. Anie Y. (Principal Investigator) | | | |
| 16. | Nattokinase- fibrinolytic and antihypertensive enzymes from novel bacterial isolates | 03/YIPB/KBC/2012/CSTE | KSCSTE | 4.73 |
| 17. | Chemotactic response of human Phagocytic cells (Polymorphonuclear leukocytes and monocytes) in tuberculosis patients | 37-599/2009 (SR). | UGC | 1.84 |
| | Dr JG Ray (Principal Investigator) | | | |
| 18. | Endomycorrhizal Studies in <i>Musa</i> Sp of South India | (2012-2015) | UGC | 13.50 |
| 19. | Collection, identification and screening of green algae from bloomed water bodies of Kerala for quality and quantity of lipids | 002/SRS/RCS E-24-2015/CSTE | KCSTE | 27.00 |
| | Dr. Latha M.S (Principal Investigator) | | | |
| 20. | Protective effect of <i>Elephantopus scaber</i> Linn. A traditional medicinal plant on hepatic fibrosis and hepatocellular carcinoma | (2009-2011) | KSCSTE | 10.92 |

b) International: Nil

c) Total grants received : ₹ 377.16 Lakhs



18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

| Sl. No. | Project Title | Funding agencies | Total Fun received in Lakhs (₹) |
|---------|--|--|---------------------------------|
| 1. | DBT builder programme with IIUCNN | DBT | 450.00 |
| 2. | Molecular mechanism of antidiabetic activity of Costus pictus (No. 025/IBRS/KBC/2013 Dated. 11.11.2013) | Kerala Biotechnology Commission- KSCSTE- Industry Partner-Arjuna Natural Extracts. | 19.00 |
| 3. | Health promoting capabilities of potential probiotic strains isolated from infant gut microflora | ICMR (Collaborative with Dr. Sabu Thomas, Scientist E11 as CO- PI, Rajiv Gandhi Centre for Biotechnology) | 25.00 |

b) International collaboration: Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

| Sl. No | Title of the Project | Duration | Funding Agency | Amount in Lakhs (₹) |
|--------|----------------------|-------------|----------------|---------------------|
| 1. | SARD Programme | (2014-2017) | KSCSTE | 22.00 |
| 2. | DST FIST | 1 level | DST | 130.00 |
| 3. | DST-PURSE | 2012-16 | DST | 225.00 |

Total grants received: ₹ 337.00 Lakhs

20. Research facility / centre with

- State recognition: Yes
- National recognition: Yes
- International recognition: No

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil



22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 237 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 88 |
| 4. | Chapters in Books | 18 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 345 |

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Yes
- Citation Index – range / average : 18-1028 / 224
- SNIP : Nil
- SJR : Nil
- Impact Factor – range / average : 1.6
- h-index : 1-16

Citation and H index details

| S.L No | Name of the faculty | Total citations | h- index | i-10 index |
|--------|-----------------------|-----------------|-----------|------------|
| 1. | Dr.Keerthi T.R | 111 | 3 | 2 |
| 2. | Dr.M.S.Latha | 1028 | 16 | 19 |
| 3. | Dr.Jyothis Mathews | 190 | 7 | 6 |
| 4. | Dr.J.G.Ray | 81 | 5 | 4 |
| 5. | Dr.Jisha M.S | 324 | 9 | 9 |
| 6. | Dr.Jayachandran.K | 326 | 9 | 9 |
| 7. | Dr.Prakash Kumar.B | 172 | 7 | 6 |
| 8. | Dr.Linu Mathew | 16 | 2 | 1 |
| 9. | Dr.HarikumaranNair | 183 | 9 | 8 |
| 10. | Dr.Anie Y | 24 | 1 | 1 |
| 11. | Dr.S.S Resmi | 18 | 1 | 1 |
| 12. | Dr.E. K Radhakrishnan | 238 | 8 | 8 |
| | Total | 2691 | 77 | 74 |



23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

| Sl. No. | Name of the faculty | Laboratory/ Research area |
|---------|---------------------|---|
| 1. | Dr.Keerthi.T.R | 1. Dubai-BITS Pilani campus, 4th Annual International Conference on Advances in Biotechnology (BioTech 2014)Dubai, BITS, Pilani Campus 10-11th March 2014. |
| 2. | Dr.Linu Mathew | 1) Molecular phylogeny workshop at IISc Bangalore from August 1-5, 2014 2) DBT sponsored workshop on Molecular biology techniques in Microbiology, CFTRI Mysore 15 days excluding holidays from Sept 2-19, 2014 |
| 3. | Dr.Prakash Kumar B | Hands on training course in “Use of Cell Culture technology for studying Apoptosis and Angiogenesis” held at the Department of Biotechnology, University of Mysore, Manasagangotri, Mysore from 24/1/2011 to 31/1/2011. |
| 4. | Dr.Jisha.M.S | Invited participation with free registration at the 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates |

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other

a) National committees

| Sl.No. | Name of the faculty | Committee |
|--------|---------------------------|--|
| 1. | Dr.J.G.Ray, Professor | <ul style="list-style-type: none"> Member in the UGC Expert Committee in Botany for the award of Major Research Projects to Teachers/Researchers Life Member Indian Society of Environmental Scientists Life Member, Swadeshy Science Movement of India |
| 2. | Dr.Keerthi T.R, Professor | <ul style="list-style-type: none"> Indian Dairy Association (IDA), New Delhi Society for Biotechnology (India) Association of Microbiologist in India (AMI), India Kerala Science Academy. |



| | | |
|----|-------------------------|--|
| 3. | Dr.Jisha.M.S, Professor | <ul style="list-style-type: none"> • Society for Biotechnology (India) • Association of Microbiologist in India (AMI), India • Kerala Science Academy.Member Society for Fisheries Technologist (India) |
| 4. | Dr. E K Radhakrishnan | <ul style="list-style-type: none"> • Member – Association of Microbiologist India, Indian Science Congress Association, |

b) International committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------------|---|
| 1. | Dr.J.G.Ray, Professor | <ul style="list-style-type: none"> • Member American Agronomy Society (ASA), Crop Science Society of America (CSA) and Soil Science Society of America (SSA) • Full Member of the Ukrainian Academy of Ecological Science |
| 2. | Dr.Keerthi T.R, Professor | <ul style="list-style-type: none"> • International Probiotics Association (IPA), Zurich, Switzerland • Asian Federation of Biotechnology (AFOB), Korea |

c) Editorial Boards

| Sl. No. | Name of Faculty | Details |
|---------|-----------------------|--|
| 1. | Dr.J.G. Ray | Member of the Editorial Board of two international Journals: <ul style="list-style-type: none"> ▪ Ecology and Noosphereology ▪ Journal of Soil Science |
| 2. | Dr.Keerthi T.R | <ul style="list-style-type: none"> ▪ Iranian Journal of Biotechnology |
| 3. | Dr. Prakash Kumar B | <ul style="list-style-type: none"> ▪ Journal of Practical Biochemistry and Biophysics |
| 4. | Dr. E.K Radhakrishnan | <ul style="list-style-type: none"> ▪ Journal of Food & Industrial Microbiology ▪ International Journal of Advanced Research and Review |

d) any other

| Sl. No. | Name of the faculty | Committee |
|---------|------------------------------|---|
| 1. | Dr.M.S.Latha, Professor | <ul style="list-style-type: none"> • Dean, Faculty of Science, M.G.University • Member, Board of Studies • Coordinator, P hD course Work |
| 2. | Dr.Jyothis Mathew, Professor | <ul style="list-style-type: none"> • Chairman, Institutional Human Ethics Committee, School of Biosciences, Mahatma Gandhi University, Kottayam • Chairman, Institutional Animal Ethics Committee, School of Biosciences, Mahatma Gandhi University, Kottayam |



| | | |
|----|---------------------------|---|
| | | <ul style="list-style-type: none"> • Member, Board of Studies in Biosciences, Mahatma Gandhi University, Kottayam • Convener, Expert Committee in Microbiology (U.G.) Mahatma Gandhi University, Kottayam • Member, Academic Council, Mahatma Gandhi University, Kottayam • Member Board of Studies (UG) in Zoology, Mahatma Gandhi University, Kottayam • President, Alumni Association, School of Biosciences, Mahatma Gandhi University • Chairman, Board of Studies (UG) in Microbiology Mahatma Gandhi University, Kottayam • Chairman, Board of Studies (PG) in Microbiology Mahatma Gandhi University, Kottayam • Member, Core Committee in Biosciences, Mahatma Gandhi University, Kottayam • Member, Executive committee for Inter University Centre for Biosciences, Kannur University |
| 3. | Dr.J.G.Ray, Professor | <ul style="list-style-type: none"> • Expert in UGC NET Coaching for Postgraduate Students – Bioscience and Environment Science – organized by Mahatma Gandhi University, Sri Sankara University, Kalady • Member, Executive Council, Institute of Intensive Research in Basic Sciences • Convener, Core Committee for Curriculum and Syllabus of Integrated M Sc-Ph D Programme in Plant Science Technology • Chairman, Postgraduate Board of Studies in Botany • Chairman, Postgraduate Board of Studies in Biosciences • Convener, Committee for Credit and Semester System, MG University • Expert Committee Member of SARD project evaluation at KCSTE, Thiruvananthapuram on 12th May 2015 • Judging Committee for Evaluation of Best Paper Presentations, Kerala Environment Science Congress, 6-8 May 2015, Kottayam |
| 4. | Dr.Keerthi T.R, Professor | <ul style="list-style-type: none"> • Member Academic Council-Mahatma Gandhi University • Chairperson, Ph.D Doctoral Committee of Biosciences |



| | | |
|----|-------------------------|---|
| | | <ul style="list-style-type: none"> • Warden, Ladies Hostel, Mahatma Gandhi University. • Member, Anti harassment Cell, Mahatma Gandhi University. • Member Institutional Ethical Committee, Mahatma Gandhi University. • Member,SC/ST monitoring cell Mahatma Gandhi University • Convener expert committee of both B.Sc., and M.Sc.,CSS Biotechnology Programme, Mahatma Gandhi University • Member, Board of Studies, (Microbiology) Calicut University • Member, Board of Studies, (Biosciences), Mahatma Gandhi University. <p>Reviewer-3Biotech,Brazilian Journal of Microbiology</p> |
| 5. | Dr.Jisha.M.S, Professor | <ul style="list-style-type: none"> • Coordinator, National Institute of plant science technology • Member – Board of Studies in Microbiology, Calicut University • Member – Board of Studies in Microbiology, M.G. University • Subject Expert – Board of Studies in Microbiology, SB College, Changanassery • Member, Board of Studies, (Biosciences), Mahatma Gandhi University. • Member, Board of studies Microbiology (PG) Mahatma Gandhi University • Member Board of Studies, (Microbiology PG&UG), Kannur University • Subject Expert Women back to lab programme KSCSTE Thiruvananthapuram • Member Institutional Biosafety Committee, Mahatma Gandhi University • P.T.A Secretary ,School of Biosciences-2014-2016 batch |
| 6. | Dr.Jayachandran K | <ul style="list-style-type: none"> • Member Senate, M.G,University • Honorary Director IUCSSM, M.G,University • Joint Director - Biomedical Research centre till 22-08-2011, UONo.3109/AII (4)/2010/Admn dated 24-06-2010 • Member, in the selection committee for junior lab technician, Spices Board/ • Selection of 3 Lab technicians in Microbiology • Expert in Kerala Science Congress to assess |



| | | |
|-----|-----------------------|--|
| | | <p>the scientific papers in Biotechnology</p> <ul style="list-style-type: none"> • Reviewer of Projects, KSCSTE- reviewer of Back to Lab programme of KSCSTE • Member, Kerala Academy of Sciences • Reviewer of Journals- 3 biotech, Bio resource technology, • Member, Technical Committee, Interuniversity centre for Biomedical Research- Evaluation of the technical features of the Lab instruments • Member Institutional Bioethics committee Evaluation of the research work in connection with the ethical issues |
| 7. | Dr.Prakash Kumar.B | <ul style="list-style-type: none"> • Coordinator, DBT-MSUB Programme • Member, IQAC, M.G.University • Life member Indian Science Congress, Society for Biological Chemists, Kerala Academy of Sciences • Member, Board of studies, M.G University • Reviewer for Journal of Inclusion Phenomena, Nanobiomedicine and Engineering |
| 8. | Dr.Linu Mathew | <ul style="list-style-type: none"> • Member, Expert committee, P.G. and UG , M.G. University • Member, Kerala Academy of Sciences |
| 9. | Dr.Harikumaran Nair | <ul style="list-style-type: none"> • Member secretary, Institutional animal ethics committee • Member secretary, Institutional Human ethics committee • Member, Board of studies, School of Biosciences • Member, Campus developmental committee |
| 10. | Dr.Anie Y | <ul style="list-style-type: none"> • Chairperson, Board of Examiners, III semester M.Sc Biochemistry Examinations, 2011, MG University. • Internal Expert, Institutional Biosafety Committee, School of Biosciences, M G University • Scientist-in –Charge, Animal House, Institutional Animal Ethics Committee School of Biosciences, M G University • Member, Institutional Human Ethics Committee, School of Biosciences, M G University |
| 11. | Dr. E K Radhakrishnan | <ul style="list-style-type: none"> • Kerala Academy of Sciences • Member – Board of Studies in Microbiology, Kerala University • Member – Board of Studies in Microbiology, SB College, Changanassery |



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Each faculty has undergone orientation and refresher courses as per the UGC directions. Faculty generally opt the Academic Staff colleges at Calicut and Kerala Universities for the recharging programmes.

| Sl. No | Name of Faculty | Workshops attended |
|--------|----------------------|---|
| 1 | Dr.E K Radhakrishnan | <ol style="list-style-type: none"> 1. Participated “National Seminar on Life Style and Diseases”19-20, January 2012 organized School of Biosciences, Mahatma Gandhi University, Kottayam, Kerala. 2. Participated “A Short Course on Metagenomics: Role of Next Generation Sequencing and Bioinformatics” 15th Oct to 24th Oct, 2012 organised by Anand Agricultural University, Anand, Gujarat. 3. Participated “National Seminar on Water Resource Management: Present Uses, Status, Conservation and Cooperation “organized by Bishop Moore college, Mavelikara on 20th - 22nd March, 2013 |
| 2 | Dr.Jisha. M.S | <ol style="list-style-type: none"> 1. DST sponsored workshop for young scientists on live cell functional imaging and neurotransmitters receptors functional regulation at CUSAT on March 11-13, 2010. 2. Training on Microbial Gene Manipulations at CPBMB, College of Horticulture on May 3-15,2010 3. Frontiers of Spectroscopy and Microscopy. DST-PURSE sponsored workshop. Mahatma Gandhi University, Inter University Instrumentation Centre (IUIIC). 10th -12th September 2012 4. Biotechnology in industry- achievements, potentials and challenges. Organized by CEPC-NAIP-ICAR project. 18th- 20th Feb. 2013 |
| 3. | Dr.Keerthi. T.R | <ol style="list-style-type: none"> 1. Training cum workshop on molecular docking and drug designing 23-25 March 2015 organized by school of Biosciences ,Mahatma Gandhi University and Bio Discovery Group Life Sciences 2. 2011 February 14-27-NAIP (ICAR-New Delhi) Sponsored training programme on “Molecular Diagnostics and Fingerprinting of Salmonella and pathogenic Vibrios |



| | | |
|--|--------------------|--|
| | | <p>associated with seafood and aquatic environment”. Organized by MFB division of CIFT, Cochin. Kerala.</p> <p>3. Training on Microbial Gene Manipulation (03-05-2010 to 17-05-2-10) at Centre for Plant Biotechnology and Molecular Biology, College of Horticulture, Kerala Agricultural University.</p> |
| | Dr.Prakash Kumar B | <p>1. National level workshop on Molecular Docking and Drug Discovery at School of Biosciences, Mahatma Gandhi University from 23-25 March 2015</p> <p>2. Hands on training course in “Use of Cell Culture technology for studying Apoptosis and Angiogenesis” held at the Department of studies in Biotechnology, University of Mysore, Manasagangotri, Mysore from 24/1/2011 to 31/1/2011.</p> |
| | Dr.Linu Mathew | <p>1. Workshop on Plant DNA barcoding at CMS College, Kottayam, MG University December 2011</p> <p>2. National Seminar on Life style and Diseases at School of Biosciences, M G University 2012</p> <p>3. Molecular phylogeny workshop at IISc Bangalore from August 1-5, 2014</p> <p>4. DBT sponsored workshop on Molecular biology techniques in Microbiology, CFTRI Mysore 15 days excluding holidays from Sept 2-19, 2014</p> <p>5. Workshop on plate tectonics: recent advances from Southern India and East Antarctica Geology Department, University Of Kerala.</p> <p>6. National workshop on Mass Spectroscopy at Interuniversity Centre for instrumentation , Mahatma Gandhi University, Kerala</p> <p>7. Training cum Workshop on Molecular docking and drug designing at School of Biosciences, M G University</p> |

28. Student projects

| | |
|---|-----|
| Percentage of students who have done in-house projects including inter-departmental projects | 94% |
| Percentage of students doing projects in collaboration with other universities / industry / institute | 6% |



29. Awards / recognitions received at the national and international level by

- Faculty :**

| Name of the faculty | Details |
|-----------------------|---|
| Dr.E. K Radhakrishnan | Honored presentation of “Bharat Gaurav Award” by India International Friendship Society, May 2016 |

- Doctoral / Post-doctoral fellows:**

| Name of the Doctoral / post-doctoral fellows | Details |
|--|---|
| Rohini Sabu | Young scientist award for the best paper in the National seminar on Diversity of Microbes and Climate Change mitigation held during 3 rd -5 th February 2016 organized by Catholicate College, Pathanamthitta. |
| Jimtha John C | Best paper award in UGC Sponsered National seminar on progress and prospects of Biotechnology, at St. Josephs College, Irinjalakuda on 14 th and 15 th January, 2016. |
| Tijith K George, Haseena | Best paper award in the National Seminar on Plant science Technology for sustainable world -2016 |
| Glindya Bhagyalakshmy | Best paper presentation award. National Seminar on “Food Safety in India-Current Issues and Career Prospects” 2015 |
| Divya.R | Best paper presentation award Biovision 2014 |
| AjuK.Asok. | Best poster award (Life Science) 23rd Kerala Science Congress held on January 29-31, 2011 |
| Aswathy Agnes Joseph | First Prize for poster presentation at the 24th Kerala Science Congress, organized by Rubber Board., Kottayam, Kerala, India on 29-31, January 2012. |
| Roshmi Thomas | First Prize for Paper presentation, at “Nanotechnology: Applications of Nanomaterials in Agriculture, Food and medicine, 25-26 July organised by BK College, Amalagiri, Kottayam. Senior Research Fellowship Award (under Radhakrishnan EK) from Indian Council of Medical Research |
| Jasim B | First Prize for Paper presentation at the “National Seminar on Advanced Biochemical Techniques: Relevance in Interdisciplinary Research Scenario” on September 3-4, organized by B.K. College, Amalagiri, Kottayam. |
| Anisha C | Best Poster Award at the International Seminar on Emerging Trends in Organic Farming and Sustainable Agriculture organized by IUCOFSA, Mahatma Gandhi University, on 29 th 31 st Dec, 2016 |

- Student :**

| Name of the student | Details |
|---------------------|--|
| Rosemin Benny | Best paper award for Rosemin Benny at 25 th Swadheshi Science congress December 2015. |



30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|-------------|---|--|--|
| 2013-14 | State level seminar on “Stem Cell Therapy and Cancer” jointly organized by post graduate department of Biotechnology sassndpyogam College Konni and School of Biosciences M.G. University on 14th February 2014 (Convenor Dr.Keerthi.T.R) | UGC | Dr.C.K.K.Nair, Research Director, Pushpagiri Research Centre, Thiruvalla. |
| | Hands on workshop on DNA Barcoding of microbes 30.3.2014 (Convenor Dr.Jisha.M.S) | KSCSTE | Dr.Shaji Philip. RRI. Kottayam |
| 2014-15 | Seminar on “Cyber Space & Social Responsibility” jointly organized with School of Biosciences & PTA School of Biosciences on 28 th December 2015. | PTA | Mr.Ajith, Special DYSP, Kottayam |
| | National Training cum workshop on molecular docking and drug designing 23-25 March 2015 organized by school of Biosciences, Mahatma Gandhi University and BioDiscovery Group Life Sciences,, conducted on 23-25 March 2015. (Convenor Dr.Prakashkumar) | DBT-MSUB | Asif Naqvi CEO BioDiscovery Group Agra. |
| | One day Workshop for Teachers of affiliated Colleges in connection with PG Biotechnology Syllabus Revision -2015. | M.G. University | |
| 2015-16 | Seminar on “Social responsibility in animal birth control” jointly organized with School of Biosciences & Indian Veterinary Association-Kerala in connection with World Spay Day on 18th February 2016 | Indian Veterinary Association- Kerala | Dr.V.Gopakumar, District Animal Husbandary Officer, Kottayam |
| | Institutional level two day seminar on “Prevention & management of lifestyle diseases” jointly organized with School of Biosciences & Department of student services (DSS) of M.G. University on 17 th& 18 th March, 2016. (Convenor-Dr.M.S.Latha) | DSS ,M.G University | Dr.Thomas Varughese, MBBS,MD Oncologist, Lakeshore Hospital. |



31. Code of ethics for research followed by the departments:

School of Biosciences has Institutional Animal Ethical Committee, Biosafety Committee and also Human Ethical Committee. Research works have been conducted as per the rules and regulations and permission from these bodies. In addition, rules and regulations set by UGC and University are followed

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|------------------|--------|
| | | Male | Female | Male | Female |
| M.Sc Biochemistry/Microbiology/ Biotechnology/Biophysics | | | | | |
| 2011 | 392 | 3 | 32 | 100 | 100 |
| 2012 | 822 | 2 | 33 | 100 | 100 |
| 2013 | 852 | 3 | 31 | 100 | 100 |
| 2014 | 792 | 5 | 30 | 100 | 100 |
| 2015 | 854 | 8 | 26 | 100 | 100 |
| 2016 | 890 | 5 | 30 | Results awaiting | |

33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| 2011 | 22.3 | 60 | 17.7 | Nil |
| 2012 | 55.5 | 37.9 | 6.6 | Nil |
| 2013 | 51.2 | 40 | 8.8 | Nil |
| 2014 | 34.2 | 57 | 8.8 | Nil |
| 2015 | 55.6 | 44.4 | Nil | Nil |
| 2016 | 41.94 | 58.06 | Nil | Nil |



34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Sl. No | NET/ JRF Qualified | GATE | SET | Others |
|--------|--------------------|------|-----|--------|
| 1. | 40 | 40 | 5 | Nil |

35. Student progression

| Student Progression | % against enrolled |
|-------------------------------|--------------------|
| UG to PG | NA |
| PG to M.Phil | 6 |
| PG to Ph.D | 55 |
| Ph.D to Post Doctoral | 20 |
| Employed by Campus Selection | Nil |
| Other than Campus recruitment | 30 |
| Entrepreneurs | 2 |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|----|
| Of the same university | 27 |
| From other universities within the State | 64 |
| From universities from other States | 0 |
| From universities outside the country | 9 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|--|--|
| 1. Library | 2540 (Total books) |
| 2. Internet facilities for staff and students | Available |
| 3. Total number of class rooms | 5 |
| 4. Class rooms with ICT facility | Yes |
| 5. Students' laboratories | 4 |
| 6. Research laboratories | 12 <ul style="list-style-type: none"> • Microbiology Lab (3) • Biotechnology lab (3) • Biochemistry Lab (3) • Ecotechnology Lab (1) • Toxicology Lab (1) • DBT MSUB Lab (1) |



39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

Doctoral students

50/80

| Name of Guide | Name of Scholar |
|----------------------|---------------------------------|
| Dr. Latha M.S | Liji Jacob (Awarded) |
| | Sheeba K Oommen (Awarded) |
| | Jyothilakshmi M. (Awarded) |
| | Raji Ravindranathan Nair |
| | Helen Raisa Lal |
| Dr. Jyothis Mathew | Ms. Suja Philip (Awarded) |
| | Mini K.Paul (Awarded) |
| | Shini Zacharia (Awarded) |
| | Asha Peter (Awarded) |
| | Mini K.D (Awarded) |
| | Ashitha A. |
| | Neethu Sahadevan |
| | Radhika Murali |
| Dr. J.G. Ray | Chandana C |
| Dr. Keerthi T.R. | Honey Chandran C. |
| | Resmi S.S. |
| | Athira Krishnan K.A. |
| | Nithin T.U |
| | Rakhie Narayanan |
| | Glyindya Bhagyalakshmi |
| Dr. Jisha M. S | Aju K Asok (Awarded) |
| | Sharrel Rebello(Awarded) |
| | Shabanamol S(Awarded) |
| | Linu M. Salim(Awarded) |
| | Rishad K.S (Awarded) |
| | Elizabeth Mary John (Submitted) |
| | Divya K |
| | Tijith K.George |
| | Divya R |
| Dr. Jayachandran K | Elizabeth Cherian (Awarded) |
| | Seba George (Awarded) |
| | Amith Abraham (Awarded) |
| | Merlin Antony |
| | Sheetal Sivankutty |
| | Mohammed Ashiq |
| Dr. Prakash Kumar B. | Bashi M.B. |
| | Chinchu J.U. |
| Dr. Linu Mathew | Reshmi P A (Awarded) |
| | Reshma John (Awarded) |
| | Siji Raju |



| | |
|------------------------|--------------------------------|
| | Maya Rajan |
| Dr. Harikumar Nair | Abhilash M. (Awarded) |
| | Sauganth Paul M.V. (Awarded) |
| | Manju Alex (Awarded) |
| | Vineetha R.C. |
| | Binu P. |
| Dr. Anie Y. | Hazeena V.N. |
| | Haritha V.H. |
| | Binchu V. Shaji |
| Dr. E.K Radhakrishnan. | Rohini Sabu (Thesis submitted) |
| | Anisha C (Thesis submitted) |
| | Shiji Mathew |
| | Jishma P |
| | Aswani R |
| | Aswathy Jayakumar |

b) from other institutions/universities

Doctoral students 30/80

| Name of Guide | Name of Scholar |
|----------------------|------------------------------|
| Dr. Latha M.S. | Nitha Anand (Awarded) |
| | Prabha S.P. (Awarded) |
| | Ansil P. N. (Awarded) |
| | Latha B. (Awarded) |
| | Rajalakshmi R. (Awarded) |
| | Jayesh Kuriakose |
| | Syama S. |
| | Preetha K. Mattathil |
| | Vysakh A. |
| Dr. Keerthi T.R | Aparna Balakrishna (Awarded) |
| | Anu P. Sebastian (Awarded) |
| | Savitha K Koilery (Awarded) |
| | Anjali Anne Jacob (Awarded) |
| | Sudha V |
| Dr. Jyothis Mathew | Anuthara R. |
| | Sunitha V. S. |
| | Soumya Das |
| | Midhun Sebastian Jose |
| | SuNil M. A. |
| Dr. J.G. Ray | Binoy T. Thomas (Awarded) |
| | Dhanya Vijayan (Awarded) |
| | Santhosh Kumar (Submitted) |
| | Soumya Soman |
| | Prasanth Kumar S. |
| | Nideesh K.S. |
| | Abju K. Arun |
| | Deepthi A.S. |
| | Anitha Jose |
| Dr. Jisha M.S. | Ambily P.S. |
| | Pratibha T.R(Awarded) |



| | |
|------------------------|-------------------------------|
| | Athul Sandeep R(Awarded) |
| | Vinod Viswanath(Awarded) |
| | Dhanya S (Submitted) |
| | Smitha Vijayan |
| | Karthika |
| Dr. Jayachandran K. | Joseph Job (Awarded) |
| | Sajudeen P A (Awarded) |
| | Dhanya V (Awarded) |
| | Indu M Nair |
| | Anoop.M |
| | Padinjarakavil Soumya |
| Dr. Prakash Kumar B. | Jenny Jacob (Awarded) |
| | Anu P.A. |
| | Mohind C Mohan |
| | Teene Merlin |
| | Rahitha Devi |
| | Merlin Baby |
| Dr. Linu Mathew | Shajitha P.P. (Awarded) |
| | Aneesha Devassy (Awarded) |
| | Dhanesh N.R. |
| | Shahena S. |
| | Emi Mathew |
| Dr. Harikumar Nair | Mathews V. Varghese (Awarded) |
| | Abhilash S. |
| | Arathi P. |
| Dr. Anie Y | Surya P. Rajendran |
| | Neethi Raj P. |
| Dr. E.K. Radhakrishnan | Roshmi Thomas (Awarded) |
| | Jasim Bhasheer |
| | Jimtha John C (Awarded) |
| | Soumya K R (Thesis submitted) |
| | Chithra S (Thesis submitted) |
| | Deepa P Mohanan |
| | Snigdha |
| | Ashitha Jose |

40. Number of post graduate students getting financial assistance from the university.
Period 2011-2016

| Fellowship | Number |
|-------------------|---------------|
| E grants | 60 |



41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. Elective course were newly introduced in revision of syllabi. The need for new elective courses and open courses are discussed in the faculty council based on student feedback and peer assessment

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Department seek feedback from stakeholders and will discuss the feedback in the faculty council and Board of studies |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Feedback from the students will discuss in the faculty council and make suggestions for improvement |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Yes. The department council regularly discuss the feedback from the students and design future academic strategies accordingly |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|--|--|
| 1. | Dr. SuNilkumar Puthenpurackal Narayanan | Institute of Biophysics and Physical Biochemistry and Centre of Magnetic Resonance in Chemistry and Biomedicine (CMRCB), University of Regensburg, 93040 Regensburg, Germany |
| 2. | Dr. C. Kesavachandran | Principal Scientist, Indian Institute of Toxicology Research Lucknow-226001, India ckchandran@iitr.res.in |
| 3. | Dr. Sudarslal S. | Associate Professor at the School of Biotechnology, AmrithaVidhyapeedum University Amrithapuri, Kollam sudarsla@am.amrita.edu |
| 4. | Dr. Krishnan, Manoj | Assistant Professor, Nus and Duke center, Singapore, : manoj.krishnan@duke-nus.edu.sg |
| 5. | Dr Jacob Biboy | Research Associate, The Centre for Bacterial Cell Biology, Medical School, Newcastle University, United Kingdom jacob.biboy@ncl.ac.uk |
| 6. | Aneeshkumar. A.G | Faculty, Molecular Genetics Laboratory, National Institute of Immunology, New Delhi, aneesh@nii.ac.in |
| 7. | Dr. Srejith | Post-doctoral fellow Diabetes Research Unit |



| | | |
|-----|----------------|--|
| | | New York university medical center New York city- New York 10016 |
| 8. | Dr. Rajendran | Associate Professor, Division of Biochemistry and Molecular Biology, Central university of Kerala, Kasargod Mobile No. 9061877113 |
| 9. | Dr. Jolly Paul | Regulatory Affairs Specialist, Vifore Pharma Zurich, Switzerland |
| 10. | Dr.Arun A Rauf | Assistant Professor, Dept. of Biochemistry, University of Kerala Trivandrum, Mobile 9447290954 |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Enrichment programme are regularly organized by the School. In the last five years the following programme were organized. School of Biosciences is actively involved in various extension and social activities along with its major academic programmes. The details of various activities are summarized as follows.

| SL No | Name of the programme | Details |
|-------|---|---|
| 1. | Science exhibition in the month of February every year | The exhibition showcases major scientific research outputs of the department to the school and college students. |
| 2. | Awareness programme on nutrition and dietics in connection with food fest conducted in the month of February every year | Food fest is annually conducted to familiarize students about nutritional value of traditional recipes and culinary habits .Students are encouraged to prepare and sell traditional food stuffs including snacks. They are asked to advertise about the dietary value and nutritional importance of these food stuffs |
| 3. | Intercollegiate Science quiz programme conducted in the month of February every year | Students from the affiliated colleges of the MG University are being selected for the Quiz competition after the conduct of a preliminary written examination |
| 4. | Dr.P.C.Raveendran memorial lecture conducted every year in the month of March | The Alumni association conducts lecture series in every year in memory of our late founder faculty member Dr.P.C.Ravidran |
| 5. | A seminar on life style diseases conducted on January 18-19, 2011 | The seminar included invited talks and poster presentations on thrust areas of life style diseases namely Cancer, Diabetic, Cardiac diseases, Infertility and Nutritional therapy. |



| | | |
|-----|---|---|
| 6. | Documentary film show World environment day 5 th June 2012 | |
| 7. | Awareness and training programme on sustainable agricultural practices training programme | A training on Vermi composting for <i>Kudumbasree</i> members, a group for self reliance of women associated with Grama Panchayath) |
| 8. | Programme on Cyber space and social responsibility on December 28 th 2015 | The PTA of the School organized one day seminar on cyber crimes and social responsibility and experts included eminent persons from Kerala Police |
| 9. | A seminar on social responsibility in animal birth control conducted on 18-02-2016 | Seminar was conducted in association with Veterinary doctors association to create awareness about ABC programme. |
| 10. | Awareness programme on Community health on 18-02-2016 | PTA with school of biosciences organized an awareness programme on emerging challenges in community health in relation to personal and public hygiene. |
| 11. | Bodhani-An awreness programme for the prevention and management of Life Style diseases 17-18 March 2016 | The seminar included invited talks and poster presentations on thrust areas of life style diseases namely Cancer, Diabetis, Cardiac diseases and obesity. |
| 12. | Demonstration and Extension of Vermicomposting technique | A project work was funded by KBC, KSCSTE, under BIRD Project for the demonstration and extension of vermicomposting technique for the Solid Waste Treatment to Athirumpuzha Grama panchayath, Kottayam District |
| 13. | Workshop on DNA Barcoding of microbes | A hands on training on DNA Barcoding of microbes was conducted on 30.03.2014 |
| 14. | State level seminar on “Stem Cell Therapy and Cancer” | State level seminar on “Stem Cell Therapy and Cancer” jointly organize by post graduate department of Biotechnology SNDP Yogam College, Konni and School of Biosciences, Mahatma Gandhi University on 14th February 2014. |
| 15. | National Workshop on Molecular Docking and Drug Designing | A National Workshop on Molecular Docking and Drug Designing was conducted on 23-25 March 2015 |

45. List the teaching methods adopted by the faculty for different programmes.

- Regular lectures (ICT enabled)
- Participative learning programme-Seminar/symposium
- Collaborative learning-Group discussions /Common assignment
- Promotion of self-study experiences through quiz/spontaneous/ extempore explanations by students

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:



Critical analysis of student progress and achievement of programme objectives are carried out through frequent faculty discussions, student feedback analysis and interactions through tutorials. Timely conduct of internal evaluation also ensures assessment of learning outcome.

47. Highlight the participation of students and faculty in extension activities.

Bioscience forum is a common platform where faculties, research scholars, students, non-teaching work together for various extension activities, academic activities and social activities. Thanalkoottam and Nature club are also associated with the forum. Through Bioscience forum and thanalkoottam charity and social supportive activities are organized regularly which enable the student to keep an eye on the world around them.

48. Give details of “beyond syllabus scholarly activities” of the department.

1. Science exhibition in the month of February every year

The exhibition showcases major scientific research outputs of the department to the school and college students

2. Awareness programme on nutrition and dietetics in connection with food fest conducted in the month of February every year

Food fest is annually conducted to familiarize students about nutritional value of traditional recipes and culinary habits. Students are encouraged to prepare and sell traditional food stuffs including snacks. They are asked to advertise about the dietary value and nutritional importance of these food stuffs.

3. Intercollegiate Science quiz programme conducted in the month of February every year

Students from the affiliated colleges of the MG University are being selected for the Quiz competition after the conduct of a preliminary written examination.

4. Dr.P.C.Raveendran memorial lecture conducted every year in the month of March

The Alumni association conducts lecture series in every year in memory of our late founder faculty member Dr.P.C.Raveendran

5. A seminar on life style diseases conducted on January 18-19, 2011

The seminar included invited talks and poster presentations on thrust areas of life style diseases namely Cancer, Diabetics, Cardiac diseases, Infertility and Nutritional therapy.

6. Documentary film show World environment day 5th June 2012

7. Awareness and training programme on sustainable agricultural practices

Training on Vermicomposting for Kudumbasree members, a group for self-reliance of women associated with Grama Panchayath)

8. Programme on Cyber space and social responsibility on December 28th 2015

The PTA of the School organized one day seminar on cyber-crimes and social responsibility and experts included eminent persons from Kerala Police

9. A seminar on social responsibility in animal birth control conducted on 18-02-2016

Seminar was conducted in association with Veterinary doctors association to create awareness about ABC programme.

10. Awareness programme on Community health on 18-02-2016

PTA with School of biosciences organized an awareness programme on emerging challenges in community healthy relation to personal and public hygiene.



11. “Bodhani-An awareness programme for the prevention and management of Life Style diseases 17-18 March 2016

The seminar included invited talks and poster presentations on thrust areas of life style diseases namely Cancer, Diabetics, Cardiac diseases and obesity.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The school could bring research input in terms of the external research fund amounting up to 801.17 lakhs and through this could establish an excellent research facility. This has ultimately resulted in the generation of new knowledge through publications, thesis, new species and other deliberations.

The specific contributions included generation of new knowledge in the area of nutritional intervention in chemotherapeutic stress, genetic diversity analysis and population studies of endemic flora and fauna, development of probiotics as nutraceutical and therapeutic agents, cellular behaviour in pathophysiology, biodegradation and bioprocessing of pollutants, Ecology of algae, mycorrhizal fungi and hyper accumulator plants towards development of bio based ecotechnology. Characterization of medically important microorganisms, Molecular studies on endophytic association, toxicology /ethanopharmacology, medicinal plants, phosphate solubilizing microorganisms etc.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- **Research-** External Funding, External Project funded infrastructure
Most faculties have taken up external funded major research projects worth Rs **819.67 lakhs** from diverse funding agencies in the last five year period and have already published 233 scientific publications.
- **DBT -MSUB funded infrastructure** offering Animal house facility, Cell culture facility and facilities for molecular biological research.
- **Excellent academic support-**Academic programme in four different branches of life science could attract talented, meritorious postgraduate and research students from diverse areas of life sciences. Departmental library has good number of quality books and Wi-Fi connectivity to ensure usage of online library resources of the University library. Well-equipped specialized research laboratories in 12 different sub-disciplines of biosciences are available for Ph.D programmes.
- Faculty members specialized in diverse areas of Life Sciences viz. Biochemistry, Biotechnology, Biophysics, Microbiology, Plant Science and Technology, Physiology etc.
- Strong academic support from alumni and support from a committed PTA.

Weaknesses:

- Interrupted power supply
- Existing physical infrastructure not as per developmental needs
- Insufficient hostel and quarters facility
- Insufficient administrative support



- Inadequate financial and administrative autonomy

Opportunities:

- Creating well trained manpower to satisfy the requirements of industries and academia.
- Facilitation of start-up programme for young talented entrepreneurs in the area of applied life science.
- Initiation of academic collaborative programme and industrial linkages.
- Lab to land / bench top to bedside technology dissemination.
- Broadening knowledge domain facilitating creation of new ideas, concepts and innovative practices for better science-society interactions.

Challenges:

- Insufficient placement opportunities for the trained manpower in specialized areas
- Lack of prioritising in the selection of thrust areas for academic and industrial exercises during policy making.
- Lack of strategies for soft skill development.
- Insufficient space for class rooms and labs.
- Inconsistency in extending academic freedom.

52. Future plans of the department.

1. To conduct extension programme for facilitating better interaction with the society.
2. To bring more collaborations with national and international research institutes.
3. To establish a consistent campus recruitment process for the students of the school.
4. To initiate 'AIRES-Alumni Involved Research Enrichment Scheme- in the School.
5. To promote research activities among the faculties in a selected thrust area bringing a convergence in the research efforts.



SCHOOL OF CHEMICAL SCIENCES

| | | | | | | |
|-----|---|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | School of Chemical Sciences (SCS) | | | |
| 2. | Year of establishment | : | 1983 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, The School is under the Faculty of Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc) | : | M.Sc. Chemistry (Inorganic Chemistry) M.Sc. Chemistry (Organic Chemistry) M.Sc. Chemistry (Physical Chemistry) M.Sc. Chemistry (Polymer Chemistry) M.Phil. Chemistry (Inorganic Chemistry) M.Phil. Chemistry (Organic Chemistry) M.Phil. Chemistry (Physical Chemistry) M.Phil. Chemistry (Polymer Chemistry) M.Tech. Polymer Science and Technology Ph.D. (All branches of Chemistry and Polymer Science) | | | |
| 5. | Interdisciplinary programmes and departments involved | : | The four branches of M.Sc. and M. Phil. Chemistry Programmes are interdisciplinary | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions etc. | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Integrated M.Sc. Ph.D .programme is discontinued due to scarcity of Research supervisor at the Ph.D. level | | | |
| 8. | Examination system | : | Semester (Choice Based Credit and Semester System) | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Open Courses (4 Credits) | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 1 | - | 5 |
| | | | Associate Professors | 4 | 2 | 4 |
| | | | Asst. Professors | 8 | 8 | 1 |
| | | | Guest Faculty | | | 1 |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualifications | Designation | Specialization | No. of years of experience | No. of Ph.D./M.Phil Students guided for the last 6 yrs |
|-----------------------|---------------------------|---------------------|--------------------------------|-----------------------------------|---|
| Dr. S. Anas | M.Sc, B.Ed, Ph.D. | Assistant Professor | Polymer Chemistry | 6 Years | M.Phil – 1 Ph.D ongoing- 3 |
| Dr. G. Anilkumar | M.Sc, M.Phil., Ph.D | Associate Professor | Organic Chemistry | 10 Years | M.Phil – 8 Ph.D submitted-2 ongoing- 5 |
| Dr. Beena Mathew | M.Sc., Ph.D | Professor | Physical Chemistry | 23 Years | M.Phil – 8 Ph.D awarded- 9 ongoing- 8 |
| Dr. K.S. Devaky | M.Sc., Ph.D | Associate Professor | Organic Chemistry | 23 Years | M.Phil – 4 Ph.D awarded- 8 ongoing- 8 |
| Dr. I. Ibnu Saud | M.Sc., Ph.D | Professor | Organic Chemistry | 23 Years | M.Phil – 2 Ph.D awarded- 3 ongoing- 3 |
| Dr. A. S. Padmanabhan | B.Tech., M.S. Ph.D | Professor | Physical Chemistry | 29 Years | M.Phil – 4 Ph.D awarded- 1 ongoing- 2 |
| Dr. Pius Kuruvilla | M.Sc., Ph.D | Associate Professor | Physical Chemistry | 25Years | M.Phil -2 Ph.D ongoing- 2 |
| Dr. Raju Francis | M.Sc., Ph.D | Associate Professor | Chemistry | 16 Years | M.Phil – 2 Ph.D awarded- 1 ongoing-3 |
| Dr. Sabu Thomas | B.Tech., Ph.D. FRSC, D.Sc | Professor | Polymer science and Technology | 29years | M.Phil – 6 Ph.D awarded- 23 ongoing- 8 |
| Dr.Suresh Mathew | M.Sc., Ph.D | Professor | Inorganic Chemistry | 16 Years | M.Phil – 5 Ph.D awarded- 5 ongoing- 4 |



12. List of Senior Visiting Fellows, adjunct faculty, emeritus professors

| Sl.No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|-------|---|---|---------------------|
| 1. | Prof. M.R. Gopinathan Nair M.Sc., Ph.D. | Visiting Professor | Polymer chemistry |
| 2. | Prof. P. Madhavan Pillai M.Sc., Ph.D | Visiting Professor | Organic chemistry |
| 3. | Prof. M. Padmanabhan M.Sc., Ph.D | Visiting Professor | Inorganic chemistry |
| 4. | Ms. Chithra Mohan M.Sc., M.Phil | Adjunct faculty | Physical chemistry |

13. Percentage of classes taken by Temporary Faculty – Programme-wise information

| No. | Course | Percentage |
|-----|---|------------|
| 1 | M.Sc. Chemistry (Inorganic Chemistry) M.Sc. Chemistry (Organic Chemistry) M.Sc. Chemistry (Physical Chemistry) M.Sc. Chemistry (Polymer Chemistry) | 22% |
| 2 | M.Phil. Chemistry (Inorganic Chemistry) M.Phil. Chemistry (Organic Chemistry) M.Phil. Chemistry (Physical Chemistry) M.Phil. Chemistry (Polymer Chemistry) | 30% |
| 3 | M.Tech. Polymer Science and Technology | 30% |
| 4 | Ph.D. Course work | 20% |

14. Programme-wise student-teacher ratio

| Course | Students | Teacher | Ratio |
|---------|----------|---------|-------|
| M.Sc. | 32 | 10 | 3:1 |
| M.Phil. | 12 | 10 | 1:1 |
| M.Tech. | 10 | 2 | 5:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Technical Staff | | Administrative Staff | |
|-----------------|--------|----------------------|--------|
| Filled | Actual | Filled | Actual |
| 10 | 14 | 3 | 4 |



16. Research thrust areas as recognized by major funding agencies

| | |
|---|--|
| <ul style="list-style-type: none"> • Synthetic organic chemistry • Catalysis • Medicinal chemistry • H₂ generation for energy source • Self-assembled materials • Synthetic and biopolymers • Hybrid materials • Environmental chemistry • Photochemistry • Polymer synthesis • Design, synthesis and studies of functionalized polymers • Green chemistry • Molecular sensors • Targeted drug delivery • Solid-phase peptide synthesis • Polymeric reagents • Enzyme-mimic reactions • Mathematical chemistry • Computational chemistry • Self avoiding walks • Statistical mechanics of reacting polymers | <ul style="list-style-type: none"> • Hydrothermal synthesis. • Metal and metal oxide nanostructures • Nanophotocatalysis • Core-shell nanostructures • Open framework solids and crystal engineering • Thermal analysis of solids • Composite solid propellants • Nano ferrofluids • Chiral pool synthesis • Chemo, regio- and stereo reaction pathways in organic reactions • Stereochemical structure determination using chiroptical spectroscopy • Polymer composites and blends • Ageing and degradation • Pervaporation phenomena • Interpenetrating polymers • Recyclability and reuse of waste plastics and rubbers • Elastomers • Creativity in science education |
|---|--|

17. Number of faculty with ongoing projects from: a) national, b) international funding agencies and, c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise

a) National

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|-------|---|-----------|----------------------------------|-------------------------|
| 1. | Synthesis of few Medicinally Important Chiral Molecules Derived from Renewable Resources (P I Dr.I Ibnu saud) | 2013-2017 | DST, Project No.SR/S1/OC-98/2012 | 55.00 |
| 2. | Respond project from ISRO | 2016-2019 | ISRO | 19.20 |
| | Prof. Sabu Thomas | | | |
| 3. | Development of Thermoplastic Vulcanizates (TPVs) from Natural | 2009-2012 | KSCSTE. | 14.70 |

| | | | | |
|-----|--|------------|---|---------------|
| | Rubber and polypropylene Blends for the Fabrication of Automotive Parts and shoe Soles | | | |
| 4. | Development of biodegradable dual porous polymer nanocomposite scaffold | 2008-2011 | DBT, New Delhi | 58.59 |
| 5. | Carbon nanotube filled natural rubber nanocomposites. | 2010-2013 | UGC-DAE | 4.00 |
| 6. | Development of high performance rubber modified epoxy resin/clay nanocomposites | 2008-2011 | UGC, New Delhi | 8.89 |
| 7. | High permoance polymer blend from epoxy resin and PTT for aerospace application | 2009-20012 | DRDO | 25.30 |
| | Dr. Raju Francis | | | |
| 8. | Synthesis And Applications of Star Block Copolymers, Dendrimers And Star Gel Containing Biocompatible Block (Dr. Raju Francis) | 2007-2011 | Council of Scientific & Industrial Research | 14.00 |
| 9. | Acetic Anhydride Mediated Cyclodehydration of Various N-Substituted Maleamic Acids to Form Maleimido Derivatives – A Computational Study | 2012-2014 | UGC, New Delhi , | 25.00 |
| | Dr. G. Anilkumar | | | |
| 10. | Copper catalysed C-C, C-O and C-S bond formations using N and O containing bidentate ligands. | 2013-2016 | KSCSTE | 15.85 |
| | Total | | | 240.53 |

b) International

| Sl.No. | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|--------|---|-----------|------------------|-------------------------|
| 1 | Study of Fundamental Chemical and Physical Properties of Magnetic Ionic Liquid Nanofluids | 2015-2018 | DST-Poland | 5.42 |

c) Total grants received: ₹ 245.95 Lakhs



18. Inter-institutional collaborative projects and associated grants received

• **National collaboration :**

| Sl.No. | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|--------------|--|-----------|-------------------|-------------------------|
| 1. | Development of high performance butyl rubber nano composites for barrier application (PI: Prof.Sabu Thomas) | 2007-2011 | DST –apollo tyres | 39.94 |
| 2. | Tuning the properties of stimuli sensitive copolymers- A step towards purification of water (Dr. Raju Francis) | 2009-2012 | SERC-DST | 28.35 |
| Total | | | | 68.29 |

b) International:

| Sl.No. | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|--------------|---|-----------|------------------|-------------------------|
| 1. | Study of Fundamental Chemical and Physical Properties of Magnetic Ionic Liquid Nanofluids | 2015-2018 | DST-Poland | 5.42 |
| 2. | Hierarchical biocomposites from Isora fibres and unsaturated polyester | 2014-2016 | DST-Austria | 15.00 |
| Total | | | | 20.42 |

Total grants received: • 88.71 Lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc. Total grants received.

| Sl.No. | Title of the Project | Funding Agency | Grant Received (Lakhs) | Duration |
|--------|---------------------------|----------------|------------------------|------------------|
| 1 | UGC XI and XII Plan funds | UGC | 40.00 | 2010-2016 |
| 2 | DST FIST | DST | 175.00 | 2012-2016 |
| 3 | State Annual Plan Fund | Govt of Kerala | 74.00 | 2010-2016 |
| 4 | UGC SAP | UGC | 75.00 | 2012-2016 |
| 5. | DST-PURSE | DST | 225.00 | 2012-2016 |

Total grants received: ₹ 589 Lakhs

**20. Research facility / centre with**

- State recognition : Yes
- National recognition : Yes
- International recognition : Yes

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil**22. Publications**

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 385 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 25 |
| 4. | Chapters in Books | 22 |
| 5. | Edited Books | 44 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 476 |

Details of *h*-index and citations

| Name | <i>h</i> – Index | Total Citations |
|-------------------------|------------------|-----------------|
| Dr. S. Anas | 10 | 368 |
| Dr G Anil kumar | 22 | 1830 |
| Prof. Beena Mathew | 13 | 566 |
| Prof. K.S. Devaky | 8 | 128 |
| Prof. I. Ibnu Saud | -- | 138 |
| Prof. A. S. Padmanabhan | -- | 51 |
| Dr. Pius Kuruvilla | 3 | 13 |
| Dr. Raju Francis | 14 | 767 |
| Prof. Sabu Thomas | 78 | 27630 |
| Prof. Suresh Mathew | 17 | 812 |

**23. Details of patents and income generated: 12 patent**

| SL.No | Patents Granted | Income generated |
|-------|--|------------------|
| 1 | Photosensitizers and use thereof for generating hydrogen from water. N. Stefan, D. Uwe, B. Jens, H. Sascha, B. Matthias, Z. Horst-Werner, G. Felix, C. Daniela, D. Stefania, G. Anilkumar, L. Sebastian, J. Henrik, G. Serafino, B. Matthias US patent. US 2014/0023582 A1. (2014) Verfahren zur katalytischen oxidation von Wasser. G. Anilkumar, S. Losse, S. Gladiali, N. Marquet, F. Gartner, S. Dennura, H. Junge, M. Beller, D. Cozzula, German patent. DE 10 2011 079424 A1 (2013) | Nil |
| 2 | Ibnusaud and Sarath Muralidharan Pillai.Enatiopure total synthesis of indolizinoindole alkaloid (+) harmicine and (-) harmicine from (2S,3R)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid (Hibiscus acid) and (2S,3S)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid(Garcinia acid). Indian Patent application No . 3682/CHE/2016 | Nil |
| 3 | Synthesis of(R)-(+)-Crispine Aand(S)-(-)-Crispine A from(2S,3R)- and (2S,3S)-Tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acids, Divya Sadasivan Nair, Deenamma Habel and Ibrahim Ibnusaud, Indian Patent application No. 3484/CHE/ 2016S | Nil |
| 4 | Process for catalytic oxidation of water. N. Marquet, G. Anilkumar, F. Gartner, S. Losse, S. Dennura, D. Cozzula, S. Gladiali, M. Beller International Patent. WO 2013/010902 A1 (2013) | Nil |
| 5 | Photosensitizers and use thereof for generating hydrogen from water. N. Stefan, D. Uwe, B. Jens, H. Sascha, B. Matthias, Z. Horst-Werner, G. Felix, C. Daniela, D. Stefania,G. Anilkumar, L. Sebastian, J.Henrik, G. Serafino, B. Matthias International Patent.WO 2012/065833 A1. (2012) | Nil |
| 6 | Photosensibilisatoren und deren Einsatz zur wasserstoffereugung aus wasser. N. Stefan, D. Uwe, B. Jens,H. Sascha, B. Matthias, Z. Horst-Werner, G. Felix, C. Daniela,D. Stefania, G. Anilkumar, L. Sebastian, J. Henrik, G. Serafino, B. Matthias European Patent. DE 10 2010044155 A1. (2012) | Nil |
| 7 | Fibre reinforced composites with toughened epoxy matrix and a process for preparing the same, Application 940/CHE/2006, published 2007-12-07. Vattikuti Lakshmana Rao, Bejoy Francis, Rajagopal Ramaswamy, Kavoov Ninan Ninan, Sabu Thomas. Ptent no. 276350, date of grant 17/10/2016 | Nil |



| | Patents filed | |
|---|---|-----|
| 1 | Biodegradable, Biocompatible Wound Healing Dressing Film and ointment from the Biocomposite of Marine Origin, Indian Patent application: 840/DEL/2013, M.Kurup and Sabu Thomas | Nil |
| 2 | Highly gas impermeable elastomeric rubber- rubber blend nanocomposite, Indian Patent Application no: 135/CHE/2012, Sabu Thomas, Ajesh K. Zachariah, P.K. Mohammad, Arup Kumar Chandra. | Nil |
| 3 | Biodegradable, Biocompatible Wound Healing Dressing Film and ointment from the Biocomposite of Marine Origin, Indian Patent application : 840/DEL/2013, M. Kurup and Sabu Thomas. | Nil |
| 4 | Method for improving the comparative tracking index of polymer composites, Indian patent Application No:239/CHE/2014, Harinarayanan Puliylalil, Uros Cvelbar,Miran Mozetic, Sabu Thomas. | Nil |
| 5 | A polymer Nanocomposite, Process And Application there-of ,WIPO Publication number: WO2016142848 A1, Publication date: Sep 15, 2016, and Indian patent Application No: 638/DEL/2015 Mohammed Arif P, Sabu Thomas, Nandakumar Kalarikkal | Nil |

24. Areas of consultancy and income generated

Analytical facilities are made available to research students of other schools/centres/colleges and these are offered on a suitable payment basis.

Income generated (2011-2016)

| Financial year | Income generated in Rupees |
|----------------|----------------------------|
| 2011-2012 | 1,38,130 |
| 2012-2013 | 67,660 |
| 2013-2014 | 64,400 |
| 2014-2015 | 53,450 |
| 2015-2016 | 29,950 |
| Total | 3,53,590 |



**25. Faculty selected nationally/internationally to visit other Laboratories/
institutions/industries in India and abroad**

| Sl. No. | Name of Faculty | Laboratory/Intitutions |
|----------------|--------------------------|---|
| 1 | Dr. Sabu Thomas | <ol style="list-style-type: none"> 1. Universities in Croatia and Slovenia Nov. 2010 2. Universities in France, June, 2011 3. Universities in Korea. 2012 Feb 4. University of Strasbourg, Frace2012 April 5. Adam Mickiewicz University, Poznan, Poland , 2013 Feb, 6. Univerity of Basra, Iraq2014 March 7. University Tehcology, Mara, Malaysia,2014, April 8. Warsaw University of Tehcology, Warsaw, Poland , 2014 May 9. Durban University of Tehcnology, Durban, South Africa,2014 July 10. CSIR, Port Elizabeth, South Africa 2014, July 11. Cape Peninsula University of Tehcology, Cape Town, South Africa 2014 July, 12. LIMATB, University of South Brittany, France,2015, March 13. University of Strasborg , France 2015,March 14. Institute for Polymer Research Dresden (IPF), Germany 2015 March 15. Singapore, 2015May 16. University of Graz, Austria, 2015,May 17. Conference Turkey2015,August 18. Durban University of Technology, Durban, South Africa,2015, Invited Speaker |
| 2 | Dr. Suresh Mathew | <ol style="list-style-type: none"> 1. Rzeszow University of Technology, Rzeszow, Nov 26, 2015, Poland 2. New York University, Abu Dhabi, May 17, 2015, UAE |
| 3 | Dr I. Ibnsaud | <ol style="list-style-type: none"> 1. Vanderbilt University, Nashville, USA, June 2010 2. Sapporo, Japan ,JULY 2010 3. Purdue University, USA ,June 2012 4. Fort Worth, Texas, USA March 2012 5. Rutgers, The State University of New Joursey, NJ, USA 2012 6. Liverpool, UK 2011 |
| 4 | Dr. Raju Francis | <ol style="list-style-type: none"> 1. Toyo University, JAPAN 2012 2. University of Hyderabad, India 2013 |



26. Faculty serving in: a) National committees, b) International committees, c) Editorial Boards, d) any other (please specify)

a) National committees

| Sl. No. | Name of the faculty | Committee |
|---------|-------------------------|---|
| 1. | Dr. I. Ibnu Saud | 1. Life Member, Indian Association of Chemistry Teachers, (IACT), Mumbai 2. Life Member , Chemical Research Society of India (CRSI), Bangalore. 3. Member Executive Council Indian Association of Chemistry Teachers, Homi Bhabha Centre for science Education (TIFR), Mumbai. (IACT). |

b) International committees

| Sl. No. | Name of the faculty | Committee |
|---------|-------------------------|--|
| 1. | Dr. Beena Mathew | Member of American Chemical Society |
| 2. | Dr.Sabu Thomas | Fellow of the Royal Society of Chemistry, London (FRSC)2012, Member of American Chemical Society |
| 3. | Dr.Suresh Mathew | Member of American Chemical Society |

c) Editorial Boards

| Sl. No. | Name of the faculty | Committee |
|---------|-------------------------|---|
| 1. | Dr.Sabu Thomas | 1. Chief editor, Nano-Structures & Nano-Objects, Elsevier 2. SM Journal of Nanotechnology and Nanomedicine 3. Nano Advances 4. Materials Science and Engineering (Editorial Key Reviewers Committee) 5. International Journal Of Advances In Engineering Research 6. World Journal of Biotechnology 7. Journal of Emerging Materials Technology 8. Associate Editor, Bulletin of Materials Science 9. Regional Editor of the journal "Current Smart Materials |
| 2. | Dr. G Anil kumar | 1. Universal Journal of Chemistry Editorial board of Horizon Research Publishing, USA |
| 3. | Dr.Suresh Mathew | 1. Science Advanced Today 2. Science Letters 3. Science of Advanced Materials 4. International Journal of Nanotechnology |



d) any other activities

| Sl. No. | Name of Faculty | Committee |
|----------------|----------------------------|---|
| 1 | Dr.A.S. Padmanabhan | 1. Reviewer of Manuscripts for Discrete Applied Mathematics |
| 2 | Dr. Beena Mathew | 1. Reviewer of various of journals of Wiley, Elsevier, Taylor & Francis, and Springer Publishers 2. Member, Board of Studies, Central University of Kerala 3. Member, Board of Studies, School of Chemical Sciences, M. G. University 4. Member, Board of Studies, Department of Chemistry, CMS College (Autonomous), Kottayam (2015-) 5. Member, Board of Studies, Department of Chemistry, S.H College (Autonomous), Thevara, Ernakulam (2015-) |
| 3 | Dr. K.S. Devaky | 1. Reviewer of various of journals of Biosynthesis 2. Member, UG Board of studies, MGU 3. Member, Board of studies, SCS |
| 4 | Dr. I. Ibnu Saud | 1. Member, Board of studies of MSc. Chemistry, School of Chemical Sciences, M. G. University. 2. Member, Board of studies of MSc. Chemistry (PG) in M. G. University |
| 5 | Dr. S. Anas | 1. Member, MG university Senate 2. Member combined board of studies, IIRBS syllabus revision 2016 3. NAAC cell member, M.G. university 4. Member, core-committee of IIRBS 2016 5. Member, Board of studies PSRT, CUSAT 6. Member, Board of studies, SB College Changanassery 7. Additional chief superintend MGU off campus Examination Cherthala, 2015 |
| 6 | Dr .G.Anilkumar | 1. Reviewer of (a) American Journal of Chemistry & Material Sciences (b) Mini Review in Org. Chem. (c) Chemistry Select (d) Chem. Lett (e) Journal of Org. Chem (f) Lett. in Org. Chem (g) Tetrahedron (h) RSC Chemical Sciences (i) ChemSusChem (j) Jcs Pakistan |



27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, Workshops, training programs and similar programs)

| Name of Faculty | Programme | Institute | Duration |
|--------------------------|--|---------------------------------------|--------------------------|
| Dr. G. Anil Kumar | Orientation course at ASC | University of Calicut | May 16- June 12, 2012 |
| | Refresher course in Chemistry, ASC | Univ. of Hyderabad, | 11.07.2012 to 31.07.2012 |
| | Short term course for research guides in Sciences, ASC | Univ. of Kerala, | 30.01.2013 to 20.02.2013 |
| | Special Winter School, ASC | Univ. of Kerala | 28.11.2014 to 18.12.2015 |
| | Short term course in Soft skill development, ASC | Univ. of Kerala | 24.02.2015 to 28.02.2015 |
| | Faculty Development Programme in Concept Coaching by ICT | Univ. of Kerala | 9-10 Dec 2014 |
| | DST-PURSE sponsored Workshop on Frontiers of Spectroscopy and Microscopy | MGU Kottayam | September 10-12, 2012 |
| | National Workshop on Computational Chemistry | | May 31- June 3, 2013 |
| | National Workshop on Advances in Instrumental Techniques for Nanomaterial characterization | IIITM-K, Trivandrum | 7-8 March, 2014 |
| | National Workshop on Computer Aided Drug Design Workshop for College Chemistry Students and Teachers | IIITM-K, Trivandrum | 27-30 March, 2014 |
| Dr.I.Ibnu saud | International and Interuniversity workshop on Microscopy | IIITM-K, Trivandrum | 6-8 October 2015 |
| | Innovation in Science Pursuit for DST Inspire Research Camp | S.H College, Thevara | 12 Sept. 2012 |
| | The Art of Scientific Research | | July 05, 2011. |
| | CSIR - Open Source Drug Discovery (OSDD) meeting | School of BioSciences, M G University | 02.07.2011 |



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|-------------------------|--|---|---------------------------------|
| | CSIR - Open Source Drug Discovery (OSDD) meeting | IIRBS | 24 th June 2011 |
| Dr.S.Anas | UGC-sponsored Orientation Programme | University of Kerala | 03-10-2013 to 30-10-2013 |
| | UGC-sponsored special summer school conducted by UGC | University of Kerala | 30-7-2014 to 19-8-2014 |
| | Emerging Youth” for National Service Scheme (NSS) Volunteers of Govt. Devi vilasom HSS, Kudavechoor, Vaikom | Gov. H.S.S. T.V. Puram, Vaikom | 22 nd December 2015 |
| | One day workshop on NAAC accreditation process | Mahatma Gandhi University | 12 th April 2016 |
| | Work shop on ”Fundamentals and applications Material science | Mahatma Gandhi University | Mach 4-6 |
| | One day outreach program hosted by IICUNN, Kottayam on Facilitating innovation and Patent filing | IUCIPRS and MHRD Chair on IPR, CUSAT | February 29, 2016 |
| | Faculty Development Programme in Concept Coaching by ICT Academy of Kerala | University of Kerala,ASC | 9-10 Dec 2014 |
| Dr.Raju Francis | 1.UGC Refresher Course programme | | |
| Dr.Suresh Mathew | 1. Workshop on Advanced Materials And Modern Manufacturing Techniques 2.National Workshop on Renewable Energy Technologies (2016) | Saintgits College of Engineering St. Alberts College, Ernakulam | 2014 31 Oct-02 Nov, 2014 |

Other recharging activities of teachers

Seminar /Conference Attended/ Presented Papers

| Sl. No. | Details |
|----------------|--|
| 1. | Presented a paper in the First International Conference on Composites and Nanocomposites (ICNC - 2011) January 7-9, 2011 in Mahatma Gandhi University, Kottayam, Kerala. “Synthesis and Characterization of Silver Nanoparticles Loaded Poly(N-isopropyl)acrylamide Based Terpolymer” (Dr. Raju Francis) |
| 2. | Presented a paper in the International Conference “Functional Polymers” held in NIT Calicut, Kerala, India during 28-30 January, 2011. “Synthesis and Characterization of Polystyrene-block-Chitosan Star Polymer” (Dr. Raju Francis) |



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|-----|---|
| 3. | Synthesis and Characterization of Silver Nanoparticles Loaded Poly(N-isopropyl) acrylamide Based Terpolymer". Nijil E. T. and Raju Francis. Second International Symposium in Frontiers in Polymer Science, 29-31 May 2011, Centre de Congrès, Lyon, France. (Dr. Raju Francis) |
| 4. | Hazardous dye removal from Water using polymeric hydrogels, Gigimol M.G, Dhanya K.R and Beena Mathew , 22nd Kerala Science Congress, KFRI, (Peechi) 2010. |
| 5. | Adsorption of Rose Bengal by Crosslinked Poly (N-Vinyl pyrrolidone), Dhanya K.R, Gigimol M.G and Beena Mathew , 97th Indian Science Congress 2010, University of Kerala, Thiruvananthapuram, 13-17, January 2010. |
| 6. | Microwave assisted polymer-supported oxidation reactions using polyvinylpyrrolidone-bromine complexes, Saju M. Sebastian, Beena Mathew & Ebey P. Koshy, 21st Swadeshi Science Congress, Kollam, Swadeshi Science Movement, Nov 7-9, 2011 Hazardous dye removal from Water using polymeric hydrogels, Gigimol M.G, Dhanya K.R and Beena Mathew , 22nd Kerala Science Congress, KFRI, (Peechi) 2010. |
| 7. | Adsorption of Rose Bengal by Crosslinked Poly (N-Vinyl pyrrolidone), Dhanya K.R, Gigimol M.G and Beena Mathew , 97th Indian Science Congress 2010, University of Kerala, Thiruvananthapuram, 13-17, January 2010 |
| 8. | Synthesis of 2,4-D imprinted polymers with high specificity and selectivity (oral), K.M. Annamma, National Conference on Advances in Nanoscience and Technology, Amal Jyothi College of Engineering 22-23, April 2010. |
| 9. | Significance of polymeric hydrogels for the removal of hazardous dye Malachite Green from water, Gigimol M.G, Dhanya K.R and Beena Mathew , International Conference on Polymer processing & characterisation M. G. Univ. Kottayam January 15-17, 2010. |
| 10. | Co-polymeric hydrogel for the removal of hazardous dye Malachite Green from Water, Gigimol M.G, Dhanya K.R and Beena Mathew , National Seminar on Nanomaterials, Amal Jyothi College of Engineering, Kanjirappally 22-23, 2010 |
| 11. | Dependence of the degree of crosslinking on the enantioselectivity of D-Mandelic acid imprinted polymer, Smitha K. R & Beena Mathew , UGC sponsored National Seminar on Green Chemistry, Alphonsa College, Pala, July 2010. |
| 12. | Design of Semi IPNs for selective Metal Ion Binding, Shiby Susan Kuriakose, Beena Mathew , UGC sponsored National Seminar on Green Chemistry, Alphonsa College, Pala, July 2010. |
| 13. | Design of Metal ion selective polymers by ion imprinting, Bindu M. S & Beena Mathew , UGC sponsored National Seminar on Green Chemistry, UGC sponsored National Seminar on Green Chemistry, Alphonsa college, Pala, July 2010 |
| 14. | Molecular imprinted polymers of a flavanoid, Subi Joseph & Beena Mathew , UGC sponsored National Seminar on Green Chemistry, Alphonsa college, Pala July 2010. |
| 15. | Processing & Characterization of Polymeric Hydrogels & the Removal of Hazardous dye Malachite Green from Water, Gigimol M.G, Dhanya K.R, Beena Mathew , International Conference MSE-2010-Material Science and Engineering Technical University, Darmstadt, Germany 24-26, August 2010 |
| 16. | Role of polymeric hydrogels in the environment, Gigimol M.G, Dhanya K.R and Beena Mathew , ACS 178 Technical Meeting (Rubber Division), Online Ailwaukee, WI, USA, October 12-14, 2010 |



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| 17. | Rose Bengal Bound NNMBACrosslinked Aminopolyacrylamide as Polymeric Photosensitizer, Gigimol M.G, Dhanya K.R and Beena Mathew , National Conference on current trends in Chemistry NCCTC-10, Bharatiar University, Coimbatore 2- 3, December 2010 |
| 18. | Photo oxidizing Ability of NNMBACrosslinked Amino polyacrylamide, Gigimol M.G, Dhanya K.R and Beena Mathew , National Conference on current trends in ChemistryNCCTC-10 Bharatiar University, Coimbatore 2- 3, December 2010 |
| 19. | Synthesis and Characterization of Crosslinked Poly N-vinyl pyrrolidone and Binding of Rose Bengal by Poly N-vinyl pyrrolidone, Gigimol M.G, Dhanya K.R and Beena Mathew , International Conference on Functional Polymers, NIT Calicut, Jan 28-30, 2011 |
| 20. | Treatment of Waste Water by using TTEGDA- crosslinked Acrylic Acid-N-Vinyl pyrrolidone Co polymeric Hydrogel, Gigimol M.G, Dhanya K.R and Beena Mathew , International Conference on Functional Polymers, NIT Calicut, Jan 28-30, 2011 |
| 21. | Microwave assisted polymer-supported oxidation reactions using polyvinylpyrrolidone-bromine complexes, Saju M. Sebastian, Beena Mathew & Ebey P. Koshy, 21st Swadeshi Science Congress, Kollam, Swadeshi Science Movement, Nov 7-9, 2011 |
| 22. | Composites and Nanocomposites, Sabu Thomas & Mathew , First International conference,organized by Institute of macromolecular Science and engineering,& Beijing University of chemical Tecnology, BeiSan Huan East Road 15#, Chaoyang District, Beijing, China |
| 23. | Presented a paper on Latest in Polymers in the international conferences organized by J.J Murphy Centre held at the Rubber Park Campus,Kochi,Kerala (Dr.Sabu Thomas) |
| 24. | Anas, S. ;Jahn,B.O.;Dahlstrand,C.;Nauoozi,D.;Ott,S.;Ottosson,H.Synthesis and exploration of6,6-dicyanosubstituted fulvenes in their lowest excited states;a poster presented at the symposium onTrends in organic Chemistry :The Physical organic View ,Uppsala University , Sweden,November,2012,P05 |
| 25. | Anas, S. ; Jahn,B.O.;Dahlstrand,C.;Ottosson,H.Synthesis and exploration of substituted fulvenes in their lowest excited states; a poster presented at 21st IUPAC International conferences on Physical organic Chemistry(ICPOC-21) , Durham University ,UK,September,2012,P012 |
| 26. | Anas, S “Alternative Resources in Kerala” in the New Kerala development forum organized by solidarity Youth movement held at Ernakulam on 2011 March 11. |
| 27. | Materials (ICRRM – 2013), March 6-9, 2013,Rubber Technology Centre,IIT Kharagpur – 721 302 (Dr. Sabu Thomas) |
| 28. | Oral presentation of paper by Hanna J Maria International Conference on Rubber and Rubber like Materials (ICRRM – 2013), March 6-9, 2013 Rubber Technology Centre, IIT Kharagpur – 721 302 (Dr. Sabu Thomas) |
| 29. | Oral presentation of paper by Runcy Wilson , National seminar on Advanced Polymers SCIENTIA-2012., Mahatma Gandhi University College of Engineering, Muttom, Thodupuzha 685 587,Kerala(Dr. Sabu Thomas) |
| 30. | Oral presentation of paper by Hanna J Maria National seminar on Advanced Polymers SCIENTIA-2012., Mahatma Gandhi University College of Engineering,Muttom, Thodupuzha 685 587,Kerala (Dr. Sabu Thomas) |
| 31. | Transition State Analogue Imprinted Polymer as an Efficient Catalyst for the Hydrolysis of Amino Acid Esters: Christy Philip and K. S. Devaky , International |



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| | Conferences on Advances in Material Sciences (ICAMS-2013) Sree Sankara College , Kalady 23 -24 October 2013. |
| 32. | Nano isorecticular metal organic frameworks- A review”; Vandana P.V, Seetharaj. R, Suresh Mathew , National Seminar on Nano science and Technology on February 15th& 16th, 2013 at Department of Science and Humanities, Sree Narayana Gurukulam College of Engineering, Kadayiruppu, Kolenchery |
| 33. | Catalytic activity of NanoCuO in the thermal decomposition of ammonium perchlorate – A review”, Jisna Jos, Suresh Mathew , National Seminar on Nano science and Technology on February 15th& 16th, 2013 at Department of Science and Humanities, SreeNarayanaGurukulam College of Engineering, Kadayiruppu, Kolenchery |
| 34. | Grapheme based TiO ₂ Nano composites- A review”, Divya K.S, Suresh Mathew . National Seminar on Nano science and Technology on February 15th& 16th, 2013 at Department of Science and Humanities, SreeNarayanaGurukulam College of Engineering, Kadayiruppu, Kolenchery |
| 35. | Termary Hybrid of Nano TiO ₂ with noble metal and graphene- A Review, Umadevi T.U, Suresh Mathew , National Seminar on Nano science and Technology on February 15th& 16th, 2013 at Department of Science and Humanities, SreeNarayanaGurukulam College of Engineering, Kadayiruppu, Kolenchery |
| 36. | Development of photocatalytic efficient palladium loaded titania nanostructures, T. Suprabha, Suresh Mathew , National Seminar on Nano science and Technology on February 15th& 16th, 2013 at Department of Science and Humanities, Sree Narayana Gurukulam College of Engineering, Kadayiruppu, Kolenchery |
| 37. | Invited Talk on Photocatalysis of Nanotitania in National Seminar on Nano science and Technology on February 15th& 16th, 2013 at Department of Science and Humanities, SreeNarayanaGurukulam College of Engineering, Kadayiruppu, Kolenchery(Suresh Mathew) |
| 38. | Design of hormone selective membrane for the recognition of testosterone, Anju Augustine & B. Mathew . 25th Kerala science congress Thiruvananthapuram KSCSTE, January, 2013 |
| 39. | Testosterone receptopr bindig mimic constructed using molecular imprinted membranes, Anju Augustine & B. Mathew . International Conference on Asian Polymer Association, Punjab University, February 21-23, 2013. |
| 40. | Synthesis and Characterisation of Anti-tumour Drug Imprinted Polymer on Multi-Walled Carbon Nanotubes, Sooraj M. P & B. Mathew . International Conference on Multidisciplinary Frontiers of Medicinal Chemistry: Synthesis, Molecular biology & Technology SASTRA University, Thanjavur, January 18-19, 2013. |
| 41. | Artificial Receptor Systems on Multi-Walled Carbon Nanotube for Anti-Tumour Drug recognition: Synthesis, Characterisation & Optimization, Sooraj M. P & B. Mathew . The India-Israel Meeting on Material science and Nanoscience (IIMMN-2013), Centre for Nanoscience and Technology, Mahatma Gandhi University Kottayam, January 18-19, 2013. |
| 42. | Molecularly Imprinted Polymer on Multi-Walled Carbon Nanotube for Cimetidine Recognition, Sooraj M. P & B. Mathew . National seminar on Nanoscience and Technology, Sree Narayana College of Engineering, Ernakulam, February 15-16, 2013. |
| 43. | Synthesis and Characterisation of Anti-tumour Drug Tailored Molecularly Imprinted Polymer on Multi-Walled Carbon Nanotubes, Sooraj M. P & B. Mathew . International Conference on Asian Polymer Association Punjab University, February 21-23, 2013. |



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| 44. | Tailoring of Sorbents with Enhanced Chiral Recognition Properties by Molecular Imprinting Approach on Multiwalled Carbon Nanotubes, Sajini T, Rohini Ashok & Beena Mathew . International Conference on Asian Polymer Association Punjab University, February 21-23, 2013. |
| 45. | Molecular Imprinting Approach on Multiwalled Carbon Nanotubes for the Design of Enantioselective Sorbents for D-Mandelic Acid, Sajini T, Rohini Ashok & Beena Mathew , CTriC-2013 Cochin University, March 22-23, 2013. |
| 46. | Molecularly Imprinted Polymer on Multi-Walled Carbon Nanotubes for Cimetidine Recognition: Synthesis and Characterisation, Sooraj M. P & B. Mathew First International Conference on Advanced Nanocomposite for Construction Materials (ICNC 2013), M.G. University, Kottayam, March 12-14, 2013. |
| 47. | Recognition of 5-Fluoro uracil (5- FU) by multiwalled carbon nanotubes, Jeena Abraham & B.Mathew . Indo-Israel International conference Nanoscience and Mahatma Gandhi University, Kottayam, 2013. |
| 48. | Fabrication of multiwalled carbon nanotubes based on the molecularly imprinted polymers for 5-Fluoro uracil recognition, Jeena Abraham & B. Mathew International Conference on Asian Polymer Association Punjab University, February 21-23, 2013. |
| 49. | Microwave assisted synthesis of starch stabilized silver nano particles and its catalytic and antibacterial activity studies, Siby Joseph & B. Mathew . Indo-Israel International conference Centre for Nanoscience and Technology, Mahatma Gandhi University Kottayam, January 18-19, 2013. |
| 50. | Removal of toxic metal ions from simulated waste water by solid phase extraction using hydrophilic semi-interpenetrating polymer networks, Shiby Susan Kuriakose & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012. |
| 51. | Crosslinked aminopolyacrylamide supported Rose Bengal as polymeric photosensitizer, Gigymol M. G & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012. |
| 52. | Design of Copper Ion Selective Polymers with Enhanced Selectivity and Specificity, Bindu M. S & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012. |
| 53. | Prof. Sabu Thomas , 2013 Feb, Invited Speaker, Adam Mickiewicz University, Poznan, Poland |
| 54. | Effect of crosslinking on the reactivity of Polyacrylamide-supported chromates, Suma Bino Thomas & B. Mathew . UGC sponsored national seminar on Modern trends in Organic Chemistry, Baselius College, Kottayam, 2012. |
| 55. | Design of molecular imprinted polymers with selectivity towards of L-phenyl lactic acid, Smitha K. R & B.Mathew . UGC sponsored national seminar on Modern trends in Organic Chemistry, Baselius College, Kottayam, 2012. |
| 56. | Development of a new chitosan IPN as a chelating agent for environmental application Shiby Susan Kuriakose & Beena Mathew . Kerala Science Congress, Rubber Board, Kottayam, 2012 |
| 57. | Cooperative catalysis of a transition state analogue (TSA) imprinted polymer for hydrolytic reaction of amino acid esters, Deepthi K. P & B. Mathew . UGC sponsored national seminar on Modern trends in Organic Chemistry Baselius College, Kottayam, 2012 |
| 58. | A Transition State Analogue Imprinted Polymer as an Efficient Catalyst for Amino Acid Ester Hydrolysis, Deepthi K. P & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012. |



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| 59. | Fabrication of multiwalled carbon nanotubes based on the molecularly imprinted polymers for 5-Fluoro uracil recognition, Jeena Abraham & B. Mathew International Conference on Asian Polymer Association Punjab University, February 21-23, 2013. |
| 60. | Microwave assisted synthesis of starch stabilized silver nano particles and its catalytic and antibacterail activity studies, Siby Joseph & B. Mathew . Indo-Israel International conference Centre for Nanoscience and Technology, Mahatma Gandhi University Kottayam, January 18-19, 2013 |
| 61. | Removal of toxic metal ions from simulated waste water by solid phase extraction using hydrophilic semi-interpenetrating polymer networks, Shiby Susan Kuriakose & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012 |
| 62. | Crosslinked aminopolyacrylamide supported Rose Bengal as polymeric photosensitize, Gigymol M. G & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012. |
| 63. | Design of Copper Ion Selective Polymers with Enhanced Selectivity and Specificity, Bindu M. S & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012. Prof. Sabu Thomas , 2013 Feb, Invited Speaker, Adam Mickiewicz University, Poznan, Poland |
| 64. | Effect of crosslinking on the reactivity of Polyacrylamide-supported chromates, Suma Bino Thomas & B. Mathew . UGC sponsored national seminar on Modern trends in Organic Chemistry, Baselius College, Kottayam, 2012. |
| 65. | Design of molecular imprinted polymers with selectivity towards of L-phenyl lactic acid, Smitha K. R & B.Mathew . UGC sponsored national seminar on Modern trends in Organic Chemistry, Baselius College, Kottayam, 2012. |
| 66. | Development of a new chitosan IPN as a chelating agent for environmental application Shiby Susan Kuriakose & Beena Mathew . Kerala Science Congress, Rubber Board, Kottayam, 2012 |
| 67. | Cooperative catalysis of a transition state analogue (TSA) imprinted polymer for hydrolytic reaction of amino acid esters, Deepthi K. P & B. Mathew . UGC sponsored national seminar on Modern trends in Organic Chemistry Baselius College, Kottayam, 2012 |
| 68. | A Transition State Analogue Imprinted Polymer as an Efficient Catalyst for Amino Acid Ester Hydrolysis, Deepthi K. P & Beena Mathew . Frontiers in Chemical Sciences FICS2012 IIT, Guwahati, Nov 27-29, 2012 |
| 69. | Enantioselectivity of Chymotrypsin Mimic in Amidolysis of dipeptides: Divya Mathew, Benny Thomas and K. S. Devaky ; International Conference on Advanced in Materials and its applications, Alphonsa College ,Palai, 26- 28 March 2014. |
| 70. | Study on the catalytic Activity of Transition State Analogue imprinted Enzyme Mimic and Evaluation of the Imprinting Effect in the hydrolysis of Dipeptides: National Seminar on Advances in Nanomaterials and Polymers, Divya Mathew, Benny Thomas and K. S. Devaky , Bharatha Mata College, Thrikkakkara, 11 & 12 March 2014 |
| 71. | Preparation and catalytic activity of TSA imprinted polymer for the hydrolysis of amino acid esters, Christy Philip and K.S. Devaky , 23rd Swadeshi Science Congress, Kottayam |
| 72. | Catalytic Amidolysis of Methyl Ester of N-t-Butyloxycarbonyl-O-Benzyltyrosyl Glycine using Polymer-Supported Transition State Analogues as Chymotrypsin Mimic: Divya Mathew, Benny Thomas and K. S. Devaky ; National Seminar on Recent Advances in Material Science, NSS College, Vazhoor 4 & 5 March 2014. |



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| 73. | Polymer Anchored Transition State Analogues for Amidolysis: Divya Mathew, Benny Thomas and K. S. Devaky ; Proceedings of the National Seminar on Emerging Trends in Polymeric Materials, Christian college Chengannur , 23 & 24 January 2014. |
| 74. | Solid phase synthesis of peptoids and. their metal ion binding properties, Geetu Joseph and K. S. Devaky ; 04-016 26th Kerala Science congress , Wayanad 28-31 January, 2014 |
| 75. | Invited talk on “Fundamentals and Applications of Pericyclic Reactions” at M.E.S College, Nedumkandam, Kerala in a National Seminar on “Conducting materials probing methods: Novel properties and Emerging applications on 19th December 2013 (S.Anas) |
| 76. | A.M. Rouf, J. Tibbelin, B. O. Jahn, S. Anas , R. Emanuelsson, K.Loizinski, H.Ottosson. Efficient and convenient acid catalyzed hypersilyl protection of alcohols and thiols by tris(trimethylsilyl)silyl-N,N-dimethylmethaneamide. a paper presentation at 245th ACS |
| 77. | National Meeting and Exposition. New Orleans, Louisiana, USA April 7-11, 2013, #pub312. (S.Anas) |
| 78. | Paper presented entitled “Our research practices: A re-search” in the national seminar on ”Research Education in Kerala: Trends/Gaps” organized by Society for Educational (S.Anas) |
| 79. | Research in connection with Kerala Education Congress conducted by SIO Kerala Chapter held at Thiruvananthapuram on 16-17 November 2013. (S.Anas) |
| 80. | Invited talk on “Emerging Trends in Organic Chemistry” at T.K.M.M. College, (S.Anas) |
| 81. | Nangiarkulangara, Harippad, as part of the College seminar series Darsan-2014 on 18th February 2014. (S.Anas) |
| 82. | Polyacrylonitrile based molecular imprinted membranes for the detection of progesterone in human urine, Anju Augustine & Beena Mathew . The International Conference on Advanced Materials and its Applications (ICAMA 2014, Alphonsa College, Pala, March 26-28, 2014. |
| 83. | A facile approach for the separation of chiral molecules using molecular imprinting technique on multiwalled carbon nanotubes, Sajini T & Beena Mathew . The International Conference on Advanced Materials and its Applications (ICAMA 2014), Alphonsa College, Pala, March 26-28, 2014. |
| 84. | Molecularly imprinted polymers of 5-Fluoro uracil surface based on multiwalled carbon nanotube, Jeena Abraham & Beena Mathew . ICMCT-2014 Vellore Institute of Tecnology, Vellore, March 10-12, 2014. |
| 85. | Tailoring of enantio-selective nanosorbents using molecular imprinting technology, Sooraj.M.P & Beena Mathew . National Seminar on Emerging Trends in Polymeric Materails (ETPM 2014) Department of Chemistry, Christian College, Chengannur, January 23-24, 2014 |
| 86. | Synthesis and characterization of vinyl functionalized multiwalled carbon nanotub basedmolecularly imprinted polymer for the separation of 5-Fluoro uracil, Jeena Abraham & Beena Mathew . National Seminar on Emerging Trends in Polymeric Materails (ETPM 2014), Department of Chemistry, Christian College, Chengannur, January 23-24, 2014. |
| 87. | Polyacrylonitrile based molecular imprinted membranes for the detection of progesterone in human urine, Anju Augustine & Beena Mathew . The International Conference on Advanced Materials and its Applications (ICAMA 2014), Alphonsa College, Pala, March 26-28, 2014. |



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| 88. | Enantiomeric separation of L-DOPA by structure-specific sorbents based on nanostructure, Sooraj.M.P & Beena Mathew . The International Conference on Advanced Materials and its Applications (ICAMA 2014), Alphonsa College, Pala, March 26-28, 2014. |
| 89. | pH Triggered vesicle and biodegradable polymersomes based on PEG-b-PCL grafted poly(α -amino ester) for anti-cancer drug delivery, Jeena Abraham & Beena Mathew . The International Conference on Advanced Materials and its Applications (ICAMA 2014), Alphonsa College, Pala, March 26-28, 2014. |
| 90. | Synthesis of silver nanoparticles by microwave irradiation and investigation of their catalytic activity, Siby Joseph & B. Mathew . 3rd International science congress, International science congress association, December 8-9, 2013 |
| 91. | Microwave assisted synthesis of silver nanoparticles and evaluation of their catalytic activity, Siby Joseph & B. Mathew . National conference on recent trends in material science & technology Department of Chemistry, Indian Institute of space science & technology, July 10-12, 2013. |
| 92. | Fabrication of molecularly imprinted sorbents based on multiwalled carbon nanotubes for selective and sensitive determination of tyramine, Rohini Ashok & B. Mathew . National Conference on Recent Trends in Materials Science & Technology, NCMST-2013 IIST, Thiruvananthapuram, Kerala, India, July 10-12, 2013. |
| 93. | Tailoring of Recognition Sites for Tyramine using Molecular Imprinting Approach on Multiwalled Carbon Nanotube, Rohini Ashok & B. Mathew . International Conference on Advances in Material Science ICAMS 2013, Post Graduate Department of Chemistry, Sree Sankara College Kalady, Kerala, India, October 23-24, 2013 |
| 94. | Tailoring of sorbents for the selective recognition of tyramine based on molecular imprinting approach on multiwalled carbon nanotube, Rohini Ashok & B. Mathew . Science Congress, ISC-2013 Karunya University, Coimbatore, Tamil Nadu, India, December 8-9, 2013. |
| 95. | Prof. Sabu Thomas , Senior Visiting Professor, University Technology Mara (UiTM), Malaysia |
| 96. | Prof. Sabu Thomas , 2014 June, Visiting Professor, Warsaw University of Technology, Warsaw, Poland |
| 97. | Prof. Sabu Thomas , 2014 March, Plenary Speaker, University of Basra, Iraq |
| 98. | Prof. Sabu Thomas , 9th International Materials Technology & Conference (IMTCE2014)-Masterclass at PWTC, Kuala Lumpur., Invited Speaker, University Tehcology, Mara, Malaysia |
| 99. | Prof. Sabu Thomas , 2014, Invited Speaker, Warsaw University of Tehcology, Warsaw, Poland |
| 100. | Prof. Sabu Thomas , 2014 , Invited Speaker, Durban University of Tehcnology, Durban, South Africa |
| 101. | Prof. Sabu Thomas , 2014, July, Invited Speaker, CSIR, Port Elizabeth, South Africa |
| 102. | Prof. Sabu Thomas , 2014 July, Invited Speaker, Cape Peninsula University of Tehcology, Cape Town, South Africa |
| 103. | Prof. Sabu Thomas , 2014, Invited Speaker, Spain |
| 104. | Prof. Sabu Thomas , Invited Speaker, IPC2014 Secretariat, The Society of Polymer Science, Japan (SPSJ), Tokyo Japan |



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| 105. | Invited Talk , Prof.Sabu Thomas , Third International Conference on Recycling and Reuse of Materials (ICRM 2014): April 2014 |
| 106. | Invited Talk , Prof.Sabu Thomas , First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): August 2014. |
| 107. | Prof.Sabu Thomas , Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : October 2014 |
| 108. | Invited Talk, Prof.Sabu Thomas , Second International Conference On Nanostructured Materials and Nanocomposites (ICNM 2014): December 2014 |
| 109. | Invited Talk , Prof.Sabu Thomas International Symposium on Advanced Polymeric Materials 2014 (ISAPM 2014) held at Putra World Trade Centre, Kuala Lumpur, Malaysia |
| 110. | Certificate of Appreciation to Prof. Sabu Thomas , Invited Speaker International Polymer technology Conference and Exhibition 2013, Organised by Faculty of Applied Science, UiTM., Malaysia and German Alumni Association Malaysia. |
| 111. | Prof.Sabu Thomas ,Invited Speaker, National Seminar on Nanotechnology and renewable Energy, 2013.Organised by K.E .College Mananam |
| 112. | Prof.Sabu Thomas , - Chief Guest And Delivered Keynote Speech In A 3 Day Workshop On Advanced Materials And Modern Manufacturing Techniques (AMMMT-2014)On "Nano Materials For Futuristic Applications organized by Saintgits College of Engineering in association with ISTE Saintgits chapter |
| 113. | Invited Talk by Prof.Sabu Thomas , National Conference on Recent trends in Material Science and Technology,2013 Organised by Dept.of Chemistry,Indian Institute of Space science and Technology,Govt of India,Valiayamala |
| 114. | Oral presentation by Shainu Koshy,.International Symposium on Advanced Polymeric Materials (Prof.Sabu Thomas) |
| 115. | Anu Tresa Sunny Presented a poster by POLYCHAR 22 - 11 April 2014, Stellenbosch, South Africa (Prof.Sabu Thomas) |
| 116. | (ISAPM 2014) organized by Institute of Materials, Malaysia (IMM), held at Putra World Trade Centre, Kuala Lumpur, Malaysia |
| 117. | Oral presentation by Hanna J Maria for paper entitled “ The role of nanoclay in harmonizing the properties of immiscible and incompatible natural rubber/nitrile rubber blends in . International Symposium on Advanced Polymeric Materials 2014 (ISAPM 2014) held at Putra World Trade Centre, Kuala Lumpur, Malaysia, (Prof.Sabu Thomas) |
| 118. | Presented a poster Hanna J Maria in International Conference on Advanced Polymeric Materials (ICAPM-2013) organized by the International Unit of Macromolecular Research, Mahatma Gandhi University, Kottayam, Kerala, India during October 11, 12 and 13, 2013 (Prof.Sabu Thomas). |
| 119. | International Conference on Frontiers of Mass Spectrometry ICMS 2013 on 6-9 September, 2013 at Kottayam, (Dr. S. Anas) |
| 120. | National Colloquium on Recent Trends in Organic and Bioorganic Chemistry on 24-26 October,2013 at Calicut University, Calicut, (Participation, (Dr. S. Anas)) |
| 121. | National Conference on Heavy Metals in Environment HME 2013 on 28-30 November, 2013 at Kottayam (Participation, (Dr. S. Anas)) |
| 122. | National Symposium on Recent Advances in Macromolecular Science and Engineering on 30-31 December, 2013 at Kottayam (Participation, (Dr. S. Anas)) |
| 123. | 26th Kerala Science Congress at Kerala Veterinary University, on 28-31 January, 2014 at Pookode Wayanad Participation, (Dr. S. Anas) |



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| 124. | International Conference on Nano Biomaterials Nanobio 2014 on 4-6 July, 2014 at Kottayam (Participation, (Dr. S. Anas)) |
| 125. | National Colloquium on Recent Trends in Organic and Bioorganic Chemistry on 18-20 July, 2014 at Kottayam(Participation, (Dr. S. Anas)) |
| 126. | National Symposium on Transcending Frontiers in Organic Chemistry 2014 at NIIST Trivandrum 9-11 October 2014 (Participation (Dr. S. Anas)) |
| 127. | 3rd Euro-India International Conference on Nanomedicine and Tissue Engineering ICNT 2013, 9-11Aug, 2013, Kottayam (Participation (Dr. S. Anas)) |
| 128. | Preparation of Functionalized Polystyrene-co-Polysioprene Star Gel by Photochemical RAFT Polymerization at Ambient Temperature. Raju Francis and Deepa K. Baby. APA International Congress on Advances in Human Healthcare Systems, "Healthcare India 2012", February 20-23, 2012, New Delhi, India. |
| 129. | N-Methylolmaleimide – A Comonomer Which Reversibly Changes the LCST Value of Thermo Sensitive Polymers". Raju Francis , Soumya Sasikumar and Deepa K. Baby. World Congress on Engineering and Technology (CET 2012). Beijing, China from Oct. 26 to Oct. 28, 2012. |
| 130. | Synthesis of Organic-Inorganic Hybrid Materials- Their Morphological Studies Using Scanning Electron Microscopy". Geethy P. Gopalan, Anjaly Sivadas and Raju Francis . DAE-BRNS 4 th Interdisciplinary Symposium on Material Chemistry, ISMC-2012 held at BARC, Mumbai, December 11-15, 2012. |
| 131. | N-Methylol Maleimide – A Comonomer Which Causes Changes in Morphological Behaviour of Thermosensitive Copolymers". Soumya Sasikumar, Deepa K Baby and Raju Francis . DAE-BRNS 4 th Interdisciplinary Symposium on Material Chemistry, ISMC-2012 held at BARC, Mumbai, December 11-15, 2012 |
| 132. | Reactive Blending of Star Block Copolymers with Epoxy Precursor - TEM and SEM Analysis. Amrutha P Thankachan, Deepa K Baby and Raju Francis . DAE-BRNS 4 th Interdisciplinary Symposium on Material Chemistry, ISMC- 2012 held at BARC, Mumbai, December 11-15, 2012 |
| 133. | Preparation of Functionalized Polystyrene-co-Polysioprene Star Gel by Photochemical RAFT Polymerization at Ambient Temperature. Raju Francis and Deepa K. Baby. APA International Congress on Advances in Human Healthcare Systems, "Healthcare India 2012", February 20-23, 2012, New Delhi |
| 134. | N-Methylolmaleimide – A Comonomer Which Reversibly Changes the LCST Value of Thermo Sensitive Polymers. Raju Francis , Soumya Sasikumar and Deepa K. Baby. World Congress on Engineering and Technology (CET 2012). Accepted for presentation. Beijing, China from Oct. 26 to Oct. 28, 2012. |
| 135. | Synthesis of Organic-Inorganic Hybrid Materials- Their Morphological Studies Using Scanning Electron Microscopy. Geethy P. Gopalan, Anjaly Sivadas and Raju Francis . DAE-BRNS 4 th Interdisciplinary Symposium on Material Chemistry, ISMC-2012 held at BARC, Mumbai, December 11-15, 2012 |
| 136. | "N-Methylol Maleimide – A Comonomer Which Causes Changes in Morphological Behaviour of Thermosensitive Copolymers". Soumya Sasikumar, Deepa K Baby and Raju Francis . DAE-BRNS 4 th Interdisciplinary Symposium on Material Chemistry, ISMC-2012 held at BARC, Mumbai, December 11-15, 2012 |
| 137. | Complexation and Efficient Removal of Metal ions by Tailor Made Polymeric Materials". Deepa K. Baby, Soumya Sasikumar and Raju Francis . International Conference on Advanced Functional Materials, ICAFM -2014 to be held in Trivandrum during Feb 19-21, 2014 |



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| 138. | N-Methylolmaleimide – A Comonomer Which Reversibly Changes the Thermo Sensitive Properties of Polymers” by Raju Francis , Soumya Sasikumar and Deepa K. Babyhas been accepted for oral presentation in the International Conference On Applied Chemistry (ICONAC) to be held on 5-7 March 2014 at Fiji National University (FNU), Suva, Fiji. |
| 139. | Autocatalytic Sol-gel synthesis of Organic-Inorganic Hybrid Material”. Geethy P Gopalan and Raju Francis . DAE-BRNS 5 th Interdisciplinary Symposium on Material Chemistry, ISMC-2014, BARC, Mumbai, December 11-15, 2014. |
| 140. | Synthesis, Morphological Studies and Mechanical Properties of Star Polystyrene - Epoxy Blends. Anjaly Sivadas, Deepa K.Baby and Raju Francis , DAE-BRNS 5 th Interdisciplinary Symposium on Material Chemistry, ISMC-2014, BARC, Mumbai, December 11-15, 2014. |
| 141. | Role of Initiators on Chain End Selectivity of Poly(N-Isopropylacrylamide) - Exfoliation of Carbon Nanotubes”. Nidhin Joy and Raju Francis , DAE-BRNS 5 th Interdisciplinary Symposium on Material Chemistry, ISMC-2014, BARC, Mumbai, December 11-15, 2014. |
| 142. | Prof. Sabu Thomas , Invited Speaker, National Seminar on Current Trends in Chemistry CtriC 2014, held at Cochin University of Science and Technology, Department of Applied Chemistry, Kochi. |
| 143. | Prof. Sabu Thomas , Invited Speaker, National Seminar on Recent Approaches in Biochemical Research organised by Dept. of Biochemistry, University of Kerala, Thiruvanthapuram |
| 144. | Prof. Sabu Thomas , Invited Speaker, National Seminar on Perspectives in Material Science- POLYMACS- 14 sponsored by KSCSTE and organised by Dept of Polymer Chemistry, Marthoma College of Science and Technology, AYUR on Nov 2014. |
| 145. | Prof. Sabu Thomas , Invited Speaker, 2nd International Conference of Chemistry, organized by Department of Chemistry College of Science, University of Basrah, Iraq |
| 146. | Invited Talk by Prof. Sabu Thomas , National Conference on Recent trends in Material Science and Technology, 2015 Organised by Dept. of Chemistry, Indian Institute of Space science and Technology, Govt of India, Valiayamala |
| 147. | National Technology Day-On 12th May 2015-Chief Guest And Delivered Keynote Speak On "Nano Materials For Electronic Applications" organized by Saintgits College of Engineering in association with IEEE SSCS Saintgits SB chapter (Prof. Sabu Thomas) |
| 148. | Prof. Sabu Thomas Invited speaker, Fourth international Conference on Natural Polymers and Biomaterials (ICNP 2015) : 10-12 April 2015 |
| 149. | Prof. Sabu Thomas , 2015 March CNRS, Strasbourg, France |
| 150. | Prof. Sabu Thomas , 2015 March Institute for Polymer Research Dresden (IPF), Dresden, Germany |
| 151. | Prof. Sabu Thomas , 2015 March Visiting Professor, LIMATB, France |
| 152. | Prof. Sabu Thomas , 2015 March Institute for Polymer Research Dresden (IPF), Dresden, Germany |
| 153. | Prof. Sabu Thomas , 2015 Invited Speaker, Singapore |
| 154. | Prof. Sabu Thomas , 2015 University of Graz, Austria |
| 155. | Prof. Sabu Thomas , 2015 conference Turkey |
| 156. | Hydrothermal Synthesis of Magnetic Nanostructures using Ionic Liquid”, Aswathy joseph, Vishnu Sivan, Suresh Mathew , National seminar ;Frontiers of Polymers and |



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| | Advanced Materials (FPAM-2014); at Department of Chemistry , University of Kerala, 5th to 7th November 2014 |
| 157. | Influence of Palladium Loading on the Degradation Property of Titania Nanostructures”; Suprabha T, Suresh Mathew , International Conference on “Emerging Trends in Engineering and Management (ICETEM-14)” on December 30th& 31st, 2014 at SreeNarayanaGurukulam College of Engineering Kadayiruppu, Kolenchery |
| 158. | A nano Calcium metal organic framework constructed from 1, 2-phenylenediacetic acid: Synthesis, luminescence and thermalstability” - Seetharaj R, Vandana P.V, Tony Francisand Suresh Mathew in the National Seminar on Modern Trends in Chemistry organized by Department of Chemistry, St. Joseph’s college, Irinjalakuda, January 23-24, 2015. |
| 159. | Synthesis and characterization of cerium metal organic frameworks constructed by pyridine 2, 6 dicarboxylicacid” -Vandana P.V, Seetharaj R, Sethulakshmi P and Suresh Mathew in the National Seminar on Modern Trends in Chemistry organized by Department of Chemistry, St. Joseph’s college,Irinjalakuda, January 23-24, 2015. |
| 160. | Advanced thermo analytical techniques as a diagnostic tool for phase transition studies”- Suresh Mathew , National Conference on Advanced Technologies for material processing and diagnostics organized by Indian Society of Analytical Scientists (ISAS)- Kerala chapter, September 18-20, 2014 |
| 161. | Photocatalytic Organic Pollutant Degradation in Iron based Nano Metal organic frameworks under U.V. light irradiation”-Vandana P.V Seetharaj R and Suresh Mathew in the National Conference on Materials Science and Technology organized by Department of Chemistry, Indian Institute of Space and Technology, Trivandrum, 2015 |
| 162. | Catalytic Activity of Self Assembled Nano CuO on the Thermal Decomposition of Ammonium Nitrate”– Jisna Jos and Suresh Mathew in the National Conference on Materials Science and Technology organized by Department of Chemistry, Indian Institute of Space and Technology, Trivandrum,, 2015 |
| 163. | Catalytic Activity of an Enzyme Mimic Molecular Imprinted Polymer for the Hydrolysis of Amino Acid Esters: Christy Philip and K. S. Devaky 27th Kerala Science congress 26-29 January,201 |
| 164. | Catalytic Amidolysis of Peptides by Chymotrypsin Mimics- Effect of Metal Ion Complexation on Imprinting: Divya Mathew, Benny Thomas and K. S. Devaky ; 27th Kerala Science congress 27-29 January,2015 |
| 165. | Fabrication of Transition State Analogue (TSA) Sites on Multiwalled Carbon Nanotubes for the Hydrolysis of Amino Acid Esters: Christy Philip and K. S. Devaky , International Conference on Green Chemistry, Catalysis, Energy and Environment, Goa University, Goa, 22-24 January, 2015 |
| 166. | Oxidation of Diphenylcarbinol by Polymer Supported Dichromate Reagent: Benny Thomas , Divya Mathew and K.S. Devaky ; UGC sponsored National Seminar on Chemistry for Tomorrow’s World, B.K. College, Amalagiri, Kottayam, 22-24 January, 2015. |
| 167. | Catalytic Activity of an Enzyme Mimic Molecular Imprinted Polymer for the Hydrolysis of Amino Acid Esters: Christy Philip and K. S. Devaky 27th Kerala Science congress 26-29 January,2015 |
| 168. | Catalytic Amidolysis of Peptides by Chymotrypsin Mimics- Effect of Metal Ion Complexation on Imprinting: Divya Mathew, Benny Thomas and K. S. Devaky ; 27th Kerala Science congress 27-29 January,2015 |



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| 169. | National Workshop on Nuclear Magnetic resonance Spectroscopy: Theory and Applications organized by Srinivasa Ramanujan Institute for Basic Sciences held at IIRBS, M. G. University, Kottayam, 10-13 September, 2014 (S. Anas) Invited talk on “Developments in Organo- <i>Transition metal chemistry</i> ” at SN College, Nattika, Kerala as part of the C.V. Sudhi memorial lecture series on 28 th March 2015(S. Anas) |
| 170. | Invited talk on “ <i>Transition metal mediated organic synthesis</i> ” at Govt. College Kasaragod, Kerala in a National Seminar on “Recent Challenges and Progresses in Chemistry (RCPC-2014) on 20 th October 2014. (S. Anas) |
| 171. | Invited talk on “ <i>Scientific Research: Methodology/Trends/Gaps</i> ” at St. Joseph’s Training College, Mannanam, Kottayam on 28 th February 2014 in connection with the National Science day celebrations. (S. Anas) |
| 172. | Invited talk on “Scientific Research: Trends/Gaps” at Kerala University College of Teacher Education, Kayamkulam, Kerala in the National Seminar on “Acculturation of Scientific and Social Self”: Nurturing Scientific Temper as a Way of Life” on 6 th February 2014. (S. Anas) |
| 173. | Invited talk on “Transition metal mediated organic synthesis” at Govt. College Kasaragod, Kerala in a National Seminar on “Recent Challenges and Progresses in Chemistry (RCPC-2014) on 20 th October 2014. (S. Anas) |
| 174. | Novel protocol for Ullmann C-O coupling reactions under aerobic conditions A. M. Thomas and GAnilkumar pp 15, Proceedings of the National Seminar on Recent Trends in Chemistry 6-7 Nov 2014, Baselius College, Kottayam |
| 175. | Novel Copper-catalyzed Sonogashira type coupling reactions A. Sujatha and G Anilkumar pp17, Proceedings of the National Seminar on Recent Trends in Chemistry 6-7 Nov 2014, Baselius College, Kottayam |
| 176. | Iron-catalyzed thioetherification of thiols with aryl halides K. S. Sindhu and G Anilkumar pp 20, Proceedings of the National Seminar on Recent Trends in Chemistry 6-7 Nov 2014, Baselius College, Kottayam |
| 177. | A General method for the formation of C-S bonds using Zn(II)-catalysts A. P. Thankachan and G Anilkumar pp 37, Proceedings of the National Seminar on Recent Trends in Chemistry 6-7 Nov 2014, Baselius College, Kottayam |
| 178. | A Novel protocol for the formation of C-S bonds using Zn(II)-catalysts A. P. Thankachan and G. Anilkumar pp 34, Proceedings of the 13 th Prof. K. V. Thomas Endowment National seminar New Frontiers in Chemical Research 4-5 Dec 2014 S. H. College, Cochin |
| 179. | Novel copper-catalyzed Sonogashira type C-C bond forming reactions A. Sujatha and G. Anilkumar pp. 77, Proceedings of the 13 th Prof. K. V. Thomas Endowment National seminar New Frontiers in Chemical Research 4-5 Dec 2014 S. H. College, Cochin |
| 180. | Novel copper-mediated Carbon-heteroatom coupling reactions A. M. Thomas and G. Anilkumar pp 81, Proceedings of the 13 th Prof. K. V. Thomas Endowment National seminar New Frontiers in Chemical Research 4-5 Dec 2014 S. H. College, Cochin |
| 181. | An efficient iron catalyzed cross coupling reaction of thiols with aryl halides Sindhu K S and G. Anilkumar pp 42, Proceedings of the 27 th Kerala Science Congress 27-29 January 2015 at Alappuzha |
| 182. | Novel Zinc catalyzed C-S cross coupling reactions of aryl halides with aryl thiols Amrutha P Thankachan and G. Anilkumar pp 47, Proceedings of the 27 th Kerala Science Congress 27-29 January 2015 at Alappuzha |



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| 183. | Novel protocol for Ullmann diaryl ether synthesis under aerobic conditions Anns Maria Thomas and G. Anilkumar pp 57, Proceedings of the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha |
| 184. | CuI/trans 1,2-diaminocyclohexane-catalysed coupling reactions of aryl halides with terminalalkynes, Asha Sujatha and G. Anilkumar pp 46, Proceedings of the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha. |
| 185. | Poster presentation P. Harinarayanan, G. Anilkumar , S. Thomas, at the Third international conference on Natural polymers, Biopolymers, Bio materials, their composites, Blends and Gels ICNP 2012, Kottayam, October 26-28, 2012, pp 204 (P- 76) |
| 186. | Poster presentation at the international conference on advanced polymeric materials (ICAPM 2013) on 11-13 October 2013 at Kottayam, India. Harinarayanan P. Sari P. S., Anilkumar G and Sabu Thomas pp 172 (P- 3) |
| 187. | Poster presentation at National symposium on Transcending Frontiers in Organic Chemistry 2014 at NIIST Trivandrum 9-11 October 2014 A. P. Thankachan and G. Anilkumar pp 113 |
| 188. | Poster presentation at National symposium on Transcending Frontiers in Organic Chemistry 2014 at NIIST Trivandrum 9-11 October 2014 A. M. Thomas and G. Anilkumar pp 115 |
| 189. | Poster presentation at National symposium on Transcending Frontiers in Organic Chemistry 2014 at NIIST Trivandrum 9-11 October 2014 Asha. S and G. Anilkumar pp 121 |
| 190. | Poster presentation An efficient iron catalyzed cross coupling reaction of thiols with aryl halides Sindhu K S and G. Anilkumar at the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha |
| 191. | Poster presentation CuI/trans 1,2-diaminocyclohexane-catalysed coupling reactions of aryl halides with terminalalkynes Asha Sujatha and G. Anilkumar at the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha pp 46 |
| 192. | Poster presentation Novel Zinc catalyzed C-S cross coupling reactions of aryl halides with arylthiols Amrutha P Thankachan and G. Anilkumar at the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha pp 47 |
| 193. | Poster communication Novel protocol for Ullmann diaryl ether synthesis under aerobic conditions Anns Maria Thomas and G. Anilkumar at the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha pp 57 |
| 194. | Poster presentation at the 25th Swadeshi Science Congress 16-18 December 2015, Kaladi, Kerala Amrutha P Thankachan and G. Anilkumar pp 73 |
| 195. | Poster communication at the 25th Swadeshi Science Congress 16-18 December 2015 at Kaladi, Kerala Anns Maria Thomas, Asha. S and G. Anilkumar pp 74 |
| 196. | Poster communication at the 25th Swadeshi Science Congress 16-18 December 2015 at Kaladi, Kerala Sindhu K. S and G. Anilkumar pp 94 |
| 197. | Novel protocol for Ullmann C-O coupling reactions under aerobic conditions A. M. Thomas and G. Anilkumar pp 15, Proceedings of the National Seminar on Recent Trends in Chemistry 6-7 Nov 2014, Baseliuss College, Kottayam |
| 198. | Novel Copper-catalyzed Sonogashira type coupling reactions A. Sujatha and G. Anilkumar pp 17, Proceedings of the National Seminar on Recent Trends in Chemistry 6-7 Nov 2014, Baseliuss College, Kottayam |
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| 200. | A General method for the formation of C-S bonds using Zn(II)-catalysts A. P. Thankachan and Anilkumar pp 37, Proceedings of the National Seminar on Recent Trends in Chemistry 6-7 No 2014, Baselius College, Kottayam |
| 201. | A Novel protocol for the formation of C-S bonds using Zn(II)-catalysts A. P. Thankachan and GAnilkumar pp 34, Proceedings of the 13th Prof. K. V. Thomas Endowment National seminar New Frontiers in Chemical Research 4-5 Dec 2014 S. H. College, Cochin |
| 202. | Novel copper-catalyzed Sonogashira type C-C bond forming reactions A. Sujatha and G.Anilkumar pp 77, Proceedings of the 13th Prof. K. V. Thomas Endowment National seminar New Frontiers in Chemical Research 4-5 Dec 2014 S. H. College, Cochin |
| 203. | Novel copper-mediated Carbon-heteroatom coupling reactions A. M. Thomas and G. Anilkumar pp81, Proceedings of the 13th Prof. K. V. Thomas Endowment National seminar New Frontiers in Chemical Research 4-5 Dec 2014 S. H. College, Cochin |
| 204. | A novel protocol for the synthesis of 2-aryl benzo[b]furans and indoles using Copper catalysis” at the 28th Kerala Science Congress 28-30 January 2016 at Calicut University, Kozhikode, Kerala Anns Maria Thomas, Asha S and Gopinathan Anilkumar pp 2790-2797 |
| 205. | Ultrasonic characterization of 1-Butylpyridinium and 1-Butyl-4-methylpyridinium tetrafluoroborate ionic liquids”, Aswathy Joseph, Suresh Mathew and A. S. Padmanabhan, International Conference on Material Science and Technology, 5 – 8 June 2016, St. Thomas College, Pala |
| 206. | ZnO/Ag/PANI ternary composite for photocatalytic degradation of organic dyes, Marilyn Mary Xavier, P. Radhakrishnan Nair, Suresh Mathew ”, International Conference on Material Science and Technology, 5 – 8 June 2016, St. Thomas College, Pala |
| 207. | Phase modification of ammonium nitrate doped with copper oxide”, Jisna Jos, Vandana P. V. and Suresh Mathew , <i>International Conference on Material Science and Technology</i> , 5 – 8 June 2016, St. Thomas College, Pala. |
| 208. | Systematic investigation of two dimensional cerium metal organic frameworks”, Vandana P. V, Jisna Jos, and Suresh Mathew , International Conference on Material Science and Technology, 5 – 8 June 2016, St. Thomas College, Pala. |
| 209. | Effect of microwave irradiation time on the photocatalytic activity of reduced graphene oxide (rGO)-ZnO nanocomposites under UV light irradiation”, Divya K. S and Suresh Mathew , International Conference on Material Science and Technology, 5 – 8 June 2016, St. Thomas College, Pala. |
| 210. | Synthesis and characterization of cerium metal organic frameworks constructed by pyridine 2,6 dicarboxylic acid” Vandana P.V, Seetharaj R, Sethulakshmi P and Suresh Mathew , National Seminar on Modern Trends in Chemistry, Dept of Chemistry, St Joseph’s College, Jan. 3-4, 2015, Irinjalakuda |
| 211. | Microwave assisted synthesis of Ag/RGO/ZnO nanocomposite with enhanced visible light photoactivity”, Divya K S and Suresh Mathew , Matcon 2016, 14-15 January, 201 |
| 212. | A Nano Calcium Metal Organic Framework constructed from 1,2-phenylenediacetic acid: synthesis, luminescence and thermal stability”, Seetharaj R, Vandana P.V, Tony Francis and Suresh Mathew , National Seminar on Modern Trends in Chemistry, Dept of Chemistry, St Joseph’s College, Jan. 3-4, 2015, Irinjalakuda |
| 213. | Catalytic Activity of Self Assembled Nano CuO on the Thermal Decomposition of Ammonium Nitrate”, Jisna Jos and Suresh Mathew , NCMST 2015, IIST, Trivandrum, July 6-8, 2015, p 104 |



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| 214. | Photocatalytic Organic Pollutant Degradation in Iron based Nano Metal Organic Frameworks under UV Light Irradiation”, P V Vandana, R Seetharaj and Suresh Mathew , NCMST 2015, IIST, Trivandrum, July 6-8, 2015, p 113 |
| 215. | Two Dimensional Cerium Metal organic frameworks Constructed from Pyridine 2, 6 dicarboxylic acid”, Vandana P.V, Seetharaj R and Suresh Mathew , National Seminar on Supramolecules and Nanomaterials : Basic concepts and Architectural Assemblies” on 17-18, November, 2015, Department of Chemistry, Sacred Heart College, Chalakudy. |
| 216. | To Fabricate Iron Metal Organic Framework with Graphene oxide for Photocatalytic applications”, Vandana P.V, Seetharaj R and Suresh Mathew , 25th Swadesi Science Congress, December 16-18, 2015, Sree Sankaracharya University of Sanskrit, Kalady. |
| 217. | “Enhanced visible light photoactivity toward the degradation of Rhodamine B using GR/ZnO nanocomposites”, Divya K S and Suresh Mathew , 25th Swadeshi Science Congress, December 16-18, 2015, Sree Sankaracharya University of Sanskrit, Kalady |
| 218. | Density Functional Theory analysis of CO ₂ capture ability of 1-Butyl-4-methylpyridinium ionic liquids with chloride, bromide and tetrafluoroborate anions”, Aswathy Joseph, Geethu Sasikumar, Stephy Jose, Vibin Ipe Thomas and Suresh Mathew , 25th Swadeshi Science Congress, December 16-18, 2015, Sree Sankaracharya University of Sanskrit, Kalady |
| 219. | Tailoring of chiral sorbents on vinyl functionalized multiwalled carbon nanotubes via molecular imprinting technology, Sajini T. & Beena Mathew , International Conference on Materials for the Millennium (MatCon 2016), Cochin University of Science & Technology, January 13-16, 2016 |
| 220. | Tailoring of nanostructured material for the concentration of heavy metal ions from waste water, Archana Aravind & Beena Mathew , International Conference on Materials for the Millennium (MatCon 2016), Cochin University of Science & Technology, January 13-16, 2016 |
| 221. | Tailoring of molecularly imprinted polymer based sensor for antitumor drug 5-Fluoro uracil, Jaise Mariya George & Beena Mathew , International Conference on Nanomaterials and Nanotechnology (NANO 2015), Centre for Nanoscience and Technology, K.S.R. College of Technology, Tiruchengode, Tamil Nadu, December 7-10, 2015 |
| 222. | Nanostructured sorbents for the removal of heavy metal ions in waste water, Maria Sebastian & Beena Mathew , International Conference on Nanomaterials and Nanotechnology (NANO 2015), Centre for Nanoscience and Technology, K.S.R. College of Technology, Tiruchengode, T. Nadu, December 7-10, 2015 |
| 223. | Tailoring of nanostructured material for the concentration of heavy metal ions from waste water, Archana Aravind & Beena Mathew , International Conference on Nanomaterials and Nanotechnology (NANO 2015), Centre for Nanoscience and Technology, K.S.R. College of Technology, Tiruchengode, Tamil Nadu, December 7-10, 2015 |
| 224. | Green synthesis of silver nanoparticles and evaluation of their cytotoxicity, Priyanka R. N, Bini George, Saranya K .S , Nageswar Reddy M. & Beena Mathew , UGC Sponsored National Conference on Recent Advances in Spectroscopy: A Chemical and Biological Perspective II, Newman College, Thodupuzha, September 14-15, 2015 |



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| 225. | Fabrication of multi walled carbon nanotube based sorbents for L-DOPA recognition and separation from structurally related compounds, Sooraj M.P & Beena Mathew , UGC Sponsored National Conference on Recent Advances in Spectroscopy: A Chemical and Biological Perspective II, Newman College, Thodupuzha, September 14-15, 2015 |
| 226. | Facile synthesis of gold nanoparticles and investigation of their catalytic activity, Siby Joseph & Beena Mathew , 6 th Asian Conference on Colloid and Interface Science (ACCIS 2015), November 24-27, 2015, Nagasaki, Japan |
| 227. | Microwave assisted facile green synthesis of silver nanoparticles and evaluation of their cytotoxicity, Bini George, Priyanka R. N, Saranya K .S, Nageswar Reddy M.& Beena Mathew , 6 th Asian Conference on Colloid and Interface Science (ACCIS 2015), November 24-27, 2015, Nagasaki, Japan |
| 228. | Molecularly imprinted sorbents based on nanostructures for the enantiomeric separation of L-DOPA, Sooraj M.P & Beena Mathew , UGC Sponsored National Seminar on Nanochemistry: Techniques, Advancement and Applications, S.D. College, Alappuzha, October 16, 2015 |
| 229. | Evaluation of the copper ion adsorption properties of modified and unmodified multiwalled carbon nanotubes and charcoal, Sajini T & Beena Mathew , UGC Sponsored National Seminar on Nanochemistry: Techniques, Advancement and Applications, S.D. College, Alappuzha, October 16, 2015 |
| 230. | Synthesis and characterization of molecular imprinted polymer on mwcnt based on free-radical polymerization, Maria Sebastian & Beena Mathew , UGC Sponsored National Seminar on Nanochemistry: Techniques, Advancement and Applications, S.D. College, Alappuzha, October 16, 2015 |
| 231. | Metal ion imprinted alginate network as biosorbent, Girija p & Beena Mathew , UGC Sponsored National Seminar on Nanochemistry: Techniques, Advancement and Applications, S.D. College, Alappuzha, October 16, 2015 |
| 232. | Design of molecularly imprinted Cu(II) ion selective polymers, Bindu M. S & Beena Mathew , UGC Sponsored National Seminar on Nanochemistry: Techniques, Advancement and Applications, S.D. College, Alappuzha, October 16, 2015 |
| 233. | Biodegradable Polymer Vesicles: pH Dependent Polymersome Used as Anti-Cancer Drug Delivery Carrier for 5-Fluoro Uracil, Jeena Abraham & Beena Mathew . Swadesi Science Congress, July 6-8, 2014. |
| 234. | Molecular imprinted membrane as a synthetic receptor for the analysis of testosterone, Anju Augustine & B. Mathew . 5th Asian Conference on Colloid and Interface Science (ACCIS) University of North Bengal, Darjeeling, W. Bengal, November 20-23, 2014. |
| 235. | Colloid and Interface Science (ACCIS), University of North Bengal, Darjeeling, W. Bengal November 20-23, 2014 |
| 236. | Fourth International Conference on Natural Polymers and Biomaterials (ICNP 2015) : 10-12 April 2015 |
| 237. | Nanostructured sorbents for the removal of heavy metal ions in wastewater, Maria Sebastian & Beena Mathew , International Conference on Materials for the Millennium (MatCon 2016), Cochin University of Science & Technology, January 13-16, 2016 |
| 238. | Enantiomeric separation of S-Ibuprofen using multi-walled carbon nanotube based molecular imprinted sorbents, Sooraj M.P & Beena Mathew , 25th Swadeshi Science Congress, Sree Sankara University of Sanskrit, Kalady, December 16-18, 2015. |



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| 239. | Comparison of the metal ion adsorption properties of modified and unmodified multiwalled carbon nanotubes and charcoal, Sajini T & Beena Mathew , International Conference on Nanomaterials and Nanotechnology (NANO 2015), Centre for Nanoscience and Technology, K.S.R. College of Technology, Tiruchengode, Tamil Nadu, December 7-10, 2015 |
| 240. | Microwave assisted polymer mediated facile synthesis of silver nanoparticles and investigation of their catalytic activities, Shilpa Joy, Rajimol K. P & Beena Mathew , International Conference on Nanomaterials and Nanotechnology (NANO 2015), Centre for Nanoscience and Technology, K.S.R. College of Technology, Tiruchengode, Tamil Nadu, December 7-10, 2015 |
| 241. | Preparation and evaluation of multiwalled carbon nanotube incorporated molecular imprinted polymer, Anju Augustine & Beena Mathew , UGC Sponsored National Seminar on Nanochemistry: Techniques, Advancement and Applications, S.D. College, Alappuzha, October 16, 2015 |
| 242. | Synthesis and characterization of molecularly imprinted polymer on MWCNT, Archana Aravind & Beena Mathew , UGC Sponsored National Seminar on Nanochemistry: Techniques, Advancement and Applications, S.D. College, Alappuzha, October 16, 2015 |
| 243. | Solid phase synthesis of 4,6-diaminopyrimidinone: Aparna. E. P and K. S. Devaky , National Seminar on Recent Trends in Organic Synthesis and Chemical Biology (RTSB-2015), Annamalai University, October 9-10, 2015 |
| 244. | Modified polymer supported benzyl quaternary ammonium dichromate reagent as a polymeric oxidizing agent for the oxidation of thioanisole: Benny Thomas, Divya Mathew and K. S. Devaky , National Seminar on Recent Trends in Organic Synthesis and Chemical Biology (RTSB-2015), Annamalai University, October 9-10, 2015 |
| 245. | Kinetic study on the catalytic amidolysis of the dipeptide H-Tyr-Gly-OH using boronic acid analogue imprinted chymotrypsin mimics: Divya Mathew, Benny Thomas and K. S. Devaky , National Seminar on Recent Trends in Organic Synthesis and Chemical Biology (RTSB-2015), Annamalai University, October 9-10, 2015. |
| 246. | Kinetics of Substrate Specific Amidolysis of p-Nitroanilides of Amino Acids by Chymotrypsin Mimics Imprinted with Phosphonate Analogue, Divya Mathew, Benny Thomas and K.S.Devaky ; "Emerging Trends in Nanomaterials" organized by Dept. of Chemistry, Sree Sankara Vidyapeetom College, Perumbavoor, Kerala, India, July 9-10, 2015. |
| 247. | Kinetics of Oxidation of α - Amino Acids by Polymer Supported Dichromate Reagent: Benny Thomas, Divya Mathew and K.S. Devaky ; UGC sponsored National Seminar on "Emerging Trends in Nanomaterials" organized by Dept. of Chemistry, Sree Sankara Vidyapeetom College, Perumbavoor, Kerala, July |
| 248. | National Seminar on Recent trends in Organic Synthesis and Chemical Biology (RTSB-2015) ANNAMALA UNIVERSITY ,October 9-10-2015, Solid phase synthesis of pyrazole derivatives: Ashly Thomas ,Sreejith MS , K.S Devaky |
| 249. | Epoxy nanocomposites Aneesa P & Sabu Thomas , Best poster award -Deakin India Research Initiative – International Symposium on Translational Research 2015 held at New Delhi from 7-8th December 2015 |
| 250. | Biomedical, Dr.Praveen.G & Sabu Thomas , UGC Sponsored National Seminar On "Emerging Trends In Nanomaterials" Organized By Dept. Of Chemistry, Sree Sankara Vidyapeetom College |
| 251. | Biomedical , Dr.Praveen.G & Sabu Thomas , The Best Poster Presentation Award (Prof. D.M. Vasudevan Award), In Bioradiance-2015 'National Conference On |



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| | Frontiers In Diabetic Research And Treatment' Organized By Pushpagiri Research Centre, Tiruvalla, India |
| 252. | Cordyceps- a potent antidote for cancer , Blessy Joseph & Sabu Thomas , 1st Prize For Poster Competition "International Conference On Holistic Medicine -ICHM 2015 |
| 253. | SBR/CNT nanocomposites , Jiji Abraham & Sabu Thomas , Best Paper Award, National Seminar On Advanced Polymer Materials(Hesperos 2015), Organized By Department Of Polymer Engineering Mahatma Gandhi University College of Engineering, Muttom, Thoupuzha, Kerala September 11&12, 2015 |
| 254. | An efficient iron catalyzed cross coupling reaction of thiols with aryl halides Sindhu K S and G. Anilkumar at the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha pp 42 |
| 255. | CuI/trans 1,2-diaminocyclohexane-catalysed coupling reactions of aryl halides with terminalalkynes Asha Sujatha and G. Anilkumar at the 27th Kerala Science Congress 27-29 January2015 at Alappuzha46 |
| 256. | Zinc catalyzed C-S cross coupling reactions of aryl halides with aryl thiols Amrutha P Thankachan and G. Anilkumar at the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha pp 47 |
| 257. | Novel protocol for Ullmann diaryl ether synthesis under aerobic conditions Anns Maria Thomas and G. Anilkumar at the 27th Kerala Science Congress 27-29 January 2015 at Alappuzha pp 57 |
| 258. | The 25th Swadeshi Science Congress 16-18 December 2015 at Kaladi, Kerala Anns Maria Thomas, Asha. S and G. Anilkumar pp 74 |
| 259. | The 25th Swadeshi Science Congress 16-18 December 2015 at Kaladi, Kerala Sindhu K. S and G. Anilkumar pp 94 |
| 260. | The KSCSTE sponsored National Seminar on Current Trends in Organic and Medicinal Chemistry on 27th January 2016 at Catholicate College, Pathanamthitta, Novel zinc-catalyzed Cadiot-Chodkiewicz reaction”, K. Keerthi Krishnan and Gopinathan Anilkumar |
| 261. | The KSCSTE sponsored National Seminar on Current Trends in Organic and Medicinal Chemistry on 27th January 2016 at Catholicate College, Pathanamthitta, A convenient route to 1,3-diynes using alcoholic solvent-assisted amine free Cadiot-Chodkiewicz coupling reaction at room temperature under aerobic conditions”, S. Anjana, S. Asha, A. M. Thomas, and G. Anilkumar , |
| 262. | National Seminar on Organic Synthesis on 28th January 2016 at St. Joseph’s College, Irinjalakuda, Trissur, Zinc-catalysed synthesis of substituted arylbenzofurans, Amrutha P Thankachan, and Gopinathan Anilkumar , |
| 263. | UGC sponsored National Seminar on Organic Synthesis on 28th January 2016 at St. Joseph’s College, Irinjalakuda, Trissur. “Sonogashira type cross-coupling reactions via Iron catalysis using water as solvent under aerobic conditions – A greener approach”, Sindhu K. S and GopinathanAnilkumar |
| 264. | UGC sponsored National Seminar on Organic Synthesis on 28th January 2016 at St. Joseph’s College, Irinjalakuda, , Novel zinc-catalyzed coupling protocol for haloalkynes with terminal alkynes, K. Keerthi K. and G.Anilkumar |
| 265. | UGC sponsored National Seminar on Organic Synthesis on 28th January 2016 at St. Joseph’s College, Irinjalakuda, Trissur, “Synthesis of 1,3-diynes from terminal acetylenes under Ligand-free conditions”, Anjana S and Gopinathan Anilkumar |
| 266. | Synthesis of diarylalkynes via Iron-catalyzed Sonogashira type cross-coupling reaction in water under aerobic conditions” at the 28th Kerala Science Congress 28- |



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| | 30 January 2016 at Calicut University, Kozhikode, Kerala Sindhu, K. S and Gopinathan Anilkumar pp 2809-2818 |
| 267. | Zinc-catalyzed synthesis of substituted arylbenzofurans and indoles A. P. Thankachan and Anilkumar, G , Proceedings of the National Seminar on Current Trends in Organic and Medicinal Chemistry on 27th January, 2016 at Catholicate College, Pathanamthitta |

28. Student projects

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| Percentage of students who have done in-house projects including inter-departmental projects | 3% |
| Percentage of students doing projects in collaboration with other universities / industry / institute | 97% |

29. Awards / recognitions received at the national and international level by:

| A | Research awards received by the faculty |
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| 1. | Distinguished Professorship Award Josef Stefan Institute, Slovenia, 2010 (Prof.Sabu Thomas) |
| 2. | Fellow of the Royal Society of London ,FRSC,2012 (Prof.Sabu Thomas) |
| 3. | Awarded Bronze Medal of Chemical Research Society of India, 2013 (Prof. Sabu Thomas) |
| 4. | Awarded Materials Research Society of India Award (2013). (Prof. Sabu Thomas) |
| 5. | Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014 (Prof. Sabu Thomas) |
| 6. | Honorary doctorate (D.Sc.) from the University of South Brittany, Lorient, France (2015) (Prof. Sabu Thomas) |
| 7. | Nanoscience Research Leader Award 2015 by Cognizure Publishers, hostess of the International Journal – Science Letters (Prof. Suresh Mathew) |
| 8. | Doctorat Honoris causa-LIMATB, University of South Brittany, France 2015 (Prof.Sabu Thomas) |
| 9. | UGC Research Award, 2012 (Dr. Raju Francis) |
| 10. | Rudolph A Marcus Award 2016 in Chemical Sciences by Lognor, Publishers of Science Advances Today (Prof. Suresh Mathew) |
| 11. | Second prize in the Evonik Industries Chemistry Research Proposal competition ECRP 2016, Germany (Dr. G. Anilkumar). |
| B | Research awards received by the students |
| 1. | Kinetic Study on the Catalytic Amidolysis of Z-L-Phe-PNA Using Phosphonate Analogue Imprinted Polymer Catalysts as Chymotrypsin Mimics (<i>National Seminar on Phytochemistry An Emerging Branch for the Development of Potential Anticancer Drugs</i> , Assumption College, Changanasserry, September 2015)- <i>Best poster award</i> (Divya Mathew). |



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| 2. | Kinetic Studies on Hydrolytic Activities of Polymer Supported Enzyme like Catalysts in the Amidolysis of Z-Tyr-Gly-OCH ₃ (<i>Recent Trends in Spectroscopy: A Chemical and Biological Perspective-II</i> , Newman College, Thodupuzha, 13-14 September 2015)- <i>Best poster award</i> (Divya Mathew).DivyaMathew, Benny Thomas, K.S. Devaky |
| 3. | Effect of the Nature and Extent of Crosslinking on Catalytic Amidolysis of Z-L-Tyr-PNA Using Chymotrypsin Mimics (<i>National Seminar on Advanced Functional Materials</i> , Mar Athanasius College, 15-16 September 2015)- <i>Best poster award</i> (Divya Mathew).Divya Mathew ^a , Benny Thomas ^{a,b} , K.S. Devaky ^a |
| 4. | Kinetic Study on the Catalytic Amidolysis of the Dipeptide H-Tyr-Gly-OH Using Boronic acid Analogue Imprinted Chymotrypsin Mimics (<i>RTSB, Recent Trends in Organic Synthesis and ChemicalBiology</i> , Annamalai University, Department of Chemistry, October 2015)- <i>Best poster award</i> (DivyaMathew) Divya Mathew ^a , Benny Thomas ^{a,b} , K.S. Devaky ^a |
| 5. | Deepalekshmi Ponnamma Best Poster Presentation Award in “National Seminar on Recent Advances in Polymer Science and Technology-2012” Organized by: Society for Polymer Science India and MarIvanios College Trivandrum, India |
| 6. | DeepalekshmiPonnamma Best Oral Presentation Award in “National Conference on Nanostructured materials and Nanocomposites (NCNM) 2012” Sponsored by UGC, at NSS College, Ottapalam, Kerala, India |
| 7. | Cintil Jose Best paper award for the paper entitled “ <i>Novel approach for the development of cellulosenanowhiskers from isorafibre</i> ” at the National Seminar on ‘Emerging Trends in Chemistry’held atSt.Joseph’s College, Moolamattam on 25th February 2012 |
| 8. | Sooraj M. P., Beena Mathew, Emerging Trends in Polymeric Materials (ETPM 2014) organized by The Society for Polymer Science, India and Christian College, Chengannur, Kerala, January 2014 – Best Poster Award |
| 9. | Sooraj M. P., Beena Mathew - “3rd International Science Congress (ISC 2013)” organized by International Science Congress Association, Karunya University, Coimbatore, December 2013 – Best Poster Award. |
| 10. | Sooraj M. P., Beena Mathew - “International Conference on Advances in Material Science (ICAMS 2013)” sponsored by OPCW, DRDO, KSCSTE, Sree Snakara College, Kalady, October 2013 – Best Poster Award |
| 11. | Sooraj M. P., Beena Mathew - National Seminar on “Advances in Chemistry-Research and Opportunities” sponsored by KSCSTE, All Saints’ College, Trivandrum, August 2013 – Best Paper Award |
| 12. | Runcy Wilson- Best Paper Award- National Seminar on Advanced Polymer Materials , Organized by Department of Polymer Engineering Mahatma Gandhi University College of Engineering, Muttom, Thoupuzha, Kerala September 11&12, 2015 |
| 13. | DeepalekshmiPonnamma, Selected as an invited speaker for the "Polymer Conference for Young Researchers (PCYR-14)" held at CSIR-NIIST |
| 14. | Best Paper Award to Amrutha P Thankachan “A Novel Protocol for the Formation of C-S Bonds Using Zn(II)-Catalysts” in the UGC sponsored 13th Prof. K. V. Thomas Endowment National Seminar onNew Frontiers in Chemical Research” Conducted at S. H. College Thevara, Ernakulam, on 4-5 December 2014 |
| 15. | Novel Protocol for Ullmann C-O Coupling Reactions Under Aerobic Conditions , A. M. Thomas, G. Anilkumar, Proceedings of the National Seminar on Recent Trends in Chemistry, 6-7 November, 2014, Baselius College, Kottayam, Kerala (Best Poster award) pp. 15 |



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| 16. | Best poster Competition Second prize to Amrutha P Thankachan “Novel zinc-catalyzed C-S cross coupling reactions of aryl halides with aryl thiols ” in the UGC sponsored National seminar “ Chemistry for Tomorrows world ” Conducted at B. K. College Amalagiri, Kottayam on 22-23 January 2015 |
| 17. | Jeena Abraham, Beena Mathew, International Conference Nanoscience and Emerging Applications (ICONSEA) organized by Centre for Nanoscience and Technology, Jawaharlal Nehru University, Hyderabad, June 26-28, 2014 – Best Paper Award |
| 18. | Best poster award- International conference, ICMST October 29-31, 2010 Trivandrum (IIST). Thermal and mechanical properties of poly(acrylonitrile butadiene styrene) modified epoxy/amine systems jyotishkumar Parameswaranpillai |
| 19. | Best poster award, Robin Augustine, International Conference on Membranes (ICM-2013) organized by Centre for Environment Education and Technology (CEET), |
| 20. | Third prize for poster presentation Second prize for poster in Second International Conference on Nanomaterials: Synthesis, Characterization and Application organized by Centre for Nanoscience & Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India October 3- 6, 2013. Robin Augustine Tissue engineering |
| 21. | Selected as an invited speaker for the "Polymer Conference for Young Researchers PCYR-14)" held at CSIR-NIIST Deepalekshmi Ponnammamma- Elastomer nanocomposite |
| 22. | Best Poster Presentation Award -International Conference on Advanced Nanocomposite for Construction Materials (ICNC-2013) organized by Centre for Nanoscience & Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India 12th -14th March 2013. Robin Augustine |
| 23. | Best Paper Award,National Seminar On Advanced Polymer Materials (SCENTIA), Organized By Department Of Polymer Engineering Mahatma Gandhi University College Of Engineering, Muttom, Thoupuzha, Kerala 2013 , Runcy Wilson |
| 24. | Best Paper Award,National Seminar On Advanced Polymer Materials (SCENTIA), Organized By Department Of Polymer Engineering Mahatma Gandhi University College Of Engineering, Muttom, Thoupuzha, Kerala 2013, Runcy Wilson |
| 25. | Young researcher award, the international conference on ‘Functional Polymers 2011’ held at NIT CALICUT organized jointly by the Department of Chemistry, NIT Calicut & Leeds University, UK Cintil Jose “A cost effective approach for the development of cellulose nanowhiskers |
| 26. | Best oral presentation award -International Conference on Tissue Engineering and Regenerative Medicine (ICAPM-2013) National Institute of Technology, Rourkela, Odisha Robin Augustine |
| 27. | Best poster award -Bioradiance 2014 (National level seminar), organized by the Pushpagiri Research Centre, Tiruvalla, Kerala |
| 28. | Robin Augustin, Biomedical, Third prize for poster presentation,2nd International Conference of Nano Materials(ICNM)2014 |
| 29. | Best Oral Presentation Award -National Seminar on Material Science and Modern Analytical Techniques on 26th &27th of March Preetha Balakrishnan Fully Biodegradable Potato Starch Composites : Effect Of Nano Fiber Reinforcement On Mechanical And Water-Sorption Characterestics |
| 30. | Best oral presentation award -International Conference on Tissue Engineering and Regenerative Medicine (ICAPM-2013) National Institute of Technology, Rourkela, Odisha, Robin Augustine |



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| 31. | Best poster award -Bioradiance 2014 (National level seminar), organized by the Pushpagiri Research Centre, Tiruvalla, Kerala Robin Augustine |
| 32. | Best poster award -Bioradiance 2014 (National level seminar), organized by the Pushpagiri Research Centre, Tiruvalla, Kerala. Robin Augustine, |
| 33. | Best Oral Presentation - International Conference On Plasma Science And Nanotechnology, And 29th National Symposium On Plasma Science, Jamy James |
| 34. | Anneesa P. Best poster award -Deakin India Research Initiative – International Symposium on Translational Research 2015 held at NewDelhi from 7-8th December 2015 |

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| Sl. No | Programme organized | Source of funding | outstanding participants |
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| | Dr.I. Ibnsaud | | |
| 1. | National Workshop on NMR Spectroscopy, 10th - 13th September 2014 | KSCSTE | Prof. C. L. Khetrapal (CBMR, Lucknow) Prof. S. Subramanian (IISER, Trivandrum) Prof. N. Chandrakumar (IIT, Madras) Prof. S. Ganapathy (NCL, Pune) |
| 2. | Workshop on High Performance Liquid Chromatography (HPLC), 4th & 5th November 2013 | MGU | Dr. V. Gaitonde (Scientist, Prochrome Ltd., Mumbai) Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry, National Research Centre, Egypt) |
| 3. | Workshop on "Computational Chemistry", May 28th - 31st, 2012 | DST, KSCSTE | Prof. R.B. Sunoj, IIT Mumbai Prof. A. Anoop, IIT Kharagpur Prof. Ayan Dutta, IISER Trivandrum |
| 4. | Workshop on "Basic Principles and Applications of Computational Chemistry, May 23rd - 27th, 2011 | MGU | Prof. M. S. Gopinathan, IISER, TVM Prof. K.L Sebastian, IISc, Bangalore Prof. Mangala Sunder, IIT, Madras |
| 5. | Workshop: "Quantum Mechanics, Molecular-Resonance Spectroscopy and Hands-on Experience in Spectroscopy, March 1 st – 3 rd , 2012 | MGU | Prof. S.D Samanth, ICT, Mumbai |
| 6. | Seminar on Research and Development in Chemical Process Development | MGU | Prof. K.V. Ramanathan, IISc, Bangalore |
| 7. | Applications of Magnetic Resonance Spectroscopy in scientific research, 22 nd Sept., 2012 | MGU | Prof. I.N.N. Namboothiri, Dept. Chemistry, IIT Delhi |



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| 8. | Seminar on Metal Mediated Organic Synthesis, Sept. 4 – 10, 2012 | MGU | Dr. P. J Sebastian, senior Scientist, CIE, UNAM, Mexico |
| 9. | Capacity Building in Scientific Research .10 th August.,2012 | MGU | Dr.Syriac Joseph Palackal |
| 10. | Seminar – A review on Renewable Energy Technologies, 17 th July., 2012 | KSCSTE | Dr.Vineeshvijayan, IISER, TVM |
| 11. | One day seminar - Organic Chemistry and Pharmaceutical Industry, 24 th April, 2012 | MGU | Prof. K. K. Balasubramaniam, IIT Madras (Retd.) |
| 12. | Seminar on Application of two dimensional NMR in the structural elucidation of biomolecules | MGU | Dr. Vineesh vijayan, IISER, Thiruvananthapuram |
| 13. | Summer Workshop on Computational chemistry, May 28th - 31st, 2012 | MGU | Prof.R. B. Sunoj (IIT, Mumbai) Prof. Nisanth N. Nair (IIT, Kanpur) |
| 14. | Workshop on Advanced Materials Characterization Techniques, 21st - 25th May, 2012 | MGU | Prof. K. G. Suresh (IIT, Mumbai) Prof.UnnikrishnanNayar (IISER, Trivandrum) Dr. Manoj Ramavarma(NIIST, Trivandrum |
| 15. | English Language Skill Workshop, December 22 – 23, 2011 | MGU | District Centre for English (DCE - Neyyattinkara) |
| 16. | Seminar on Genetic Structure of Indian Jewish Diaspora October 27 – 28, 2011 | MGU | Dr. Mini Kariappa, Dept. Anatomy,kolenchery |
| 17. | Workshop on Organometallic Chemistry August 23- 26, 2011 | MGU | Prof. Anil J. Elias, IIT Delhi |
| 18. | Seminar associated with new student orientation programme Workshop Sept.02, 2011. | MGU | Dr. Suresh Das, Director, NIIST, TVM Dr. Manoj Ramavarma , Scientist, NIIST, TVM |
| 19. | Basic Principles and Applications of Computational Chemistry May 23 rd -May 27th, 2012 | MGU | Prof. R.B. Sunoj, IIT Mumbai Prof. A. Anoop, IIT Kharagpur Prof.AyanDutta, IISER Trivandrum |
| 20. | Seminar on Pharmaceutical Process Chemistry May 17 th , 2011 | MGU | Dr.Rajappa Vaidyanathan, Chemical Research and Development Division, Pfizer, Groton, CT, USA |



| | | | |
|-----|--|---------------------------------------|---|
| | Dr.G.Anil Kumar | | |
| 21. | Workshop on Quantum Mechanics for M Sc Chemistry students and faculty 20-21 June 2015 | KSCSTE | Dr.R S Swathy, IISER, Trivandrum Dr C.H Suresh NIIST Trivandrum Dr. A Salavudheen Kunju University college Trivandrum |
| 22. | Workshop on Group Theory 30 Oct-1 Nov 2015 | KSCSTE | Prof.C Krishnan University College, Dr.E.G Jayasree Kerala University |
| 23. | Workshop on Stereochemistry 8-10 January 2016 | KSCSTE | Prof. R. B Sunoj IIT Madras Dr.A Salavudheen Kunju University college Trivandrum Prof.Santhosh Guarpure IIT Mumbai |
| 24. | Work shop on "Fundamentals and applications Materials science" SRIBS(KSCSTE) March 4-6 | SRIBS(KSCSTE) | Dr.B Vaire IIT Madras Prof HSP Rao Department of chemistry, Pondichery University Dr.P A Unnikrishnan IIT Madras |
| | Dr. Suresh Mathew | | |
| 25. | One day workshop organised by UGC-Special assistance programme. "Chemistry of Advanced Materials March 20, 2012 | UGC- SAP | Dr. K. N. Ninan VSSC, Thiruvananthapuram |
| | Dr. S.Anas | | |
| 26. | National work shop on "Fundamentals and applications Material science" organized in association with SRIBS(KSCSTE) March 4-6 | SRIBS(KSCSTE) | Dr.Kuruvilla joseph, IIST Trivandrum, Dr.Santhosh Babu, NCL ,Pune, Dr. Joshy Joseph, NIIST, Trivandrum |
| | Dr. Sabu Thomas | | |
| 27. | First International Conference on Advanced Materials for Power Engineering (ICAMPE 2015) : 11-13 December, 2015 | DRDO, New Delhi DST, New Delhi | B. Rožič, M. Lavrič, M. Trček, G. Cordoyiannis, Z. Kutnjak, S. Kralj (Slovenia) M. Saad Alam (India) Judy Wu (USA) |
| 28. | International Conference on Nanostructured Polymeric Materials (ICNPM 2015) : 13-15 November, 2015 | ICMR, New Delhi KSCSTE, Trivandrum | Manfred Stamm (Germany) |
| 29. | World Congress on Microscopy (WCM 2015): 9-11 October, 2015 | DST New Delhi | Leszek A. Dobrzański, M. (Poland) |



| | | | |
|-----|--|---|--|
| 30. | Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015 | CSIR, New Delhi | Kohzo Ito(Japan) |
| 31. | Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014 | DST, New Delhi | Prof. C.N.R.Rao (India) Vijayamohanan K. Pillai(India) |
| 32. | Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014 | MG University KSCSTE, Trivandrum | H. Münstedt (Germany) Graham J. Leggett(UK) |
| 33. | First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014 | DRDO, CSIR New Delhi | S. Wang and C. M. Harvey(UK) |
| 34. | Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014 | CSIR, New Delhi DST, New Delhi INSA, New Delhi KSCSTE, Trivandrum | A.V. Ratna Prasad*, K. Ramanaiah, K. Mohana Rao, K.M.V Ravi Teja(India) Abdeen Omer(UK) Abitha V K , K Rajkumar, Dr. P. Thavamani(India) |
| 35. | International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013 | DST New Delhi | Abraham J. Domb, Neeraj Kumar, Wahid Khan, Diana Surendra Kulkarni(India) |
| 36. | Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013 | CSIR, New Delhi DRDO, New Delhi, DST, New Delhi, ICMR, New Delhi, INSA, New Delhi | Animesh Jha, M S Duggal, Tom Vancoillie, Richard Hoogenboom(Belgium) |
| 37. | First International Conference on Advanced Nanocomposite for Construction Materials : 12-14 March 2013 | AERB, Mumbai CSIR New Delhi DRDO, New Delhi DST, New Delhi ICMR, New Delhi | D.A. Koleva(Netherlands) Paulo Cachim, André Monteiro, Pedro Costa(Portugal) |
| 38. | Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012. | CSIR, New Delhi DBT, New Delhi DRDO, New Delhi DST, New Delhi INSA, New Delhi | James Jacob (India) Anna Kucinska and Jerzy P. Koh (South Korea) Sandipan Chatterjee(India) |
| 39. | First Indo- US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31st March – 2nd April 2012, | CSIR, New Delhi DRDO, New Delhi | Ickowich, Moran Haimzada(Israel) |



31. Code of ethics for research followed by the department

- Ethical guidelines of the university is strictly followed.
- Plagiarism is being assessed before submission of M.Phil. Project report and Ph.D thesis.
- Minimization of chemical wastes, recycling of surplus materials and management of hazardous wastes.
- Grievance redressal mechanism

32. Student profile programme-wise

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.Sc | | | | | |
| 2011 | 643 | 9 | 25 | 100 | 92 |
| 2012 | 689 | 8 | 24 | 100 | 100 |
| 2013 | 712 | 7 | 25 | 100 | 100 |
| 2014 | 829 | 6 | 26 | 100 | 100 |
| 2015 | 1045 | 7 | 25 | 100 | 100 |
| 2016 | 1057 | 6 | 26 | 100 | 100 |
| M.Phil | | | | | |
| 2011 | 47 | 4 | 8 | 100 | 100 |
| 2012 | 51 | 2 | 10 | 100 | 100 |
| 2013 | 59 | 3 | 9 | 100 | 100 |
| 2014 | 62 | 2 | 10 | 100 | 100 |
| 2015 | 52 | 4 | 8 | 100 | 100 |
| 2016 | 55 | - | - | | |
| M.Tech | | | | | |
| 2011 | - | - | - | - | - |
| 2012 | - | - | - | - | - |
| 2013 | 98 | | | | 100 |
| 2014 | 104 | | | | 100 |
| 2015 | - | - | - | - | - |
| 2016 | 30 | | | | 100 |
| Ph.D | | | | | |
| 2011 | 12 | 3 | 9 | | |
| 2012 | 14 | 2 | 12 | | |
| 2013 | 13 | 3 | 10 | | |
| 2014 | 11 | 2 | 9 | | |
| 2015 | 11 | 2 | 9 | | |
| 2016 | 6 | 0 | 6 | | |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | Students from the Same University (%) | | Students from other universities within the State (%) | | Students from universities outside the State (%) | Students from other Countries (%) |
|--|---------------------------------------|---------|---|---------|--|-----------------------------------|
| | M.Sc. | M.Phil. | M.Sc. | M.Phil. | | |
| 2010-11 | 65 | 76 | 35 | 34 | - | - |
| 2011-12 | 63 | 56 | 37 | 44 | - | - |
| 2012-13 | 66 | 20 | 34 | 80 | - | - |
| 2013-14 | 66 | 35 | 34 | 65 | - | - |
| 2014-15 | 59 | 25 | 41 | 75 | - | - |
| 2015-16 | 69 | 67 | 31 | 33 | - | - |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

(Period 2010-16)

| Competitive examinations | NET / JRF | GATE | SET | Others |
|--------------------------|-----------|------|-----|--------|
| No. of students | 61 | 22 | 5 | 8 |

35. Student progression

| Student progression | Percentage against enrolled |
|--------------------------------|-----------------------------|
| UG to PG | --- |
| PG to M.Phil. | 19% |
| PG to Ph.D. | >50% |
| Ph.D. to Post-Doctoral | 40% |
| Employed | |
| • Campus selection | 5% |
| • Other than campus recruitmen | 75% |
| • Entrepreneurs | 5% |



36. Diversity of staff

| Percentage of faculty who are graduate | |
|--|----|
| Of the same university | 10 |
| Other universities within the state | 60 |
| Universities from other states | 20 |
| Universities outside the country | 10 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

| SL.No | Name of faculty | M.Phil./ Ph.D./ D.Sc./ D.Litt. |
|-------|-------------------|---|
| 1. | Prof. Sabu Thomas | Honorary Doctorate (D.Sc.) from the University of South Brittany, Lorient, France |

38. Present details of departmental infrastructural facilities with regard to

a) Library

School of Chemical Sciences Library has been set up in 1984 along with establishment of the Department. The library holds 4100 books as on date. It includes a good collection of reference books. Main source of funding includes grants from State Government and UGC. This library has been automated by using KOHA software, by which all Faculty, Research Scholars and students can access from anywhere in the campus via Campus area network. This campus network enables the scholars to have free use of internet, UGC-INFONET Programme and J-gate portal. All these IT based services are very extensively used by our Research Scholars. At the beginning of the academic year a library orientation programme is arranged for all new students by which all students are made acquainted with the resources and services available with the department library and University Library. Frequent classes by private online journal companies are also held for Chemistry Scholars.

b) Internet facilities for staff and students

Wired and wireless connectivities are provided by the department for individual faculty and students.

c) Total number of class rooms : 7

d) Class rooms with ICT facility : 3

The School has a culture of student centric education and learning. Efforts are made to ensure student centric learning and knowledge management by: Using ICT tools in the classrooms. Providing library facilities for self – learning. Organizing monthly seminars, lecture series, conferences, workshops, and symposia.

e) Students' laboratories : 4

f) Research laboratories : 12

The department provide facilities with modern instruments required to pursue research in different areas of chemistry. This include Raman Spectrometer, Surface analyser, Microwave reactor, TG/DTA, Scanning Electron Microscopy (SEM)/EDAX, Polarising optical microscopy, Abrader, Differential Scanning Calorimetry (DSC),

Dynamic mechanical Analysis (DMA), Atomic Force Microscopy (AFM), X-Ray Diffraction (XRD), Elemental Analyser, High performance liquid chromatography (HPLC), Universal Testing Machine(UTM), Fourier Transform Infrared spectroscopy(FT-IR), Gas chromatography - Mass Spectrometry (GCMS), Contact Angle Meter, Rheometer, Fluorimeter, UV-vis. Spectrophotometer, HR-TEM and Impact Tester.

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

| Name of Guide | Name of Scholar | Post-doctoral |
|------------------------------|--|----------------------|
| Dr. Anas S. | Sruthi.P.R | Nil |
| Dr. Anilkumar G | Asha. S Sindhu K. S. Anns Maria Thomas | Nil |
| Dr. C. T. Aravindakumar | Sreedhanya S. | Nil |
| Dr. Beena Mathew | Priyanka R.N. Maria Sebastian | Nil |
| Dr. K. S. Devaky | Geethu Joseph | Nil |
| Dr. M. R. Gopinathan Nair | Priyanka K G Mrudula M S | Nil |
| Dr. I. Ibnusaud | Deenamma Habel Divya S. Nair | Nil |
| Dr. A. S. Padmanabhan | Tania Rose Abraham Keerthi Murali | Nil |
| Dr. M. Padnabhan | Akhila K. | Nil |
| Dr. K. Pius | Minu Elizabeth Thomas | Nil |
| Dr. Raju Francis | Anjaly Sivadas Geethy P Gopalan | Nil |
| Dr. Sabu Thomas | Sandhya P. K | Dr.Dhanya |
| Dr. Suresh Mathew | Arya Parameswaran | Nil |

b) from other institutions/universities

| Name of Guide | Name of Scholar | Post-doctoral |
|----------------------|--|----------------------|
| Dr. Anas S. | Jithin Joy Arya P | Nil |
| Dr. Anilkumar G | Ujwaldev.SM Seethalakshmi K. C | Nil |
| Dr. Beena Mathew | Remya Vijayan Subi Jacob Sajini T. Jaise Maria George Archana Aravind Bijimol.D | Dr. Sooraj M. P |



| | | |
|-------------------------|--|--|
| Dr. C. T. Aravindakumar | Sijumon V A Jain Maria Thomas Divya K S | Nil |
| Dr. K. S. devaky | Divya Mathew Ashly Thomas Elizabeth Francis Aparna E. P. | Dr. Sona Narayan |
| Dr. A. S. Padmanabhan | Aswathy Joseph Maria Jacob Aji Joseph | Nil |
| Dr. K. Pius | Sajeesha P | Nil |
| Dr. P. K. Radhakrishnan | Archana S. Nair | Nil |
| Dr. Raju Francis | Nidhin Joy | Nil |
| Dr. Sabu Thomas | Jini Varghese Shinu Koshy Aneesa.P Abitha V.K Pious.C.V. | 1. Dr. S. Manna 2. Dr. Sravanthi L. 3. Dr. Asha Krishnan 4. Dr. Bindu 5. Dr. Prasenjith Saha |
| Dr. Suresh Mathew | Priya Sara Paul Jisna Jos Vandana P. V. | |

40. Number of post graduate students getting financial assistance from the university

| Course | Details of Scholarships | | | | | |
|----------|---------------------------|-----------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| M. Sc. | e-grants :6 Aspire :31 | e-grants : 8 Aspire : 32 | e-grants :5 Aspire :32 | e-grants : 7 | e-grants :6 | e-grants : 9 |
| M. Phil. | e-grants :5 RGNF : 1 | e-grants : 4 RGNF : 1 | e-grants :3 | e-grants : 3 | e-grants :3 | e-grants :3 |
| Ph. D. | e-grants : 2 | e-grants :2 | e-grants :4 RGNF : 1 | e-grants : 4 RGNF : 1 | e-grants : 6 RGNF : 1 | e-grants : 6 RGNF : 1 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

New prgramms in the school were designed after having feedback from all stake holders. The consolidated feedback were discussed in the faculty council and necessary recommendation were submiteed to university for starting new programme.

**42. Does the department obtain feedback from**

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. The feedback collected has a significant role in taking necessary steps for academic and infrastructural development. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Feedback from students is an essential component in the curricular design and development process. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | The feedback obtained from students, alumni, community, industry, etc. is the base for framing the curriculum. The feedback given by students and stake holders is the basic matrix for identifying short falls in curricular content and reinforcements needed therein. |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position | Remarks |
|--------|-------------------------|--|--|
| 1. | Dr. Benny K George | Group Director, | VSSC |
| 2. | Dr. K. Sreekumar | Professor, y Dept of Applied Chemistry | Cochin University of Science and Technolog |
| 3. | Dr. Roy Joseph, | Scientist G, | SCTIMST, Trivandrum |
| 4. | Dr. Suresh C H | Principal Scientist and Head | Inorganic and Theoretical Chemistry, NIIST, Trivandrum |
| 5. | Dr. Subin Jacob | Professor | JNCSR, Bangalore |
| 6. | Shri. Biju P. K. | Member of Parliament | |
| 7. | Dr. C.P Vinod | Scientist F | NCL, Pune |
| 8. | Dr. Suresh C Pillai | Professor | ITSligo, Ireland |
| 9. | Dr. Muraleedharan, K. M | Associate Professor | IIT, Madras |
| 10. | Dr. Ajikumar P | Founder & CEO | Manus Biosynthesis, Boston, USA |



44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts

| Sl. No. | Details |
|---------|---|
| 1. | Dr. Aashish Roy (Department of Materials Engineering, IISc. Bangalore) |
| 2. | Prof . R. Damodharan , IIT Madras |
| 3. | Prof. Christophe Sinturel , France |
| 4. | Dr. Jürgen Pionteck,Leibniz Institute of Polymer Research,Department Polymer Reactions and Blends, Hohe Str. 6,01069 Dresden, Germany |
| 5. | B.V.R. Tata: Head, Light scattering Studies Section,Scientific Officer (H) Professor-Homi Bhabha National Institute |
| 6. | Prof.Partha Chatterjee as Erudite Scholar-in- Residence programme |
| 7. | Dr. Vijayamohanan K Pillai, Central Electrochemical Research Institute, Karaikudi |
| 8. | One day workshop organised by UGC-Special assistance programme. “Chemistry of Advanced Materials” , March 20, 2012 |
| 9. | Prof. Taofik Shittu from Nigeria (December 2014) |
| 10. | Prof. (Emerit.) Dr. Werner Mormann, Universität Siegen (December 2014) |
| 11. | Dr. Aashish Roy(Department of Materials Engineering Indian Institute of Science)(November 2014) |
| 12. | Prof. Renata Dantas, University of Campinas, Sao Paulo, Brazil (October 2014) |
| 13. | Dr. Rajesh A. Shenoi, University of British Columbia, Vancouver BC, Canada (August 2014) |
| 14. | Dr. Suresh.S. Pillai of Environmental Nanotechnology Division, Institute of Technology, Sligo, Ireland(August 2014) |
| 15. | Dr. Ali Kareem al-lami, Misan University, Iraq (July 2014) |
| 16. | Dr. Chaitanya Lekshmi Indira, Associate Professor, Department of Chemistry, CMR Institute of Technology, Bangalore (July 2014) |
| 17. | Dr. Nahlah Elkhudssiah Ismail, Center for Industrial technology, Faculty of Applied Sciences, University Technology, Mara (July 2014) |
| 18. | Lecture series by Prof Kim,New Castle University, Australia |
| 19. | Prof .Vijaya Mohanan Pillai, CECRI, Karaikudi (April 2015) |
| 20. | Prof . Mohamed Mehdi CHEHIMI (Research Director at French CNRS,Leader of the Surface & Interface research team,Université Paris, France)(March 2015) |
| 21. | Dr. Praveen G. L (University of Kerala) (April 2015) |
| 22. | Linus Pauling Lecture Award |
| 23. | Dr C.V Asokan Memorial Lecture |
| 24. | Prof .Volker Ribitsch (University of Graz. Austria) (April 2015) |
| 25. | Dr. Maciej Jaroszewski(Head of High Voltage Laboratory Wroclaw University of Technology, Poland) (January 2015) |
| 26. | Prof. Suryasarathi Bose, (IISC, Bangalore) (January 2015) |
| 27. | Prof. Benjamin S Hsiao (Department of Chemistry, Stoney Brook University, New York) (January 2015) |
| 28. | Lecture by Dr. K. N. Ninan, Deputy Director, ISRO, Trivandrum |
| 29. | Lecture by Dr.K Radhakrishnan Former Director, ISRO, Trivandrum |



45. List the teaching methods adopted by the faculty for different programmes

- ICT enabled audiovisual teaching
- interactive sessions
- seminars and assignments
- flipped class room teaching
- industry visit
- projects

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The faculty council monitors the progress and output of various programmes periodically and necessary amendments are being made.

47. Highlight the participation of students and faculty in extension activities

| Sl. No. | Details |
|---------|---|
| 1. | Conducted a competition for college students on paper presentation(Dr .Sabu Thomas) |
| 2. | Professor Sabu Thomas, has conducted many lectures in colleges and schools in India as a part of promoting Nanoscience and Nanotechnology (Dr .Sabu Thomas) |
| 3. | Conducted student outreach programme at K.E School, Mannanam for promoting research in Science (Dr .Sabu Thomas) |
| 4. | Visited old age home and orphanage at Kottayam (Dr .Sabu Thomas) |
| 5. | Conducted a motivation class on “Emerging Youth” for National Service Scheme (NSS) Volunteers training camp held at Gov. H.S.S. T.V. Puram, Vaikom on 22 nd December 2015 (Dr. S. Anas) |
| 6. | Invited lecture on “Recent Trends Challenges and Progresses in Chemistry held at Govt. college Kasaragod during October 20-21-2014. |
| 7. | Interview for JRF at K .E. College, Mannanam 20 th March 2014 (Dr. S. Anas) |
| 8. | As observer for JEE(main) 2014 exam at Kozhikode centre on 5 th and 6 th April 2014 (Dr. S. Anas) |
| 9. | Teacher’s day talk at NHES, Chavady (Dr. S. Anas) |
| 10. | Camp director, career guidance workshop organized by sio, Thuravoor (Dr. S. Anas) |
| 11. | As observer for JEE(main) 2015 exam at Kozhikkod centre on d 4 th April 2015 (Dr. S. Anas) |
| 12. | Talk at Harithasparsham 2015 organized by Directorate of Higher Secondary Education (Dr. S. Anas) |
| 13. | As observer for JEE(main) 2016 exam at Kozhikkod centre on 3 rd April 2016 (Dr. S. Anas) |
| 14. | Resource person, INSPIRE, 2010 (Dr. Beena Mathew, Dr. K. S. Devaky) |
| 15. | Resource person for Kerala State STEC-INCULCATE programme 2010, 2011, 2012 & 2013 (Dr. Beena Mathew, Dr. K. S. Devaky and Dr. Raju Francis) |
| 16. | Open Day: To inculcate an aptitude for science among school children, School organized Open Day programme which include workshop and interaction with an eminent scholar. Students from nearby government schools are usually invited for this programme. |



| | |
|-----|--|
| 17. | Quiz competition for students from various affiliated colleges (2015-2016) |
| 18. | C.V Asokan Memorial Workshop for School children of the neighborhood schools on Basic concepts in chemistry(2015-2016) |
| 19. | As part of the Dr. C.V.Asokan Memorial Workshop an interactive session was arranged for school children (Govt.and Aided school) with Prof .E.D Jemmis Professor of Theoretical Chemistry, Indian Institute of Science, Bangalore about current trends in Science |
| 20. | Students are regularly participating in seminars and workshops of the department within and outside the university. |
| 21. | Students are also engaged in NSS programme |

48. Give details of “beyond syllabus scholarly activities” of the department:

| Sl. No | Details |
|--------|---|
| 1. | National Science Day Celebrations are carried out annually with an inspiring talk by Eminent Scientist. |
| 2. | Nationally and internationally renowned scientists have been invited to the department from time to time and opportunities are provided to the students for interaction with these scientists |
| 3. | Conducted a quiz competition for students from various affiliated colleges. |
| 4. | Conducted C.V Asokan Memorial Workshop for childrens of the neighborhood school on Basic concepts in chemistry |
| 5. | Organized excibitions for school children (Govt. and Aided schools) |

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: We have not tried for independent accreditation.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The publications made by the faculty members in several international journals stand testimony to the new knowledge generated in the Department.

51. Detail five Major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- Highly qualified faculty.
- Active research collaborations.
- Major research projects, publications and patents.
- Excellent infrastuctural facilities.
- Well placed alumni.

Weaknesses

- Insufficient administrative and technical staff.
- Problems in continuous power supply.



- Space constraints.
- Limited storage facility for water.
- Inadequate campus placements.

Opportunities

- Great potential for academic- industry collaboration.
- Excellent opportunity for students and faculty to interact with eminent academics.
- Opportunity to ensure student diversity.
- Opportunity for international collaboration.
- Opportunity to develop more patents.

Challenges

- Taking up of extension and consultancy services.
- To establish industry collaborations.
- Procedural delay in the repair sophisticated instruments.
- Handling of chemical waste.
- Ensuring campus placement to all students.

52. Future plans of the department

- Promoting research in multi-disciplinary areas.
- Promoting academic- industry collaborative research.
- Having classroom interaction with National/international experts.
- MoU with overseas universities and institutes.
- To increase the number of international collaborative research projects.
- Introducing microscale experiments in the M.Sc. laboratories to reduce chemical wastes.
- Rain water harvesting.
- Proper management of chemical wastes by selecting green routes for chemical reactions.



SCHOOL OF COMPUTER SCIENCES

| | | | |
|----|---|---|--|
| 1. | Name of the Department | : | School of Computer Sciences |
| 2. | Year of establishment | : | 1990 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science Faculty of Engineering and Technology |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <ul style="list-style-type: none"> • M.Sc. Computer Science • M.Tech. Computer Science and Technology (Specialisation: Communication and Network Technology) • M.Phil. Computer Science • Ph.D. |
| 5. | Interdisciplinary programmes and departments involved | : | <p>The students of Computer Sciences are given ample opportunity to take open courses of other schools and centres of the university.</p> <p>The school collaborates with Business Innovation and Incubation Centre (BIIC) of the University for student start-up programmes</p> |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | <p>During Master and M.Tech programmes students are sent out to different laboratories of academia and industries. Many of the master and Ph.D students are able to publish research articles during this period.</p> <p>Main Project (SKS15 401) of IVth Semester M Sc, Industrial Training(CS15304(P)), Master Research Project- Phase 1(CS15305(P)) and Master Research project – Phase 2(CS15401(P)) of 3rd and 4th Semesters M Tech.</p> |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System Annual/Semester/Trimester/Choice Based Credit System | : | Semester (Choice Based Credit System) |

| | | | | | | |
|-----|---|---|---|------------|---------------------|--|
| 9. | Participation of the department in the courses offered by other departments | : | The School offers open courses in 3rd semester of M.Sc to students of other Schools as per the CSS regulations of the University. | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual (including CAS & MPS) |
| | | | Professor | 1 | 1 | 1 |
| | | | Associate Professors | | | 3 |
| | | | Asst. Professors | 5 | 3 + 1 on long leave | - |
| | | | Others | | | 5(3 guests for M Tech + 1 contract and 1 guest for M.Sc) |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. students guided for the last 6 years |
|----------------------|---|---------------------|--|--|---|
| Dr. R. Vijayakumar | B Sc (Elec. Engg) M.Tech (CS) Ph.D (CS) | Professor | Artificial Intelligence | Teaching - 31 Years Research- 8 Years | Ph.D – 12 M Tech – 6 |
| Dr. Bindu V.R. | M.Sc., Ph.D. | Associate Professor | Image processing and Shape Modeling | 23 yrs. | Nil |
| Ms. Pushpalatha K.P. | MCA | Associate Professor | Data Mining | 21 yrs. | Nil |
| Dr. Anuj Mohamed | MCA, Ph.D. | Associate Professor | Pattern Recognition and Machine Learning | 21 yrs. | Nil |
| Dr. Abraham P. Korah | M.Sc. Ph.D. | Assistant Professor | ON LEAVE | | |



12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl. No | Name | Visiting Fellows/ Adjunct faculty/ Emeritus professors | Specialization |
|---------------|--|---|---|
| 1. | Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA | Scholar in Residence During 2010-11 | High Performance Computing |
| 2. | Dr. Roger B Dannenberg , Professor, SOCSAM, Carnegie Mellon University, Pennsylvania, USA | Adjunct faculty | Science of Music |
| 3. | Dr. Raju G, Prof.& HOD, Dept. of Information Technology, Kannur University, Kannur | Adjunct faculty | Soft Computing Image Processing Data Mining |
| 4. | Dr. Varghese Paul, Prof.& HOD, Dept of IT, CUSAT, Cochin | Adjunct faculty | Cryptography and Network Security |
| 5. | Prof. (Dr.) S.K. Sinha, CEDT, Indian Institute of Science, Bangalore. | Visiting Fellow | Computing Paradigms |
| 6. | Dr. Prahlad Vadakkeppatt , Professor of National University of Singapore | Visiting Fellow | Robotics and AI |
| 7. | Prof. (Dr.) Paulose Jacob, HOD, Department of Computer Science, Cochin university of Science and Technology, Kerala. | Visiting Fellow | Computer Networking |
| 8. | Prof. (Dr.) Achuth Sankar S. Nair, Director, Department of Computational Biology and Bioinformatics, University of Kerala. | Visiting Fellow | Bioinformatics |
| 9. | Ms. Easwari PV, Senior consultant, Siemens Information Systems Limited, Bangalore. (also an alumnus of the School) | Visiting Fellow | Software Engineering |
| 10. | Pradeep P. Project Co-ordinator/ Analyst, FINGENT Technology Solutions, Infopark, Kochi | Visiting Fellow | Software Engineering |

13. Percentage of classes taken by temporary faculty – programme-wise information

| Programme | 2010-16 |
|-----------|---------|
| M.Sc | 40 % |
| M.Tech | 75 % |
| M.Phil | 0% |
| Ph.D. | 0% |

14. Programme-wise Student Teacher Ratio

| Programme | Ratio |
|-----------|-------|
| M.Sc | 10:1 |
| M.Tech | 9:1 |
| M.Phil | 2:1 |
| Ph.D. | 6:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| | Sanctioned | Filled | Actual |
|-----------------------------|------------|--------|---------------------|
| Technical | 2 | 2 | 2 |
| Administrative Staff | 4 | 4 | 4 + 1 casual worker |

16. Research thrust areas as recognized by major funding agencies:

- Artificial Intelligence
- Pattern Recognition
- Image Processing and Computer Graphics
- Design and Analysis of Algorithms
- Soft Computing
- Data Mining
- Advanced and Wireless Networking
- Internet programming
- Internet of Things Cloud Computing
- Advanced Computing Paradigms.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration : Nil
- b) International collaboration : Nil



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc;

Total grants received: Nil.

20. Research facility / centre with

- State Recognition : Yes
- National Recognition : Yes(AICTE)
- International Recognition : Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 16 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 33 |
| 4. | Chapters in Books | 17 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 69 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 9

- Citation Index – range : 1-17 / average – 7
- SNIP : 0.207 - 0.479
- SJR – range : 0.14 - 0.24
- Impact Factor : 2
- h-index : 2

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated :

- Proposal submitted as plan proposal for 2017-18 for setting up Digital Solutions and Consultancy Services (DSACS) in the school, currently conceived as a five year project.
- Software for automating Credit Semester Systems, Provident Fund and Accounts sections of the University have been provided by the School as consultancy services.

25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad : Nil**26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other**

- **National committees:** Nil
- **International committees:**

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| | Dr. Bindu V.R. | 1. Professional member of ACM (Association of Computing Machinery). 2. Life Member – IAENG (International Association of Engineers) |
| | Dr. Anuj Mohamed | 1. Life Member – IAENG (International Association of Engineers) 2. Professional Member of ACM (Association of Computing Machinery). |

- **Editorial Boards:**

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| | Dr.R. Vijayakumar | 1. Editor, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012 . ISSN: 2318-8850 |
| | Dr. Bindu V.R. | 1. Member, Technical Advisory Committee, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012, ISSN: 2318-8850. |
| | Dr. Anuj Mohamed | 2. Member, Technical Advisory Committee, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012. ISSN: 2318-8850. |

- **any other (please specify) :**



| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Dr.R. Vijayakumar | <ol style="list-style-type: none"> 1. Adjunct Professor, Centre for Bio Informatics , University of Kerala, Kariyavattom , Trivandrum 2. 04-06-2011 onwards 3. Member Kerala State Planning board (IT) , Kerala (from 2015 onwards) 4. Dean(Engineering & Technology), Member Syndicate /Academic Council, Mahatma Gandhi University : 18-08-2014 to 18-07-2016 5. Director, College Development Council 2012-2016, MGU. 6. Chairperson, Board of Studies Computer Science and Applications (PG), MGU 7. Governing Council Member SB College (Autonomous) From January 2015 onwards Nominee from Mahatma Gandhi University 8. Member , Academic Council , CUSAT: From 11-03-2015 onwards -- Ex-OFFICIO NOMINEE of the Hon'ble Vice-Chancellor , Mahatma Gandhi University |
| 2. | Dr. Bindu V.R. | <ol style="list-style-type: none"> 1. Dean, Faculty of Technology and Applied Science, MG University. 2. Member, Academic Council, MG University. 3. Chairperson, Board of Studies, School of Computer Sciences, MG University. 4. Chairperson, Board of Studies in Computer Science and Applications (PG), MGU 30.4.2010-29.4.2013. 5. Member, Board of Studies Computer Science (PG), University of Kerala 26.3.2010-25.3.2013, 20.11.2013-19.11.2016. 6. Question Paper setter for Kerala Public Service Commission. 7. Member of Expert Committee to strengthen the System Administration Wing of the University. 8. Chief Co-ordinator of the Spoken Tutorial Project (an initiative of NMEICT, Ministry of Human Resource Development, Govt. of India), in the University. 9. Presiding Officer, Permanent Cell to Combat Sexual Harassment in the University. 10. Member of University level Implementation and Monitoring Committee (E-Governance) 11. Member of the Technical committee to assess the Software/Hardware requirements for the e-learning project of the University. 12. Member of e-learning/ICT Committee for e-learning project approval, e-content approval and for taking other decisions related to e-learning and net working in the University. |

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| | | 13. Member of the Revision Committee for drafting revised CSS Regulations of the University implemented from 2016 admissions. |
| 3. | Ms.Pushpalatha K.P. | <ol style="list-style-type: none"> 1. Member, Board of Studies, Computer Sciences (PG), School of Computer Sciences, Mahatma Gandhi University, Kottayam. 2. Member of Board of Studies, Computer Science & Applications(Pass), Mahatma Gandhi University, Kottayam from April 2009 to 2012. 3. Member, permanent cell to combat sexual harassment in the University. 4. Member of e-learning/ICT Committee for e-learning project approval, e-content approval and for taking other decisions related to e-learning and networking 2015. |
| 4. | Dr. Anuj Mohamed | <ol style="list-style-type: none"> 1. Member – IQAC of the University. 2. Member, Board of Studies, School of Computer Sciences, MGU. 3. Member, BOS in Computer Science (Pass), University of Kerala 19/1/2010 to 18/1/2013 4. Member, BOS in Computer Science and Applications(PG), Mahatma Gandhi University 30/4/2010 to 29/4/2013 5. Convenor, Anti Harassment Cell of the University 10/8/2010 to 9/8/2012 6. Member, Implementation and Monitoring Committee for Campus Wide Networking, Mahatma Gandhi University,2010-11. |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):

All the faculty members have undergone Orientation and Refresher programmes as per UGC requirements, and regularly attend various faculty development programmes organized by other academic bodies/institutions.

| Year | Name of the faculty | Committee |
|---------|-------------------------|---|
| 2010-11 | Prof. Dr. R Vijayakumar | <ol style="list-style-type: none"> 1. Resource Person: Workshop on “Teaching Learning Process”, School of Computer Sciences, April 6, 2011. 2. National Conference on “Computing and Communication (NCCC 2011)”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011. |
| | Dr. Bindu V R | <ol style="list-style-type: none"> 1. National Workshop on “Digital Content Authoring Technology and Use of Open Educational Resources”, IGNOU, Kochi, 10/6/2010 To 13/6/2010. |



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| | | <ol style="list-style-type: none"> 2. National Symposium on Public Key Infrastructure Outreach Programme- Nationwide PKI awareness Programme, CDAC Bangalore And Controller of Certifying Authorities, Govt. of India, 19/8/2010. 3. "Orientation Programme for Women Counsellors of Affiliated Colleges", 4. Department of Student Services, Mahatma Gandhi University, 13/01/2011. 5. Workshop on "Tour Making", Mr. Aravind Paranjpye, Officer for Science Popularization, IUCAA, Pune, October 18-19, 2010. 6. Seminar on "Cyber Crimes", Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010. 7. Workshop on "FOSS and BOSS", Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010. 8. Workshop on "e-Astronomy and Statistics", organized by School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011. 9. Seminar on "Best Programming Practices", Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011. 10. Workshop on "Computer Networking Leading to CCNA Certification", March 16, 2011. 11. Workshop on "MCA Syllabus Revision", Mahatma Gandhi University, 24-25 March 2011 and 12th May 2011. 12. Workshop on "Teaching Learning Process", Dr. R. Vijayakumar, School of Computer Sciences, April 6, 2011. 13. National Conference on "Computing and Communication (NCCC 2011)", School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011. |
| | Ms. Pushpalatha K.P. | <ol style="list-style-type: none"> 1. International Conference on "Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010)", Mahatma Gandhi University, December 6-10, 2010. 2. Seminar on "Cyber Crimes", Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010. 3. Workshop on "FOSS and BOSS", Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010. 4. Presented a paper at 2010 IEEE International Conference on Computational Intelligence and Computing Research, Coimbatore, 28--29, December 2010. 5. Workshop on "e-Astronomy and Statistics", organized by |



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| | | <p>School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011.</p> <ol style="list-style-type: none"> 6. Seminar on “Best Programming Practices”, Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011. 7. Lecture by Prof. Sir. Anthony J. Leggett, Nobel Laureate, University of Illinois. (Erudite Scholar- Mahatma Gandhi University), January 31, 2011. 8. Workshop on “MCA Syllabus Revision”, Mahatma Gandhi University, 24-25 March 2011 and 12th May 2011. 9. Workshop on “Teaching Learning Process”, Dr. R. Vijayakumar, School of Computer Sciences, April 6, 2011. 10. National Conference on “Computing and Communication (NCCC 2011)”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011. |
| | Dr. Anuj Mohamed | <ol style="list-style-type: none"> 1. Workshop on “Digital Content Authoring Technology and Use of Open Educational Resources”, IGNOU, Regional Centre, Cochin, June 10-13, 2010. 2. One day symposium on “PKI Outreach” organized by CDAC, Bangalore and Controller of Certifying Authorities, Govt. of India, as part of the Nationwide PKI Awareness Programme , Kochi, August 19, 2010. 3. Presented a paper at Conference on “Emerging Trends in Computing” organized as part of Amrita ACM-W Celebration of Women in Computing (A2CW;C 2010) “, Department of Computer Science and Engineering, Amrita Vishwa Vidyapeetham University, Coimbatore, September 16-17, 2010. 4. Workshop on “Tour Making”, Mr. Aravind Paranjpye, Officer for Science Popularization, IUCAA, Pune, October 18-19, 2010. 5. International Conference on “Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010)”, Mahatma Gandhi University, December 6-10, 2010. 6. Seminar on “Cyber Crimes”, Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010. 7. Workshop on “FOSS and BOSS”, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010. 8. Workshop on “e-Astronomy and Statistics”, organized by School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011. 9. Seminar on “Best Programming Practices”, Dr. Ashish |



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| | | <p>Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011.</p> <p>10. Lecture by Prof. Sir. Anthony J. Leggett, Nobel Laureate, University of Illinois. (Erudite Scholar- Mahatma Gandhi University), January 31, 2011.</p> <p>11. Workshop on “Computer Networking Leading to CCNA Certification”, March 16, 2011.</p> <p>12. Workshop on “MCA Syllabus Revision”, Mahatma Gandhi University, 24-25 March 2011 and 12th May 2011.</p> <p>13. Workshop on “Teaching Learning Process”, Dr. R. Vijayakumar, School of Computer Sciences, April 6, 2011.</p> <p>14. National Conference on “Computing and Communication (NCCC 2011)”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011.</p> |
| 2011-2012 | Prof. Dr. R Vijayakumar | <p>1. Seminar on “Computational Intelligence, Robotics and Autonomous Systems” by Dr. Prahlad Vadakkeppat, National University of Singapore, January 3rd, 2012.</p> <p>2. Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012.</p> |



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|--|----------------------|---|
| | Dr. Bindu V.R. | <ol style="list-style-type: none"> 1. Workshop on “Laws Related to Sexual Harassment” organized by Anti-Harassment Cell of Mahatma Gandhi University, Kottayam, Kerala in June 2011. 2. Brainstorming Workshop on “Unicode Malayalam DTP Software Project”- organized by the Project Co-ordinator, Unicode Malayalam DTP Software Project, Mahatma Gandhi University, July 19, 2011 3. DTE Sponsored Short Term Training Programme on “Soft Computing Techniques for Engineering Research” organized by Govt. Engineering College (Rajiv Gandhi Institute of Technology), Kottayam, Kerala, 14-19 November 2011. 4. Presented a paper at IEEE International Conference on Computational Intelligence and Computing Research (2011 IEEE ICCIC) Dec 15-18, 2011. 5. Three day workshop on “Academic Writing Skills” organized by Kerala State Council for Science Technology and Environment (KSCSTE), Kerala Forest Research Institute (KFRI) and Centre for Information Literacy Studies (CILS), University of Kerala, at KFRI, Peechi, Thrissur, 21-23 December 2011. 6. Seminar on “Computational Intelligence, Robotics and Autonomous Systems” by Dr. Prahlad Vadakkeppat, National University of Singapore, January 3rd, 2012. 7. Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012. 8. Workshop on “Research Methodology” by Prof. (Dr.) Achuth Sankar S. Nair, Director, State Inter University Centre of Excellence in Bio-Informatics, University of Kerala organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012. 9. Theme Discussion on “Green Computing” organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012. 10. Three day Workshop on “M.Sc Syllabus Revision” as Chairperson, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala on 6-8 March 2012. |
| | Ms. Pushpalatha K.P. | <ol style="list-style-type: none"> 1. Workshop on “Laws Related to Sexual Harassment” organized by Anti-Harassment Cell of Mahatma Gandhi University, Kottayam, Kerala, June 2011. 2. Brainstorming Workshop on “Unicode Malayalam DTP Software Project”- organized by the Project Co-ordinator, Unicode Malayalam DTP Software Project, Mahatma Gandhi University, July 19, 2011 3. Workshop on “Research Methodology” by Prof. (Dr.) Achuth Sankar S. Nair, Director, State Inter University |

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| | | <p>Centre of Excellence in Bio-Informatics, University of Kerala organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012.</p> <ol style="list-style-type: none"> 4. Theme Discussion on “Green Computing” organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012. 5. Presented a paper at International Conference on Advances in Computing (ICAC 2011), Department of CSE, PSG College of Technology, Coimbatore, Dec 9-11, 2011. 6. Under UGC’s Faculty Improvement Programme till July 2012. 7. Presented a paper at Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012. 8. Presented a paper at IEEE International Conference on Technology Enhanced Education (ICTEE2012), Amrutha University, Kollam, Kerala, January 2012. |
| | Dr. Anuj Mohamed | <ol style="list-style-type: none"> 1. Workshop on “Laws Related to Sexual Harassment” as Convenor, Anti-Harassment Cell, Mahatma Gandhi University, Kottayam, Kerala, June 2011. 2. DTE Sponsored Short Term Training Programme on “Soft Computing Techniques for Engineering Research” organized by Govt. Engineering College, Kottayam, Kerala, November 2011. 3. DTE Sponsored Short Term Training Programme on “Recent Trends in Audio and Speech Processing” organized by Govt. Engineering College, Kottayam, Kerala, November 2011. 4. Seminar on “Computational Intelligence, Robotics and Autonomous Systems” by Dr. Prahlad Vadakkeppat, National University of Singapore, January 3rd, 2012. 5. Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012. 6. Presented a paper at International Conference on “Communication Technology and System Design”, Amrita Vishwa Vidyapeetham, Coimbatore, 2011. 7. Attended a Workshop on “Research Methodology” by Prof. (Dr.) Achuth Sankar S. Nair, Director, State Inter University Centre of Excellence in Bio-Informatics, University of Kerala organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, and January 2012. |

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| | | <ol style="list-style-type: none"> 8. Attended a Theme Discussion on “Green Computing” organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012. 9. Attended a three day Workshop on “M.Sc Syllabus Revision” organized by Ms.Bindu V.R. as Chairperson, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala on 6-8 March 2012. |
| 2012-2013 | Prof. Dr. R Vijayakumar | <ol style="list-style-type: none"> 1. Attended a national level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012. 2. Skill enhancement workshop on “ Open source software “organized by the School during 2012 , inaugurated by Dr. Iqbal , former Vice-chancellor of Kerala University. |
| | Dr. Bindu V.R. | <ol style="list-style-type: none"> 1. Attended a national level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012. 2. Skill enhancement workshop on “ Open source software “organized by the School during 2012 , inaugurated by Dr. Iqbal , former Vice-chancellor of Kerala University. |
| | Ms. Pushpalatha K.P. | <ol style="list-style-type: none"> 1. Under UGC’s Faculty Improvement Programme till July 2012. 2. Attended a national level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012. 3. Skill enhancement workshop on “ Open source software “organized by the School during 2012 , inaugurated by Dr. Iqbal , former Vice-chancellor of Kerala University. |
| | Dr. Anuj Mohamed | <ol style="list-style-type: none"> 1. Attended a Seminar on “Recent Trends in Sound Recording” by Dr. Pradeep Somasundaram, organized by Inter University Centre for Sound and Music, Mahatma Gandhi University, Kottayam, Kerala. 2. Attended a national level technical talk on “NP Complete Problems and 3. High Performance Computing” as part of Interface2012 in Dec, 2012. 4. Skill enhancement workshop on “ Open source software “organized by the School during 2012 , inaugurated by Dr. Iqbal , former Vice-chancellor of Kerala University. 5. UGC Sponsored SAM Workshop on “Capacity Building of Women Managers in Higher Education” , CMS College, Kottayam, April 2013. |
| 2013-2014 | Prof. Dr. R. Vijayakumr | <ol style="list-style-type: none"> 1. National Seminar on “Computing and Communication” at School of Computer Sciences, December 2013. 2. One day Induction Traininng programme for Aided and Govt Teachers of Southern Region of Kerala, with the help of Flair Group ,Higher Education Dept , Govt of Kerala on 03/08/2013 ; Venue: Seminar Hall , School of Environmental Sciences.- Co-ordinated by Prof & HoD |



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| | | <p>Dr.R.Vijayakumar , DCDC as per Directions of Registrar and Hon'ble VC.</p> <ol style="list-style-type: none"> 3. A workshop for Lateral Entry MCA (LMCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme held on 06-09-2013 . 4. A workshop on Double Degree MCA (DD MCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme held on 11-10-2013. |
| | Dr. Bindu V.R. | <ol style="list-style-type: none"> 1. One-week long ISTE-SRM short term training programme on "Image Processing" organized by College of Engineering, Attingal and sponsored by Indian Society of Technical Education, New Delhi during 3rd June to 9th June 2013. 2. 2.State Level workshop on e-governance, Thiruvananthapuram, June 2013 3. A workshop for Lateral Entry MCA (LMCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme -----06-09-2013 4. One day ISTE e-Workshop on "Creative Teaching" at School of Computer Sciences, October 2013. 5. A workshop on Double Degree MCA (DD MCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme -----11-10-2013 6. 6. National Seminar on "Computing and Communication" organized by School of Computer Sciences, December 2013. 7. 3-day National Workshop on Computer Vision and Image Processing Techniques organized by Amrita School of Engineering, Coimbatore during Feb 6-8, 2014. 8. Presented a research paper at the IEEE International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2014) held at the PRIST University, at Chennai, India during Feb 17-19, 2014. |
| | Ms. Pushpalatha K P | <ol style="list-style-type: none"> 1. Short Term Training Programme on "Pattern Recognition" organized by Govt. Engineering College, Kottayam, June 2013 2. A workshop for Lateral Entry MCA (LMCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme -----06-09-2013 3. One day ISTE e-Workshop on "Creative Teaching" at School of Computer Sciences, October 2013. 4. A workshop on Double Degree MCA (DD MCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme -----11-10-2013 5. National Seminar on "Computing and Communication" organized by School of Computer Sciences, December 2013. |

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| | Dr. Anuj Mohamed | <ol style="list-style-type: none"> 1. Short Term Training Programme on “Pattern Recognition” organized by Govt. Engineering College, Kottayam, June 2013 2. State Level workshop on e-governance, Thiruvananthapuram, June 2013 3. A workshop for Lateral Entry MCA (LMCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme -----06-09-2013 4. One day ISTE e-Workshop on “Creative Teaching” at School of Computer Sciences, October 2013. 5. A workshop on Double Degree MCA (DD MCA) Formulation of Scheme ,Syllabi and Regulation for the newly introduced programme -----11-10-2013 6. National Seminar on “Computing and Communication” organized by School of Computer Sciences, December 2013. 7. Workshop on “Speech Processing” organized by Govt. Engineering College, Kottayam, December 2013 |
| 2014-2015 | Prof. Dr. R Vijayakumar | <ol style="list-style-type: none"> 1. Devamatha College, Kuravilangad – delivered the inaugural address in the UGC sponsored National Seminar. 2. Sullamussalam Science College, Malappuram – delivered the inaugural address in the National Conference on Advances in Computing , Communication and Applications (ACCA’15) . 3. TITUS II Teacher Education College, Thiruvalla– delivered the valedictory address in the National Seminar on “ Learning opportunities- ICT Education” 4. FISAT , Angamali, Ernakulam - delivered the keynote address in the 4th International Conference on “ Advanced Computing and communication Technologies for HPC Applications “ 5. .Newman College, Thodupuzha- delivered the inaugural address in the National Seminar on “ Cyber Space and Security “. 6. Attended an International Seminar on “Talking Like Humans” by Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland on 6th December, 2014 as part of Interface 2014. 7. Attended a workshop on ‘NAAC Accreditation’ organized by the University on 19th March 2015. |
| | Dr. Bindu V.R. | <ol style="list-style-type: none"> 1. Invited talk on “Fuzzy Logic” at Assumption College, Changanassery on 1.10.2014. 2. Workshops/Seminars 3. Organized awareness workshop on Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India), as Chief Co-ordinator of the University for the faculty members from the departments of Computer Science and Engineering/Computer Applications/IT of |



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| | | <p>the various institutions under M G University on 27th August 2014</p> <ol style="list-style-type: none"> 4. National seminar at School of Computer Sciences by Dr Manjaiah, Professor, Dept. of Studies and Research in Computer Science, Mangalore University on “Systems Programming” on 21st July 2014. 5. National E-seminar “Steps2Research” at School of Computer Sciences during 19-20 September 2014. 6. International Seminar on “Talking Like Humans” by Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland on 6th December, 2014 as part of Interface 2014. 7. Presented a paper at International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha. 8. Presented a paper at the Second International Conference on Information Systems Design and Intelligent Applications – 2015(INDIA 015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management , University of Kalyani, West Bengal, India. 9. ‘Training A-view System’ for the faculty members and technical staff of the School on 23rd February 2015. 10. Two Day Women’s Workshop on RESOURCE BUILDING FOR GENDER SENSITISATION IN HIGHER EDUCATION organized by the Kerala State Higher Education Council on 28/2/2015 and 1/3/2015 at Thiruvananthapuram. 11. Workshop on ‘NAAC Accreditation’ organized by the University on 19th March 2015. |
| | Ms.Pushpalatha K.P. | <ol style="list-style-type: none"> 1. National seminar at School of Computer Sciences by Dr Manjaiah, Professor, Dept. of Studies and Research in Computer Science, Mangalore University on “Systems programming” on 21st July 2014. 2. Awareness workshop on Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India) for the faculty members from the departments of Computer Science and Engineering/Computer Applications/IT of the various institutions under M G University on 27th August 2014. 3. National E-seminar “Steps2Research” at School of Computer Sciences during 19-20 September 2014. 4. International Seminar on “Talking Like Humans” by Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland on 6th December, 2014 as part of Interface 2014. 5. Workshop on ‘Training A-view System’ on 23rd February 2015 organized by the School. |



| | | |
|-----------|-------------------------|---|
| | Dr. Anuj Mohamed | <ol style="list-style-type: none"> 1. National seminar at School of Computer Sciences by Dr Manjaiah, Professor, Dept. of Studies and Research in Computer Science, Mangalore University on “Systems programming” on 21st July 2014. 2. Awareness workshop on Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India) for the faculty members from the departments of Computer Science and Engineering/Computer Applications/IT of the various institutions under M G University on 27th August 2014. 3. National E-seminar “Steps2Research” at School of Computer Sciences during 19-20 September 2014. 4. International Seminar on “Talking Like Humans” by Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland on 6th December, 2014 as part of Interface 2014. 5. Presented a paper at International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha. 6. Presented a paper at Second International Conference on Information Systems Design and Intelligent Applications – 2015(INDIA 015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management , University of Kalyani, West Bengal, India. 7. Workshop on ‘Training A-view System’ on 23rd February 2015 organized by the School. 8. Workshop on ‘NAAC Accreditation’ organized by the University on 19th March 2015. |
| 2015-2016 | Prof. Dr. R Vijayakumar | <ol style="list-style-type: none"> 1. Organizer & Resource Person for Faculty development programme for Teachers from 30th July 2015 to 12th August 2015 as Director, College Development council(DCDC) 2. Attended a one day Workshop on Syllabus Revision of M.Sc and M.Tech of the School on 9.06.2015. 3. Attended a workshop/training session on Spoken Tutorial Project (an initiative of NMEICT, Ministry of Human Resource Development, Govt. of India) on 12.08.2015 4. Attended a workshop on “Framing of Scheme and Syllabus of M Phil Computer Science” at School of Computer Sciences on 08.09.2015. 5. Attended a seminar on “Image Processing Technologies for Defence Applications” by Dr. Lekshmi S, Scientist , NPOL (also an alumnus of the School), on 4.12.2015. 6. Attended the “NAAC Workshop on Documents to be Prepared” organized by the University on 12.04.2016. |
| | Dr. Bindu V R | <ol style="list-style-type: none"> 1. User Awareness Programme on Plagiarism on 3/6/2015 for Faculty, Researchers and Students, organized by University Library, Mahatma Gandhi University. |



| | | |
|--|--|---|
| | | <ol style="list-style-type: none"> 2. Workshop on “M Sc and M Tech Syllabus Revision” as Chair Person, BOS, School of Computer Sciences on 9/6/2015. 3. Participated in the Consultative Meeting with “Committee on Gender Justices in Campuses” organized by the Kerala State Higher Education Council on 29.07.2015. 4. Workshop/training session on Spoken Tutorial Project (an initiative of NMEICT, Ministry of Human Resource Development, Govt. of India) as the chief-coordinator of the University on 12.08.2015 5. Workshop on “Framing of Scheme and Syllabus of M Phil Computer Science” as Chair Person, BOS, School of Computer Sciences on 08.09.2015. 6. “International Seminar on Science of Music” organized by Inter University Centre for Studies in Science of Music and Mahatma Gandhi University during 25-27 September 2015 7. Participated in the conference to streamline the admission and academic excellence on MCA 2016-17 representing the University. The meeting was convened by “Admission Supervisory Committee and Fee Regulatory Committee for Professional Colleges of Kerala” chaired by Justice J S James at Thiruvananthapuram on 27.10.2015. 8. 3 day workshop on “Network Simulator 2” (19.11.15 to 21.11.15) as part of Capacity Building and Knowledge Upgradation for faculty members and M Sc/M Tech and Research students of the School. 9. Orientation Programme on “NAAC Accreditation” organized by the University on 26.11.2015. 10. Seminar on “Image Processing Technologies for Defence Applications” by Dr. Lekshmi S, Scientist , NPOL (also an alumnus of the School), on 4.12.2015. 11. As professional member of ACM, attended the ACM-India Annual Event 2016 held on 22.01.2016 at Thiruvananthapuram. 12. National level 3-day E-conference 28.01.2016 to 30.01.2016. The School participated as a Nodal Centre in the National Conference on Research in Emerging Areas (NACORE 2016). 13. Two-day National Workshop on “India’s First Cloud Computing Championship – IFC3 INDIA” in collaboration with Neuromancers, IIT Bhubaneswar and Infero, Scitech Council IIT Hyderabad from 9.02.16 to 10.02.16. 14. Attended the District Innovation Committee meeting held on 23/02/2016 convened by the District Collector, Kottayam. |
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|--|----------------------|--|
| | | <p>15. National Workshop on Cyber Crimes and Cyber laws organized by School of Indian Legal Thought, MGU during 27th and 28th February 2016.</p> <p>16. Chaired the programme in connection with the commemoration of World Zero Discrimination Day on 1st March 2016, conducted by Inter University Centre for Disability Studies(IUCDS), School of Behavioral Sciences in association with NSS and DSU, M G University.</p> <p>17. Workshop on “NAAC Accreditation” organized by the University on 12.04.2016.</p> <p>18. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016.</p> <p>19. Workshop on “Cloud Solutions and Implementation” for faculty and technical staff of the School on 28.06.2016.</p> |
| | Ms. Pushpalatha K.P. | <p>1. Workshop on Syllabus Revision of M.Sc and M.Tech of the School on 9.06.2015</p> <p>2. Workshop/training session on Spoken Tutorial Project (an initiative of NMEICT, Ministry of Human Resource Development, Govt. of India) on 12.08.2015</p> <p>3. Workshop on “Framing of Scheme and Syllabus of M Phil Computer Science” at School of Computer Sciences on 08.09.2015. The scheme and syllabi for the new M Phil programme to be commenced in the School in the current academic year was framed.</p> <p>4. 3 day workshop on “Network Simulator 2” (19.11.15 to 21.11.15) organized as part of Capacity Building and Knowledge Upgradation of Faculty</p> <p>5. Seminar on “Image Processing Technologies for Defence Applications” by Dr. Lekshmi S, Scientist , NPOL (also an alumnus of the School), on 4.12.2015.</p> <p>6. National level 3-day E-conference 28.01.2016 to 30.01.2016. The School participated as a Nodal Centre in the National Conference on Research in Emerging Areas (NACORE 2016).</p> <p>7. Two-day National Workshop on “India’s First Cloud Computing Championship – IFC3 INDIA” in collaboration with Neuromancers, IIT Bhubaneswar and Infero, Scitech Council IIT Hyderabad from 9.02.16 to 10.02.16.</p> <p>8. “NAAC Workshop on Documents to be Prepared” organized by the University on 12.04.2016.</p> <p>9. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016</p> <p>10. Workshop on “Cloud Solutions and Implementation” for faculty and technical staff of the School on 28.06.2016.</p> |
| | Dr. Anuj Mohamed | <p>1. One day workshop on syllabus revision of M.Sc and M.Tech of the School on 9.06.2015</p> |



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| | | <ol style="list-style-type: none"> 2. Workshop/training session on Spoken Tutorial Project (an initiative of NMEICT, Ministry of Human Resource Development, Govt. of India) on 12.08.2015 3. Workshop on “Framing of Scheme and Syllabus of M Phil Computer Science” at School of Computer Sciences on 08.09.2015. 4. “International Seminar on Science of Music” organized by International Centre for Studies in Science of Music and Mahatma Gandhi University from 25.9.15 to 27.9.15 5. 3 day workshop on “Network Simulator 2” (19.11.15 to 21.11.15) organized as part of Capacity Building and Knowledge Upgradation of Faculty members as well as M Sc/M Tech and Research students of the School. 6. Orientation Programme on “NAAC Accreditation” organized by the University on 26.11.2015. 7. Seminar on “Image Processing Technologies for Defence Applications” by Dr. Lekshmi S, Scientist, NPOL (also an alumnus of the School), on 4.12.2015. 8. As professional member of ACM, attended the ACM-India Annual Event 2016 held on 22.01.2016 at Thiruvananthapuram. 9. National level 3-day E-conference 28.01.2016 to 30.01.2016. The School participated as a Nodal Centre in the National Conference on Research in Emerging Areas (NACORE 2016) 10. Two-day National Workshop on “India’s First Cloud Computing Championship – IFC3 INDIA” in collaboration with Neuromancers, IIT Bhubaneswar and Infero, Scitech Council IIT Hyderabad from 9.02.16 to 10.02.16. 11. “NAAC Workshop on Documents to be Prepared” organized by the University on 12.04.2016. 12. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016 13. Workshop on “Cloud Solutions and Implementation” for faculty and technical staff of the School on 28.06.2016. |
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28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : Nil
- percentage of students doing projects in collaboration with other universities industry / institute : 100%

29. Awards / recognitions received at the national and international level by

- Faculty : Nil
- Doctoral / post-doctoral fellows : Nil
- Students : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.

| Year | | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|---------|---|---|---|--|
| 2010-11 | 1 | Workshop on “Tour Making”, October 18-19, 2010 | Mahatma Gandhi University | Mr.Aravind Paranjpye, Officer for Science Popularization, IUCAA, Pune. |
| | 2 | Seminar on “Cyber Crimes”, December 17, 2010. | Mahatma Gandhi University | Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, |
| | 3 | Workshop on “FOSS and BOSS” | Mahatma Gandhi University | Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, |
| | 4 | Workshop on “e-Astronomy and Statistics”, organized by School of Pure and Applied Physics in association with School of Computer Sciences January 17-19, 2011 | Scholar in Residence Programme Funded by Government of Kerala | Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA Dr. Archana Pai, Indian Institute of Science Engineering and Research (IISER), Trivandrum |
| | 5 | Seminar on “Best Programming Practices”, January 20, 2011. | „ | Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University). |
| | 6 | National Conference on “Computing and Communication”, May 26-27, 2011. | Mahatma Gandhi University | Prof. (Dr.) S.K. Sinha, CEDT, Indian Institute of Science, Bangalore. (Dr.) AchuthSankar S. Nair, Director and Sri. Umesh, Assistant Professor, State Inter University Center of Excellence in Bio-Informatics, University of Kerala. |
| | | Workshop on “Teaching Learning Process”, 2011. | | Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam |



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| | 8 | Workshop on “MCA Syllabus Revision”, 24-25 March 2011. | „ | |
| | 9 | Workshop on “MCA Syllabus Revision”, 12 May 2011. | “ | |
| 2011-12 | 1 | National level seminar, December 2011. | „ | Ms. Easwari PV, Senior consultant, Siemens Information Systems Limited, Bangalore. (also an alumnus of the School). Dr. Achuth Sankar S Nair, Hon. Director, Centre for Bio-Informatics. |
| | 2 | Conference on “Computing Paradigms and Bio-informatics” (CPBI 2012), January, 2012. | „ | Prof. (Dr.) Achuth Sankar S. Nair, Director, State Inter University Center of Excellence in Bio-Informatics, University of Kerala. Prof. (Dr.) Paulose Jacob, HOD, Department of Computer Science, Cochin university of Science and Technology, Kerala. |
| | 3 | Seminar on “Computational Intelligence, Robotics and Autonomous Systems” January 3rd, 2012. | | Dr. Prahlad Vadakkeppat, National University of Singapore, |
| 2012-13 | 1 | Workshop on “ Open source software | | Dr.Iqbal, former Vice-chancellor of Kerala University. |

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|---------|---|--|---------------------------|--|
| | 2 | National level technical talk on “NP Complete Problems and High Performance Computing” Dec, 2012. | Mahatma Gandhi University | Mr. Mahesh, FISAT |
| 2013-14 | 1 | School was a nodal centre for the One day ISTE e-Workshop on “Creative Teaching”, October 5 th 2013 through A-View, an e-learning software. The Seminar was conducted by the Department of Computer Science & Engineering and Computer Applications of AmalJyothi College of Engineering. | ISTE | Dr.MuktaAtrey, Senior Project Manager, ProjectEkalavya,IIT Bombay Prof.Dr.Sabu Thomas, School of Chemical Science, MG University, Kottayam |
| | 2 | National Seminar on “Computing and Communication” at School of Computer Sciences, December 2013. | Mahatma Gandhi University | Dr. K.P. Soman, Prof. & HOD, Centre for Excellence in Computational Engineering, Amrita VishwaVidyapeetham, Coimbatore Dr.Sumithra S Nair, Indian Institute of Space Science and Technology (ISTE), Thiruvananthapuram Sri. Krishnan Chittoor, S/W Developer, Microsoft India Ltd. |
| 2014-15 | 1 | A seminar on “Systems Programming” on 21.07.2014. | | Dr Manjaiah, Professor, Dept. of Studies and Research in Computer Science, Mangalore University |
| | 2 | Spoken Tutorial project(an initiative of NMEICT, MHRD, Govt. of India) in the University, a training session at School of Computer Science and Engineering/Computer | MHRD, NMEICT | Mr.Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay. |



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| | | Applications/IT institutions under M G University on 27.08.2014. | | |
| | 3 | Seminar on “Research Topics for M Tech Dissertation” on 18.09.2014. | Mahatma Gandhi University | Dr Madhu S Nair, Asst. Professor, Dept. of Computer Science, University of Kerala |
| | 4 | School was a nodal centre for the National E-seminar “Steps2Research” during 19-20 Sept 2014 through A-View, an e-learning software. The Seminar was conducted by the Department of Computer Science & Engineering and Computer Applications of AmalJyothi College of Engineering. | ISTE | Prof.Dr.D.B. Phatak,IIT Bombay Dr.MuktaAtrey (Senior Project Manager, Project T10KT) Prof.Dr. Kannan Moudgalya, IIT Bombay Mr.Vijayaraghavan(Former CEO Techno Park, Member- State Planning Board Kerala) Dr.Achutsankar S Nair,Centre for Bio Informatics,Trivandrum Dr.SahanaMurthy,IIT Bombay |
| | 5 | International Seminar on “Talking Like Humans” on 6 th December 2014. | Department Development Fund of the School | Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland (also an alumnus of the School) |
| | 6 | A workshop on ‘Training A-view System’ by A-View team of Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India, on 23 rd February 2015. | NMEICT, Ministry of Human Resource Development, Govt. of India, | |
| | 7 | A workshop on ‘Scilab’ by the Spoken Tutorial Project, on 25/3/2015 | National Mission on Education through ICT, MHRD, Govt. of India. | Online through “Talk To A Teacher” project of IIT Bombay |

| | | | | |
|---------|---|---|--|---|
| 2015-16 | 1 | Workshop on Syllabus Revision M.Sc./M.Tech, of the School Of Computer Sciences on 09/06/15. | | |
| | 2 | As part of strengthening the activities of the Placement Cell of the School, a one-day workshop on “Skill Enhancement” was organized for students of the School on 19.08.2015. The event was organized in remembrance of Dr. A.P.J. Abdul Kalam. Two of our alumni, who are well experienced have handled the sessions. | Department Development Fund of the School | Ms. Easwari PV, Senior consultant, Siemens Information Systems Limited, Bangalore. (also an alumnus of the School) Sreevidya P. Assistant Director, IT Services, EYGSS, GDN India-Cochi Centre |
| | 3 | National level 3-day E-conference using the virtual class room and video-conferencing facility set up in the School. The School participated as a Nodal Centre in the National Conference on Research in Emerging Areas (NACORE 2016), a National e-conference organized by AmalJyothi College of Engineering and Technology from 28.01.2016to 30.01.2016. Research scholars and M Tech students of the School presented research papers in the conference, which had around 20 nodal centres participating from across the Nation. | The event was sponsored by KSCSTE in association with ISTE Kerala Section. | Dr.R M Vasu, Professor, Indian Institute of Science, Bangalore, India. Dr.Debashish Roy, Professor, Computational Mechanics Lab, Indian Institute of Science, Bangalore, India Mr.Sreekanth R Iyer, Cloud Security Architect (CTO's Office), IBM Cloud, IBM Master Inventor, Member - IBM Academy of Technology, Open Group CertifiedDistinguished Architect. “Dr.VinodBhattathiripad, Cyber Forensic Consultant |
| | 4 | A workshop on “Framing of Scheme and Syllabus of M Phil Computer Science” at School of Computer Sciences on 8.09.2015. | | |



| | | | | |
|---------|---|--|---|---|
| | 5 | A 3 day workshop on “Network Simulator 2”, 19.11.15 to 21.11.15 | Mahatma Gandhi University | Mr. Pankaj Kumar G., System Analyst, FISAT. |
| | 6 | Seminar on “Image Processing Technologies for Defence Applications” on 4.12.2015. | „ | Dr.Lekshmi S, Scientist, NPOL (also an alumnus of the School) |
| | 7 | Two-day National Workshop on “India’s First Cloud Computing Championship – IFC3 INDIA” in collaboration with Neuromancers, IIT Bhubaneswar and Infero, Scitech Council IIT Hyderabad from 9.02.16 to 10.02.16. | Department Development Fund of the School | Mr. Himanshu Dogra, Cloud Trainer cum Consultant AICRAD. |
| 2016-17 | 1 | A workshop on “Cloud Solutions and Implementation” for faculty and technical staff of the School on 28.06.2016 | Mahatma Gandhi University | Mr.Saneesh Kaniyath, Sr. Technical Consultant, Smartsoft, Cochin. |
| | 2 | Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016 as part of Capacity Building and Knowledge Upgradation for faculty members and M Sc/M Tech/M Phil and Research students of the School , in collaboration with Scientific Computing Solutions, Chennai. | Mahatma Gandhi University | Dr. Mahesh Anand, Founder and CTO, Scientific Computing Solutions (SCS-India) |
| | 3 | Seminar on “Remoteness Function on Median Graphs”, 2 nd Dec 2016, | Mahatma Gandhi University | Dr. Ajitha R. S., Post Doctoral Fellow, University of Kerala. (also an alumnus of the School) |

31. Code of ethics for research followed by the departments: publications and thesis are subjected to plagiarism analysis. Uses only licensed versions of software/tools for research purpose. Provides healthy environment to foster ethical research.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.Sc 2011-13 Batch | 81 | 4 | 19 | 100% | 100% |
| M.Sc 2012-14 Batch | 121 | 10 | 15 | 100% | 100% |
| M.Sc 2013-15 | 139 | 5 | 20 | 90% | 100% |
| M.Sc 2014-16 | 397 | 12 | 13 | - | - |
| M.Sc 2015-17 | 253 | 5 | 16 | - | - |
| M.Tech 2012-14 | 55 | 5 | 13 | 100% | 100% |
| M.Tech 2013-15 | 54 | 4 | 14 | 100% | 100% |
| M.Tech 2014-16 | 27 | 4 | 14 | - | - |
| M.Tech 2015-17 | 21 | 1 | 14 | - | - |
| MPhil 2015-16 | 37 | 1 | 5 | - | - |
| Ph.D 2011 | | 2 | 4 | | |
| Ph.D 2012 | | 0 | 2 | | |
| Ph.D 2013 | | 3 | 1 | | |
| Ph.D 2014 | | 9 | 6 | | |
| Ph.D 2015 | | 1 | 3 | | |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| M.Sc 2011-13 Batch | 100% | - | - | - |
| M.Sc 2012-14 Batch | 84% | 12% | - | 4% |
| M.Sc 2013-15 | 88% | 8% | - | 4% |



| | | | | |
|----------------|------|-----|------|----|
| M.Sc 2014-16 | 68% | 24% | - | 8% |
| M.Sc 2015-17 | 92% | 8% | - | - |
| M.Tech 2012-14 | 67% | 33% | - | - |
| M.Tech 2013-15 | 63% | 37% | - | - |
| M.Tech 2014-16 | 65% | 29% | 6% | - |
| M.Tech 2015-17 | 53% | 40% | 7% | - |
| MPhil 2015-16 | 100% | - | - | - |
| Ph.D 2011 | - | 40% | 60% | - |
| Ph.D 2012 | 50% | - | 50% | - |
| Ph.D 2013 | - | 25% | 75% | - |
| Ph.D 2014 | 6% | 13% | 81% | - |
| Ph.D 2015 | - | - | 100% | |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- **Defense Services examinations** – Manu Gopal
- **GATE**–9 M.Tech (2012-14 Batch) students, 3 M.Tech (2013-15 Batch) students
- **Civil Services**– Rema Rajeswari R. IPS(1999-2001Batch).

Rema Rajeshwari is a 2009 batch Regular Recruit (RR) of the Indian Police Service who got trained at the National Police Academy, Hyderabad, India and was inducted into the IPS on 30 August 2009.

35. Student progression

| Student progression | Percentage against enrolled |
|------------------------|-----------------------------|
| UG to PG | Nil |
| PG to M.Phil. | 6% |
| PG to M.Tech. | 1% |
| PG to Ph.D. | 2% |
| Ph.D. to Post-Doctoral | |

| | |
|--|-----|
| Employed | |
| <input type="checkbox"/> Campus selection | 10% |
| <input type="checkbox"/> Other than campus recruitment | 75% |
| Entrepreneurs | 1% |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|----|
| of the same university | 0 |
| from other universities within the State | 50 |
| from universities from other States from | 50 |
| universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Ph.D. – 2

| Name of the faculty | Details |
|---------------------|---------|
| Bindu V.R. | Ph.D. |
| Anuj Mohamed | Ph.D. |

38. Present details of departmental infrastructural facilities with regard to

Library : The Library of the school has a vision to inspire technological exploration, inculcate research aspiration and backup the academic community to attain the goals having been set. The library uses various tools for providing information to the user community. We stand out with good collection of academic as well as research-oriented books of high reference value. To cater to the increasing amount information needs of the students, research scholars in particular, we have made available online journals from IEEE with high impact factor. Apart from the IEEE database, we have access to *e-shodhsindhu* being provided by INFLIBNET Centre. Our library has been automated with much acclaimed open source software Koha. We have dedicated machines with high speed internet connection for searching e-resources and OPAC. The resources of our library have been made available online by being a part of the union catalogue in collaboration with the university central library. We utilize the budgetary allocation prudently with a view to keeping pace with the rapid advancement in our area of specializations.

- **Internet facilities for staff and students:** Campus Wide Network of the University.
- **Total number of class rooms** : 6
- **Class rooms with ICT facility** : 2



- Students' laboratories : 2
- Research laboratories : 1

39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university –

| Name of Guide | Name of Doctoral student | Post Doctoral |
|--------------------|--------------------------|---------------|
| Dr. G. Raju | Reshmi K R | Nil |
| Dr. R. Vijayakumar | Jobin Varghese | |
| Dr. Gladston Raj | Rahul Shajan | |

- from other institutions/universities – the remaining 26 are from other Universities

40. Number of post graduate students getting financial assistance from the university.

| | |
|---|------|
| Aspire Scholarship for the final project. | |
| Number of M.Sc Students (2010-2012) | – 2 |
| Number of M.Sc Students (2011-2013) | – 9 |
| Number of M.Sc Students (2012-2014) | – 20 |
| Number of M.Tech Students (2012-14 Batch) | – 14 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Before commencing MPhil in Computer Science, an informal need assessment was undertaken. It was observed that MPhil in Computer Science was offered only in Kannur University, in the state. This indicated the requirements of trained manpower in the field of Computer science

42. Does the department obtain feedback from

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. The feedback is used for curriculum revision. All faculty members participate in curriculum revision being members of BOS of school.

- b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Students' feedbacks are regularly collected and analysed by faculty members and are effectively used for improving the teaching-learning process.

- c) Alumni and employers on the programmes offered and how does the department utilize the feedback?

Feedbacks from the various stakeholders are used in the regular updation of syllabi and up to date choice of electives, meeting the demands of the academia and industry.



43. List the distinguished alumni of the department (maximum 10)

| Sl. No | Name | Address | e-mail/ Phone number | M Sc Batch |
|--------|------------------------|---|---|-------------|
| 1 | Santhosh Pillai | Technical Program Manager, Microsoft, USA | https://www.linkedin.com/in/sanpil | 1993-1995 |
| 2 | Sunil Chakkappen | Consulting Member of Technical Staff, Oracle, San Francisco Bay Area, USA | https://www.linkedin.com/pub/sunil-chakkappen/3/a16/588 | 1993-1995 |
| 3 | Suresh Babu | Director R&D Engineering VM Ware Bangalore | +91 8041140439 | 1994-96 |
| 4 | Dr.Ajitha R S | UGC Research Awardee (Post Doctoral), Assistant Professor, Dept. Of Computer Application, NSS College, Rajakumary. | ajithars@gmail.com | 1994-96 |
| 5 | Dr Lekshmi S | Scientist E Naval Physical and Oceanographic Laboratory DRDO Ministry of Defense Thrikkakara Kochi | lekshmis_23@yahoo.com | 1995-97 |
| 6 | Easwari P.V. | Architect and Software Consultant, Siemens Technology and Services, Bangalore, INDIA. | easwari@gmail.com +91 9972622775 | 1995-1997 |
| 7 | Jeesmon Jacob | Senior Software Engineer, eBay Inc, USA | jeesmon@gmail.com | 1996-98 |
| 8 | Rema Rajeshwari I.P.S. | Deputy Commissioner Of Police, Malkajgiri zone, Cyberabad (Hyd), Head-Cyb SHE TEAMS Malkajgiri Hyderabad | dcp_alwal@cyb.tspolice.gov.in 9490617203 08418-232336 (office) | 1999-2001 |
| 9 | Vipin Das R | Senior Project Manager, Infosys Ltd. Trivandrum | Vipindas.r@gmail.com 8547765951 | 1999 – 2001 |
| 10 | Vipins Gopinath | Senior Software Design Engineer, Microsoft, USA | https://www.linkedin.com/pub/vipins-gopinadhan/8/617/b6a vipinspg@hotmail.com | 2000-2002 |



44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

| Period | Conferences, Seminars , Workshops |
|---------|--|
| 2010-11 | <ol style="list-style-type: none"> 1. Workshop on “Tour Making”, Mr. Aravind Paranjpye, Officer for Science Popularization, IUCAA, Pune, October 18-19, 2010. 2. Seminar on “Cyber Crimes”, Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010. 3. Workshop on “FOSS and BOSS”, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010. 4. Workshop on “e-Astronomy and Statistics”, organized by School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011 with the following resource persons <ul style="list-style-type: none"> • Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA • Dr. Archana Pai, Indian Institute of Science Engineering and Research (IISER), Trivandrum • Dr. Ninan S Philip, Professor, St. Thomas College, Kozhencherry, Kerala 5. Seminar on “Best Programming Practices”, Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011. 6. National Conference on “Computing and Communication (NCCC 2011)”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011. <p>Technical Talks Included:</p> <ul style="list-style-type: none"> • “A Brief History of Computing” by Prof. (Dr.) S.K. Sinha, CEDT, Indian Institute of Science, Bangalore. • “KERA- A New Language for Synthetic Biology” by Prof. (Dr.) AchuthSankar S. Nair, Director and Sri. Umesh, Assistant Professor, State Inter University Center of Excellence in Bio-Informatics, University of Kerala. • “Machine to Machine Communication” by Prof. (Dr.) K.S. Mohanachandra Panicker, Dean (Planning & Research), |



| | |
|---------|--|
| | <p>7. Workshop on “Teaching Learning Process”, by Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.</p> <p>8. Workshop on “Computer Networking Leading to CCNA Certification”, March 16, 2011.</p> |
| 2011-12 | <p>1. National level seminar by Ms. Easwari PV, Senior consultant , Siemens Information Systems Limited, Bangalore, Dr. Achuth Sankar S Nair, Hon. Director, Centre for Bio-Informatics, Dr. K S M Panicker, Dean, FISAT in December 2011.</p> <p>2. Conference on “Computing Paradigms and Bio-informatics” (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012.</p> <p>Talks Included:</p> <ul style="list-style-type: none"> i. “Computing in New Biology” by Prof. (Dr.) AchuthSankar S. Nair, Director, State Inter University Center of Excellence in Bio-Informatics, University of Kerala. ii. “High Performance Computing Paradigms” by Mahesh C., FISAT, Angamaly. iii. “Bio-Informatic Approach for Structure Function Analysis Polyketide Synthases: Lessons”, Dr.Radhakrishnan E K, School of Bio Science, Mahatma Gandhi University. iv. “Cloud Computing” by Prof. (Dr.) Paulose Jacob, HOD, Department of Computer Science, Cochin university of Science and Technology, Kerala. <p>3. Seminar on “Computational Intelligence, Robotics and Autonomous Systems” by Dr. Prahlad Vadakkeppat, National University of Singapore, January 3rd, 2012.</p> |
| 2012-13 | <p>1. Workshop on “Open source software “ was organized by the School during 2012, inaugurated by Dr.Iqbal, former Vice-chancellor of Kerala University.</p> <p>2. National level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012.</p> |
| 2013-14 | <p>1. School was a nodal centre for the One day ISTE e-Workshop on “Creative Teaching”, October 5th 2013 through A-View, an e-learning software. The Seminar was conducted by the Department of Computer Science & Engineering and Computer Applications of Amal Jyothi College of Engineering.</p> |



| | |
|---------|---|
| | <p>Technical Talks Included:</p> <ul style="list-style-type: none"> ➤ KeyNote Address by Dr.Mukta Atrey, Senior Project Manager, Project Ekalavya, IIT Bombay ➤ Effective Teaching & Adaptive Learning by Rev.Dr.Jose Kannampuzha Principal, Amal Jyothi College of Engineering, Kanjirappally ➤ Teacher Research lead to learning by Prof. Dr. Sabu Thomas, School of Chemical Science, MG University, Kottayam ➤ Know your students– Teacher student relations by Rev. Dr.Tomy Tharayil, (Director, Danahalaya, Punnapra) ➤ Communication skills and career oriented tools for teachers- by Mr.Abraham Kurien IPS (former DGP, Govt. of UP, Member, Civil Service Interview Board of the UPSC). <p>2. National Seminar on “Computing and Communication” at School of Computer Sciences, December 2013.</p> <p>Technical Talks Included:</p> <ul style="list-style-type: none"> i. Computing in Malayalam for Malayalam using Visual Programming Language- by Dr. K.P. Soman, Prof. & HOD, Centre for Excellence in Computational Engineering, Amrita Vishwa Vidyapeetham, Coimbatore ii. Algorithm for Mining the Web and the Database- by Dr.Sumithra S Nair, Indian Institute of Space Science and Technology (ISTE), Thiruvananthapuram iii. Context Centered Communication- by Sri. C.K. Subramania Prasad, Retd. Prof & HOD, Dept. Of Civil Engineering, NSS College, Palakkad iv. Latest Trends in Software Engineering- by Sri. Krishnan Chittoor, S/W Developer, Microsoft India Ltd. |
| 2014-15 | <ol style="list-style-type: none"> 1. A seminar by Dr Manjaiah, Professor, Dept. of Studies and Research in Computer Science, Mangalore University on “Systems Programming” on 21.07.2014. 2. Spoken Tutorial project(an initiative of NMEICT, MHRD, Govt. of India) in the University, a training session at School of Computer Science and Engineering/Computer Applications/IT institutions under M G University on 27.08.2014. Mr.Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay. 3. Seminar on “Research Topics for M Tech Dissertation” at School of Computer Sciences by Dr Madhu S Nair, Asst. Professor, Dept. of Computer Science, University of Kerala on 18.09.2014. |

| | |
|---------|--|
| | <p>4. School was a nodal centre for the National E-seminar “Steps2Research” during 19-20 Sept 2014 through A-View, an e-learning software. The Seminar was conducted by the Department of Computer Science & Engineering and Computer Applications of Amal Jyothi College of Engineering. The seminar was enriched by scholarly talks by the various personalities such as</p> <ul style="list-style-type: none"> • “The research mind set” Prof. Dr. D.B. Phatak, IIT Bombay • “NMEICT activities and T10KT project in IIT B” Dr.Mukta Atrey (Senior Project Manager, Project T10KT) • “Introductions to Research” Rev. Dr. Jose Kannampuzha, Principal, Amal Jyothi College of Engg • “Research issues in Massive IT literacy drive in India” Prof.Dr. Kannan Moudgalya, IIT Bombay • “Engineering Research, Incubation and Technology Transfer – The Technopark Story” by Mr.Vijayaraghavan (Former CEO Techno Park, Member- State Planning Board Kerala) • “Management of Research Process: Philosophy & Practical Tips” Dr.Achutsankar S Nair, Centre for Bio Informatics, Trivandrum • “The process of Action Research” Dr.Sahana Murthy, IIT Bombay • “How to write research proposals, funding agencies, filing patents” Dr.Soney C. George. • “How to write thesis” Dr. Jacob Philip,(Director STIC,CUSAT) <p>5. International Seminar on “Talking Like Humans” by Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland on 6th December 2014.</p> <p>6. A workshop on ‘Training A-view System’ by A-View team of Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India, on 23rd February 2015.</p> <p>7. A workshop on ‘Scilab’ by the Spoken Tutorial Project, through “Talk To A Teacher” project of IIT Bombay on 25/3/2015, funded by National Mission on Education through ICT, MHRD, Govt. of India.</p> |
| 2015-16 | <p>1. As part of strengthening the activities of the Placement Cell of the School, a one-day workshop on “Skill Enhancement” was organized for students of the School on 19.08.2015. The event was organized in remembrance of Dr. A.P.J. Abdul Kalam. Two of our alumni, who are well experienced have handled the sessions on “Principles and Practices for a Good Professional and Personal Life” and “How to Face an Interview”.</p> <p>2. National level 3-day E-conference using the virtual class room and video-conferencing facility set up in the School. The School participated as a Nodal Centre in the National Conference on Research in Emerging Areas (NACORE 2016), a National e-conference organized by Amal Jyothi College of Engineering and Technology from 28.01.2016to 30.01.2016. The event was sponsored by KSCSTE in association with ISTE Kerala Section.</p> |



| | |
|---------|--|
| | <p>Research scholars and M Tech students of the School presented research papers in the conference, which had around 20 nodal centres participating from across the Nation.</p> <p>Key note sessions were</p> <ul style="list-style-type: none"> • “Photo-acoustic tomography and applications” by Dr.R M Vasu, Professor, Indian Institute of Science, Bangalore, India. • “A stochastically evolving non-local search for global optimization” by Dr. Debashish Roy, Professor, Computational Mechanics Lab, Indian Institute of Science, Bangalore, India • “Cloud Security and its Opportunities” by Mr.Sreekanth R Iyer, Cloud Security Architect (CTO's Office), IBM Cloud, IBM Master Inventor, Member - IBM Academy of Technology, Open Group Certified Distinguished Architect. • “Cyber Crimes”, Dr.Vinod Bhattathiripad, Cyber Forensic Consultant • “NoSQL Exploitation Framework” Francis Alexander, Information Security Researcher <ol style="list-style-type: none"> 3. A 3 day workshop on “Network Simulator 2” (19.11.15 to 21.11.15) for faculty members as well as M Sc/M Tech and Research students of the School. 4. Seminar on “Image Processing Technologies for Defence Applications” by Dr. Lekshmi S, Scientist, NPOL (also an alumnus of the School), on 4.12.2015. 5. Two-day National Workshop on “India’s First Cloud Computing Championship – IFC3 INDIA” in collaboration with Neuromancers, IIT Bhubaneswar and Infero, Scitech Council IIT Hyderabad from 9.02.16 to 10.02.16. Our School served as a zonal centre. Students from affiliated institutions also participated. Three delegates were selected for the National level competition. |
| 2016-17 | <ol style="list-style-type: none"> 1. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016 as part of Capacity Building and Knowledge Upgradation for faculty members and M Sc/M Tech/M Phil and Research students of the School, in collaboration with Scientific Computing Solutions, Chennai. 2. Seminar on “Remoteness Function on Median Graphs”, 2nd Dec 2016, by Dr. Ajitha R. S., Post Doctoral Fellow, University of Kerala. |

45. List the teaching methods adopted by the faculty for different programmes.

1. M.Sc- ICT enabled Lectures, tutorials, practicals, individual/group written/practical assignments, case studies, mini projects , Seminars, Webinars, Major project and dissertation.

2. M Tech - ICT enabled Lectures, tutorials, practicals, individual/group written/practical assignments, case studies, mini projects, Industrial Visits, Seminars, Webinars, Major project and dissertation.
3. M Phil - ICT enabled Lectures, tutorials, discussions, literature reviews, practicals, individual written/practical assignments, case studies, mini projects, Seminars, Webinars, Major dissertation.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through feedbacks from

- Employers, External Examiners, External Project Guides
- The performance of the students in the continuous assessments and evaluations and the final examinations.

47. Highlight the participation of students and faculty in extension activities.

The school plays a key role in integrating the benefits of Open Source Software/Tools in the university's educational process through the Spoken Tutorial Project. Head of the Department being the Chief Co-ordinator of the Spoken Tutorial Project undertakes the implementation of the project in the University.

The University has entered into partnership with the Spoken Tutorial Project Team of IIT Bombay. An MoU was signed on 27.08.2014.

The Spoken Tutorial Project is an initiative of the National Mission on Education through ICT, Ministry of Human Resource Development, Government of India. The objective is to conduct Software Training Workshops on FOSS (Free & Open Source Software), absolutely Free of Cost, with the aid of Spoken Tutorials.

As an initial step towards implementing the Spoken Tutorial project in M G University, two training sessions were organized for the faculty members from the departments of Computer Science and Engineering/Computer Applications/IT and Arts and Science departments of the various institutions under M G University. IIT Bombay Spoken Tutorial Team conducted these Faculty Development and Training Programmes. The aim of these training sessions was to spread the awareness of Spoken Tutorial Project among the faculty members of colleges under MG University.

Now all the participating affiliated institutions have registered faculty coordinators and are giving Software Training Workshops to students on **FOSS** (Free & Open Source Software), absolutely **Free of Cost**, with the aid of Spoken Tutorials.

- The School has been organizing an annual technical meet "Interface" since 1996 and publishing an annual technical publication "IT Glimpse" since 1999. The three days programme is completely organized by the students with ample support and guidance from alumni and faculty members. The event aims at bringing together computer science students from various universities and institutions and to provide a common

platform to share their talents by means of a series of technically challenging competitions like Paper Presentations, Technical Quiz, Programming, N/W gaming, Troubleshooting and so on.

Organizing an event like this enhances the soft skills of our students like organizing capacity, peer group management skills, communication skill etc. in addition to enriching their technical/academic knowledge.

- Orphanage visit – The students, staff and faculty members use to visit a rehabilitation centre near Medical College, Kottayam, spend a day with the inmates, majority of whom are mentally and physically challenged, as part of New Year celebrations and provide a modest financial help.

48. Give details of “beyond syllabus scholarly activities” of the department.

- The School has been organizing an annual technical meet “Interface” for the last 20 years and publishing an annual technical publication “IT Glimpse” for the last 17 years. The two days programme aims at bringing together computer science students from various universities and institutions and to provide a common platform to share their talents by means of a series of technically challenging competitions like Paper Presentations, Technical Quiz, Programming, N/W gaming, Troubleshooting and so on. Organizing an event like this enhances the soft skills of our students like organizing capacity, peer group management skills, communication skill etc. in addition to enriching their technical/academic knowledge.

Steps Taken for upgradation of employment opportunities of students under Additional Skill Acquisition Programmes.

- The School provides short add on courses on different scientific and computational tools to students through the Spoken Tutorial Project, an initiative of NMEICT, MHRD, Govt. of India.
- A series of workshops and seminars have been initiated for “Skill Enhancement” (**SPARK**) for students of the School, as part of strengthening the activities of the Placement Cell of the School. The events organized in a regular manner are co-ordinated by one of the faculty members with the help of student co-ordinators.
- As part of strengthening the activities of the Placement Cell of the School, a one-day workshop on “Skill Enhancement” was organized for students of the School on 19th August 2015. The event was organized in remembrance of Dr. A.P.J. Abdul Kalam. Two of our alumni, who are well-experienced have handled the sessions on “Principles and Practices for a Good Professional and Personal Life” and “How to Face an Interview”.

**49. State whether the programme/ department is accredited/ graded by other agencies?
If yes, give details. : No**

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Research output in frontier areas (Publications, Book Chapters, Books)
- Major student Projects of M Sc/M Tech of social relevance

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Dedicated team of faculty working together with a vision to mould technically competent and socially committed computer science professionals for nation building.
- A well supportive team of competent technical and non-teaching staff.
- Up-to-date curriculum and sufficient infrastructure facilities including a well equipped library and laboratories.
- Conducive environment for teaching, learning and research activities.
- Relentless support from the resourceful alumni.

Weaknesses:

- Dearth of permanent faculty.
- Lack of sufficient number of technical staff.
- Procedural delay in the traditional system for achieving the targets set up by the department.
- Lack of sufficient training opportunities for faculty members to keep abreast of the rapid changes in the subject.

Opportunities:

- Good opportunity for active research in frontier areas of Computer Science.
- Increasing demand for well trained IT professionals in various sectors.
- Research and development can be enhanced through sponsored projects.
- Scope for interdisciplinary research and project.
- Linkages with industry leading to more opportunities for students and researchers.

Challenges:

- Attracting talented students with research orientation.
- Moulding/training the students in tune with the rapid developments occurring in the subject area.
- Attracting students with geographical diversity.
- Active collaboration with the industry.
- Inadequate supercomputing facilities.

52. Future plans of the department.

1. Enhance the overall research output. Initiatives were taken to set up a High Performance Computing facility in the School utilizing the funding of DST-PURSE scheme. The School has plans to strengthen research in big data analytics contributing

to various data intensive scientific computational requirements using high performance computing.

2. Strengthen the collaboration with Industry/R&D Organizations and undertake research projects of external funding agencies.
3. Enhance student support activities by collaborating as a nodal department with the Business Incubation and Innovation Centre (BIIC), Mahatma Gandhi University, established in 2016 with the seed capital donated by the Government of Kerala, aspiring to support innovations/incubations/entrepreneurship by extending academic and financial support to students through R&D support, start-up grants, patent facilitation and entrepreneurship support.
4. Enhance the infrastructure by setting up a specialized Research Lab with Private Cloud. It has also been planned to migrate the digital repository of Workshops, seminars, Ph.D open defences and other e-learning contents to it.
5. Provide software development solutions and consultancy services to the society. The School has submitted a proposal for setting up Digital Solutions and Consultancy Services (DSACS). This initiative also aims at providing industry level working experience and exposure to students who pass out from the School.
6. Conduct more Capacity Building and Knowledge Upgradation programmes for faculty members and students of the School.
7. Enhance activities of the placement cell by continuing the practice of conducting skill development programmes and remedial programmes in a regular manner.

SCHOOL OF ENVIRONMENTAL SCIENCES

| | | | |
|----|--|---|--|
| 1. | Name of the Department | : | School of Environmental Sciences |
| 2. | Year of establishment | : | 1995 (Statutory status from 2000 onwards) |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Environmental and Atmospheric Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <ul style="list-style-type: none"> • M.Sc Environment Science and Management • M.Sc Environment Science and Disaster Management • M.Phil Environment Management • Ph.D in Environmental Science |
| 5. | Interdisciplinary programmes and departments involved | : | <p>The School of Environmental Sciences offers two interdisciplinary PG programmes and one M.Phil programme as given below,</p> <ol style="list-style-type: none"> 1. M.Sc Environment Science and Management 2. M.Sc Environment Science and Disaster Management 3. M.Phil Environment Management <p>Apart from this, the School also offers a Post graduate diploma in Remote Sensing and GIS (This is offered for UG/PG students from all science disciplines from other institution also).</p> <p>The School also have faculties with expertise from various subjects. One Professor in Chemistry, one Associate Professor in Environmental Biotechnology and two Assistant Professors in Environmental Science. Guest faculties are also from different disciplines like environmental economics, microbiology, environmental law, and statistics.</p> |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |



| | | | | | | |
|-----|--|---|---------------------------------------|------------|--------|------------------------------|
| 8. | Examination System Annual/Semester/Trimester/Choice Based Credit System | : | Semester (Choice Based Credit System) | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Two Open courses (4 credits) | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual (including CAS & MPS) |
| | | | Professor | 1 | 1 | - |
| | | | Associate Professors | 2 | 1 | - |
| | | | Asst. Professors | 2 | 2 | - |
| | | | Others | - | - | - |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 Years |
|------------------------|----------------|---------------------|---------------------------|----------------------------|--|
| Dr. C.T. Aravindakumar | M.Sc., Ph.D. | Professor | Environment Chemistry | 23 | Ph.D: 8 M.Phil: 6 |
| Dr. E.V. Ramasamy | M.Tech., Ph.D. | Associate Professor | Environment Biotechnology | 16 | Ph.D: 5 M.Phil: 10 |
| Dr. Mahesh Mohan | M.Sc., Ph.D. | Assistant Professor | Environment Science | 6½ | M.Phil: 7 |
| Dr. Syllas V.P. | M.Sc., Ph.D. | Assistant Professor | Environment Science | 5½ | M.Phil: 9 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl.No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|-------|-------------------------|---|-------------------------|
| 1. | Prof.(Dr.) A.P. Thomas | Visiting Fellow | Environmental Biology |
| 2. | Dr. TV MuraleeVallabhan | Visiting Fellow | Environmental Economics |
| 3. | Dr. Ramesh B Nair | Visiting Fellow | Statistics |
| 4. | Mr.Somanathan | Visiting Fellow | Environmental Law |

13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programme | (2010 to 16) |
|--|--------------|
| M.Sc Environment Science and Management | 37 % |
| M.Sc Environment Science and Disaster Management | 30% |
| M.Phil Environment Management | 20% |

14. Programme-wise Student Teacher Ratio:

| Programme | Student Teacher Ratio |
|--|-----------------------|
| M.Sc Environment Science and Management | 3:1 |
| M.Sc Environment Science and Disaster Management | 3:1 |
| M.Phil Environment Management | 2:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| Support staff | Sanctioned | Filled & Actual |
|----------------|------------|-----------------|
| Technical | 2 | 2 |
| Administrative | 5 | 5 |

16. Research thrust areas as recognized by major funding agencies:

- Emerging Contaminants
- Environmental Pollution
- Climate change
- Bioremediation
- Wetland ecology
- Solid waste management and anaerobic wastewater treatment
- Polar Environment Research
- Biodiversity and vegetation analysis
- Microbial and phyto-bioremediation
- Disaster Management
- Hydrogeology and river basin analysis
- Environmental stress
- Remote sensing and GIS application
- Ethnobotany, Ethnoecology and tribal studies
- Advanced oxidation processes
- Radiation studies
- Sediment geochemistry

17. Number of faculty with ongoing projects from a) National b) international funding agencies and c) Total grants received.

a) National

| Sl. No. | Project Title | Period | Funding agencies | Total Fund in lakhs (₹) |
|---------|---|-----------|-------------------------|-------------------------|
| 1. | National Vegetation Carbon Pool – Kerala Region | 2011-2013 | ISRO | 4.5 |
| 2. | Mercury geochemistry in agricultural wetland ecosystem | 2012-2015 | DST-SERB | 25.87 |
| 3. | Mercury pollution in the sediments of Vembanad Wetland: a chronological approach | 2012-2016 | UGC | 2.85 |
| 4. | Chemical transformation and bioaccumulation of Mercury in the Vembanad wetland ecosystem | 2008-2012 | MoES | 65 |
| 5. | Accumulation of Mercury and Cadmium in Benthic Food Web of Cochin Estuary - a Stable Isotope Approach | 2012-2015 | KSCSTE, Govt. of Kerala | 10.85 |
| 6. | Minor Project :Impact of Climate Change on the Mercury Geochemistry in a Tropical Wetland Ecosystem | 2012 | DoECC, Govt. of Kerala | 0.38 |
| 7. | Minor Project :Geochemistry of selected heavy metals in Kuttanad agricultural wetland ecosystem | 2013 | DoECC, Govt. of Kerala | 0.58 |

| | | | | |
|-----|---|-----------|-----------------------------|-------|
| 8. | Evolution of Karamana river basin and its implications on hydrogeology: A geomatics approach using morphometric analysis | 2013-2016 | KSCSTE-BTL, Govt. of Kerala | 15.96 |
| 9. | Perchlorate contamination of drinking water resources in Kerala | 2016-2019 | KSCSTE, Govt. of Kerala | 22.5 |
| 10. | Pulse radiolysis of biomolecules | 2010-2012 | Indo-French ARCUS Project | 25 |
| 11. | Radiation and photochemical studies of chitosan modified polycyclic aromatic hydrocarbons (Environmental Pollutants) | 2009-2012 | BRNS | 15 |
| 12. | Sonochemical degradation of organic water pollutants | 2012-2015 | KSCSTE | 14.2 |
| 13. | An investigation on the potential microalgal species for the production of biodiesel from Kuttanad wetland ecosystem, Kerala. | 2012-2015 | UGC | 5.49 |
| 14. | Nationwide Environmental Gamma Radiation Monitoring Using TLDs | 2014-2016 | BRNS | 10 |
| 15. | Phytoremediation of Wastewater Contaminated With Heavy Metals using Constructed Wetlands and Nutrient Film Technique (NFT) | 2012 | DOECC, Govt. of Kerala | 0.5 |
| 16. | Household consumption pattern of selected resources in Ernakulam and Kottayam districts - A comparative assessment | 2012 | DOECC, Govt. of Kerala | 0.35 |
| 17. | Recovery of Energy and Manure from solid waste : a step towards mitigation of Climate Change | 2012 | DOECC, Govt. of Kerala | 0.6 |
| 18. | Carbon sequestration potential of selected Earthworm species | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 19. | Estimation of Greenhouse Gas Emission from Wetlands and Paddy fields | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 20. | Greenhouse Gas Emission from septic tanks : a preliminary assessment | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 21. | Enzymatic saccharification of water hyacinth for the production of Bioethanol: An utilization approach for the control | 2013 | DOECC, Govt. of Kerala | 0.6 |
| 22. | Rhizosphere remediation of agro pollutants; An investigation from Kuttanad wetland ecosystem, Kerala | 2013 | DOECC, Govt. of Kerala | 0.6 |



| | | | | |
|-----|---|-----------|------------------|----------------------|
| 23. | Mercury Geochemistry in the Sediments of Kongsfjorden, Ny-Alesund, Arctic | 2013-2015 | ESSO-NCAOR, MoES | Logistic support |
| | Total grants received | | | ₹222.63 Lakhs |

b) International: Nil

c) Total grants received : ₹ 222.63 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

| Sl. No. | Project | Agency | Duration | Total Fund in Lakhs (₹) |
|---------|--|------------------|--------------|-------------------------|
| 1. | National Vegetation Carbon Pool – Kerala Region | IIRS, ISRO | 2011-2013 | 4.5 |
| 2 | Nationwide Environmental Gamma Radiation Monitoring Using TLDs (A National Mission programme) | BRNS | 2014-2016 | 10 |
| 3 | Investigation of the spatial distribution of uranium and associated water quality parameters in five central districts of Kerala | BRNS | 2015 onwards | 22.92 |
| 4 | Long - Term Monitoring of Kongsfjorden System of Arctic region for climate change studies | ESSO-NCAOR, MoES | 2015-2016 | Logistic support |
| 5 | Long Term Environmental Monitoring of Fjord Ecosystems, Ny-Ålesund (Arctic) | ESSO-NCAOR, MoES | 2016-2017 | Logistic support |
| | Total grant received | | | 37.42 |

b) **International collaboration**

| Sl. No | Project Title | Period | Funding agencies | Total Fund in lakhs (₹) |
|--------|---|-----------|---|-------------------------|
| | Development of Self contained, PV powered domestic toilet and waste water treatment system. | 2014-2015 | California Institute of Technology, USA | 11.40 |
| | Microbial Fuel Cells | 2014 | University of West of England (UWE), Bristol, UK | Nil. |
| | An Interdisciplinary and Community Oriented Innovative Approach Towards Sustainable Development | 2012-2015 | UGC / Obama-Singh 21 st century knowledge initiative/ with Brown University, Duke University and Plymouth State University | 62.50 |
| | Pulse radiolysis of biomolecules | 2010-2012 | Indo-French ARCUS Project | 25.00 |
| | Total Grant | | | 98.9 |

Total grants received: ₹ 136.32 Lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.;

| Sl. No. | Title of the project | Funding Agency | Duration | Grant Received in Lakhs (₹) |
|---------|---|------------------------------|-----------|-----------------------------|
| 1. | To strengthen the post-graduate teaching and research facilities in the Environmental Chemistry area | DST | 2012-2017 | 85.00 |
| 2. | Investigation of the intermediates and final products of chemical and biological treatment of contaminated water and solid wastes | KSCSTE-SARD, Govt. of Kerala | 2012-2014 | 29.00 |
| 3. | Infrastructure development for science departments | DST-PURSE | 2012-16 | 225.00 |
| 4. | Infrastructure development | DoECC | 2012 | 5.00 |

Total grants received: ₹ 334 Lakhs

20. Research facility / centre with National recognition

- o State Recognition : Yes,
 - Kerala State Pollution Control Board.
- o National Recognition : Yes
 - Nationally recognised institution for the monitoring of gamma radiation, Vegetation Carbon pool and Sediment Geochemistry analysis of Arctic ecosystem by the Indian Arctic expedition programme. The School also recognised by the DST - FIST, DST PURSE programme.
- o International recognition: Yes
 - CALTECH, USA entrusted the School of Environmental Sciences for conducting the field trial on the “Self-contained, PV powered domestic toilet and waste water treatment system”. One year field trial by operating and managing the system within MGU campus was completed successfully.
 - UGC / Obama programme

21. Special research laboratories sponsored by / created by industry or corporate bodies:

Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 151 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 193 |
| 4. | Chapters in Books | 4 |
| 5. | Edited Books | 0 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 0 |
| 9. | Total | 349 |

Number listed in International Database (For e.g. Web of Science, Scopus, Cross-Ref, SCIMAGO, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- Citation Index – range / average:
- SNIP : Average : 1.215
- SJR : 0.885
- Impact Factor –average : 2.655
- h-index : 6-19

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated:

Environmental Pollution analysis for agencies, institutes, R&D departments, and Students

Income generated: ₹ 5.62 Lakhs

25. Faculty selected nationally / internationally to visit other laboratories / institutions Industries in India and abroad

| Sl. No. | Name of the faculty | Details |
|---------|------------------------|--|
| 1 | Dr. C.T. Aravindakumar | <ol style="list-style-type: none"> 1. University of Paris (S) / Pulse radiolysis, 2011 & 2012 2. Norwegian University of Science and Technology, Trondheim, Norway / Membrane Science, 2012 3. University of Paris (East, MIV) 2013 & 2015 / Advanced oxidation Process 4. Technical University of Denmark, Denmark 2015 / Membrane science 5. Hanoi University of Science & Technology, Vietnam, 2013/ Water purification technology 6. King Mongkut's University of Technology Thonburi, Thailand, .2012 / Water purification 7. University of Copenhagen 2015 / Mass spectrometry 8. Duke University, USA, 2014 (membrane fuel cells) 9. Brown University, USA 2014 (Water harvesting) 10. Plymouth State University, 2014 (Environmental monitoring) 11. BARC, Mumbai 12. NEERI, Nagpur 1. National Centre for Antarctic and Ocean research, Goa 13. BITS-PILANI, Goa 14. National Centre for Free Radical Research, Pune |



| | | |
|---|-------------------|---|
| 2 | Dr. E.V. Ramasamy | 1. Pondicherry University 2. Gandhigram Rural Institute |
| 3 | Dr. Mahesh Mohan | 1. Marine lab; Arctic Expedition team / Polar research 2. National Centre for Antarctic and Ocean research, Goa 3. Indian Institute of Geomagnetism, Mumbai 4. NIO, Mumbai 5. NCESS, Trivandrum |
| 4 | Dr. Syllas V.P. | 1. Brown University, USA / Ecology |

26. Faculty serving in

a) National committees

| Sl. No. | Name of the faculty | Committee |
|---------|------------------------|---|
| 1. | Dr. C.T. Aravindakumar | 1. Expert Panel of the Water Technology Initiative (WTI) of the Department of Science & Technology, Govt. of India-2015-2019 2. Antarctic Selection Committee – 2016 3. Arctic selection committee – 2015 4. Group leader in Environmental Science, Polar science policy deduction for Ministry of Earth Science, 2016 |

b) International committees

| Sl. No. | Name of the faculty | Committee |
|---------|------------------------|--|
| 1. | Dr. C.T. Aravindakumar | 1. Oslo Governance Forum (UNDP 2012), Norway |

c) Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|------------------------|--|
| 1. | Dr. C.T. Aravindakumar | International Journal of Chemistry (ISSN: 2249-2119) |

d) any other

| Sl. No. | Name of the faculty | Committee |
|---------|------------------------|--|
| 1. | Dr. C.T. Aravindakumar | • Governing Council and Executive Committee of Institute of Climate Change, Govt of Kerala |
| 2. | Dr. E.V. Ramasamy | • Member, Technical Committee, Suchithwa Mission, Government of Kerala |
| 3. | Mahesh Mohan | • Question paper setter by the Kerala State Public Service Commission, Govt. Of Kerala, Thiruvananthapuram. |
| 4. | Dr. V. P. Syllas | • Question paper setters by the Kerala State Public Service Commission, Govt. Of Kerala, Thiruvananthapuram. |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Refresher / orientation programs, workshops

| Name of the Faculty. | Programme | Institute | Duration | |
|----------------------|--|---|----------------------------------|--|
| Dr. Mahesh Mohan | Orientation Programme – IT oriented | University of Kerala, Thiruvananthapuram | 03.10.2013 to 30.10.2013 | UGC |
| | Refresher course | University of Kerala, Thiruvananthapuram | 09.01.2015 to 29.01.2015 | UGC |
| | Training on biological diversity act 2002 | IFGTB, Coimbatore | 17-19 February, 2016 | Indian Biodiversity Board |
| | Two day Hands on workshop on plant DNA barcoding | CMS college, Kottayam | 13-14 December 2011 | CMS college |
| | One day workshop on NAAC accreditation process | Mahatma Gandhi University, Kottayam | 12 th April 2016 | Mahatma Gandhi University |
| Dr. Sylas V.P. | Refresher Course - Environmental Science | University of Kerala, Thiruvananthapuram | 09.01.2015 to 29.01.2015 | UGC, New Delhi |
| | BIARI – 2013 (Brown International Advanced Research Institute) | Brown University, USA | June, 2013 | Brown University, USA |
| | Faculty Development Programme | Indian Institute of Technology, Madras | 4 to 6 th August 2014 | Indian Institute of Technology, Madras |
| | Induction Training Programme | FLAIR, Govt. of Kerala, Thiruvananthapuram | 28.10.2013 to 01.11.2013 | FLAIR, Govt. of Kerala, Thiruvananthapuram |
| | One day workshop on NAAC accreditation process | Mahatma Gandhi University, Kottayam | 12 th April 2016 | Mahatma Gandhi University |
| | US-India Brain storming Discussion Meeting on Faculty Development on | Mahatma Gandhi University, Kottayam, Kerala | January 06, 2014 | Mahatma Gandhi University |

Other Recharging Activities of teachers

Symposia/Conferences Attended (Plenary/Invited talk/paper presentation) ()

Abroad:

| | |
|--|---|
| Prof.C.T.Aravindakumar | <ol style="list-style-type: none"> 1. VIII EPOA-Meeting of Environmental Applications of Advanced Oxidation Processes: II CIPOA- Iberoamerican Congress of Advanced Oxidation Processes, Nov.3-6, 2015, Belo Horizonte, Brazil 2. International Conference on Advances in Applied Sciences and Environmental Technology, ASET, 21-22 Feb.2015, Bangkok, Thailand 3. International Conference on Advances in Environmental and Bio-Technology – (AEBT- 2014) , 04-05 January, 2015, Bangkok, Thailand 4. International Conference on Advances in Environmental and Bio-Technology – (AEBT- 2014) , 04-05 January, 2014, Bangkok, Thailand 5. 2nd International Conference on Environmental Pollution, Restoration and Management, Vietnam, March, 2013 6. 19th International Conference on Mass Spectrometry, Sept.15-21, 2012, Kyoto, Japan 7. AOP6 Oxidation Technologies for Water & Waste water treatment; May 7-9. 2012, Goslar, Germany 8. International Research Conference on Economics, Social Science and Environmental Issues, March 6-7, 2012, Bangkok, Thailand 9. Oslo Governance Forum (UNDP conference), Oct.3-5, 2011, Oslo, Norway |
| Prof.C.T.Aravindakumar (national level) | <ol style="list-style-type: none"> 1. International Conference on Frontiers of Mass Spectrometry, Dec.11-14, 2015, Kottayam, Kerala 2. International Conference on Water: From Pollution to Purification, Jan. 23 – 26, 2015, Kottayam, Kerala 3. International Conference on Advanced Oxidation Processes, Sept.25-28, 2014, Munnar, Kerala 4. National Symposium on Environment (NSE – 19), Dec 11-13, 2014, Kottayam 5. International Conference on Membranes, Oct.3-6, 2013, Kottayam, Kerala 6. Indo-Mexican Workshop on Water and Wastewater use and Management Nagpur, India, July 25-26, 2013 7. International Conference on Advanced Oxidation Processes, Oct.5-8, 2012, Kottayam 8. International Conference on Membranes; Biological and Environmental Applications, Sept.16-19, 2011, Kottayam |

Symposia/Conferences Attended (Plenary/Invited talk/paper presentation)

In India:

Dr.E.V.Ramasamy, Associate Professor

| Sl. No. | Title of Conference/ Seminar etc. | National / International | No. of lectures/ presentations/ Chairman of a Session |
|---------|--|---|---|
| 1 | First National Biodiversity Congress (NBC-2012). 27-30 December 2012. | National conference Organised by Kerala State Biodiversity Board , Thiruvananthapuram | Invited lecture 1 |
| 2 | National seminar on Municipal Solid Waste Management – Issues and Prospects, 2-3 March 2012. | National seminar Organised by Mar Athanasius College, Kothamangalam, Kerala. | Invited lecture 1 |
| 3 | National seminar on Green chemistry-The ultimate tool for pollution control. 14-15 February 2012 | National seminar Organised by Assumption College, Changanacherry. | Invited lecture 1 |
| 4 | UGC-ASC University of Calicut ,(2014) | Refresher Course in Environmental studies | Invited lecture 2 |
| 5 | UGC-ASC , Bharathiar University, (2014) Coimbatore | Refresher Course in Environmental studies | Invited lecture 2 |
| 6 | Panel Discussion at the Social Enclave 2013 , IIM, Kozhikode , February 17, 2013. | Regional meet,organised by Indian Institute of Management (IIM), Kozhikode. | Invited lecture 1 |
| 7. | Second International Conference on Advanced Oxidation Processes(AOP - 2012). October 5-8, 2012 | International Organized by SECAS, IUIC, SES – MG University, Kottayam. | Chaired a Technical session |
| 8. | National Conference on Biodiversity: richness, issues threats & conservation. Gandhigram Rural Institute, Gandhigram. January 19-21, 2011. | National Organised by Gandhigram Rural Institute, Gandhigram. Dindigul , Tamil Nadu | Invited lecture 1 |
| 9. | UGC National seminar on Indian Environmental Issues : Lessons from History, November 25-26, 2013. | National Organised by St.Teresa's College, Ernakulam | Invited lecture 1 |
| 10. | UGC National Seminar on Food, Environment & Medical Toxicology, The Cochin College, Cochin. September 29-30, 2014 | National Organised by: The Cochin College, Cochin. September 29-30, 2014 | Invited lecture 1 |
| 11. | State Seminar on Environment management, BCM College , Kottayam.. July 24-26, 2014 | State level seminar Organised by: BCM College ,Kottayam. | Invited lecture 1 |
| 12. | National Science day celebrations organised by MET's School of Engineering , Mala, Thrissur Dt., on February 26, 2016. | State level Organised by: MET's School of Engineering , Mala, Thrissur Dt., | Invited lecture |



Dr. Mahesh Mohan, Assistant Professor

| Sl. No. | Title of Lecture/Academic Session | Title of the Conference/Seminar/Event | Organized by | Class/ Talk or Chair |
|----------------|---|---|---|-----------------------------|
| 1 | Global environmental Pollutants- Status and significance | Refresher Course in Environmental studies | UGC-ASC University of Kannur,(2015) | Invited Talk |
| 2 | Global environmental Pollutants- Status and significance | Refresher Course in Environmental studies | UGC-ASC University of Kannur,(2015) | Invited Talk |
| 3. | Global Environmental Pollutants- India's Contributions | Environment Day Lecture, June 10, 2016 | St. Johns College, Anchal Kerala | Invited Talk |
| 4 | Arctic Expedition | Invited talk at as part of Environment Day Celebrations June 30, 2016 | St. Peters College, Kolenchery | Invited Talk |
| 5 | Arctic Environmental Research - India's contributions | Science day Lecture | DB college, Thalayolaparambu, February 24, 2016 | Invited talk |
| 6 | Persistent Bioaccumulative and toxic pollutants | Department Day lecture | BCM college, Kottayam, 2013 | Invited Talk |
| 7 | Global environmental Pollutants- Status, significance and actions | National seminar on Environment Management | BCM college, Kottayam, 25.07.2014 | Invited talk |

Dr. Syllas V.P., Assistant Professor

| Sl. No. | Title of Lecture/Academic Session | Title of the Conference/ Seminar/Event | Organized by | Class/ Talk or Chair |
|----------------|---|--|--|-----------------------------|
| 1 | Wetlands as Sustainable Livelihood Source | UGC sponsored National Seminar on Environmental Conservation for Sustainable Living. | Deva Matha Collge, Kuravilangad, Kottayam | Invited Talk |
| 2 | Conservation of the Environment | Regional Seminar on Challenges to Sustainable Development and Environmental Protection | SreeNarayana Gurukulam Engineering College, Kolenchery, Eranakulam | Invited Talk |

| | | | | |
|----|--|---|--|--------------|
| 3. | Vembanad Lake –an endangered wetland ecosystem of Kerala | UGC sponsored National Seminar on Wetland Conservation – Multidisciplinary approach | St. Joseph College, Alappuzha, Kerala | Invited Talk |
| 4 | Water Resources of Kerala | National Seminar on Water Resources | St. Johns College, Anchal, Kerala | Invited Talk |
| 5 | Wetlands are not wastelands | UGC Sponsored National Seminar – Phytoedu fest 2012 | Assumption College, Changanasserry, Kerala | Invited talk |

28. Student projects

| | |
|---|----------------|
| Percentage of students who have done in-house projects including inter-departmental projects | 60-80 % |
| Percentage of students doing projects in collaboration with other universities / industry / institute | 20-40 % |

29. Awards / recognitions received at the national and international level by

• Faculty

| Name of the faculty | Details |
|------------------------|---|
| Dr. C.T. Aravindakumar | <ol style="list-style-type: none"> 1. Visiting Professor at the University of Paris-East with full professor status, 2015 2. an invited member of the Oslo Governance Forum (OGF), Oslo (UNDP) 2011 3. Visiting Professor (with full Professor status) at the University of Paris-East (Department of Geology and Environment) 2013 4. Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies-2014 5. Team Leader in Environmental Science to formulate the research policy of the Ministry of Earth Science in India's Polar Research (Arctic/Antarctic/Southern Ocean/Himalaya) for the next 10 years. The Brainstorming Meeting on Polar Sciences and Global Water Cycle was held at the National Center for Antarctic and Ocean Research (NCAOR), Goa during April 13-14, 2016. 6. Invited as an expert for identifying research proposals for the India's 36th Antarctic Expedition 2016. The workshop was held during June 9-10, 2016 7. nominated to the Expert Panel of the Water Technology Initiative (WTI) of the Department of Science & Technology, Govt. of India 2015 |
| Dr. E.V. Ramasamy | <ol style="list-style-type: none"> 1. Member of the State Waste Management Policy Committee by the Local Self Government Department, Govt. of Kerala (November 14, 2012) |

| | |
|------------------|--|
| | <ol style="list-style-type: none"> Nominated as a member of the Technical Committee of Suchitwa Mission , Local Self Government Department, Govt. of Kerala , attended several meetings of the committee during 2014-15 Special Board of Studies in Pollution Control and Environmental Engineering of Pondicherry University (October 26, 2012 Participated in the selection committee meeting of the CWRDM (Centre for Water Resources Development and Management) ,Kozhikode as a subject expert in the interview board for the selection of Scientist-B during July 02- 03, 2015. Participated as the member of Board of Studies for the theB.Voc. Programme on Environmental Assessment and Remediation on Monday the 14th September, 2015, at Virudhunagar Hindu Nadars'; SenthikumaraNadar College, (Autonomous), Virudhunagar, Tamil Nadu. Participated in the Technical Committee meeting for evaluating the technical presentations of the organisations who have short listed for New Technologies on 28.11.2015 at 10.30 A.M onwards at the Office of State Institute of Health and Family Welfare, Thycad, Thiruvananthapuram, organised by Suchitwa Mission, Local Self Governance Department (LSGD), Govt. of Kerala |
| Dr. Mahesh Mohan | <ol style="list-style-type: none"> DST-SERB Fast Track Project for Young scientist Participated in Indian Arctic Expedition 2013-14 Participated in Indian Arctic Expedition 2014-15 Resource Person for Refresher Course in Environmental Sciences at UGC Academic Staff College, Kannur University, Kerala. 2015 Resource Person for Refresher Course in Environmental Sciences at UGC Academic Staff College, Kannur University, Kerala. 2014 The team leader selected for the Indian Arctic Expedition (July, 2015) |
| Dr. Syllas V.P | <ol style="list-style-type: none"> Brown International Advanced Research Institute (BIARI) – 2013 (June 06 – 24), Brown University, USA with full support. Member for the preparation of “Training module for Climate change; for LSGs of Kerala by the Kerala State Institute of Climate Change Studies-2015. invited to deliver a Radio talk on Kuttanad wetland ecosystem by All India Radio (AIR), Thiruvananthapuram Station |

• **Doctoral / post doctoral fellows**

| Name of the Doctoral fellows | Details |
|------------------------------|---|
| Sruthy S | 1. Dr. Satheesh Memorial Young Scientist Award for best paper presentation in 11 th Kerala Environment Congress (KEC-2015), 6 th to 8 th may 2015 organized by Centre for Environment and Development, Kottayam, Kerala |
| Daniya M. Thomas | 1. selected to Brown International Research Institute (BIARI), Brown University, USA – 2013 with full support |
| G. Akhil | 1. Best Paper Awards in the International Conference on Water: From Pollution to Purification, Jan.23-26, Kottayam 2. Best Paper Awards in the 26 th Kerala Science congress, January, Wayanad, 2014. 3. Best Paper Awards in 5th Asian Conference on Colloid and Interface Science, Darjeeling, November, 2013. |
| P. R. Manoj | 1. Best Paper Awards in the third International Conference on Advanced Oxidation Processes, Sept.25-28, Munnar 2. Best Paper Awards in the International Conference on frontiers of mass spectrometry (ICMS 2013), Sep.6-9, Kottayam, 2013 |
| Jisha C | 1. Best Paper Awards in the International conference on Nano - biomaterials, Kottayam, 2014. |
| Shibin N. B | 1. Best Paper Awards in the National Symposium on Radiation and Photochemistry (NSRP-2013), North Eastern Hill University, Shillong, March 20-22, 2013 |
| Shoniya Thomas | 1. Best Paper Awards in the National symposium on radiation and photochemistry, NSRP-2013, Shillong, March 20-22, 2013 2. Best Paper Awards in the International Conference on Advanced Oxidation Processes, Oct.5-8, Kottayam, 2012. |
| T.V. Divyalakshmi | 1. Best Paper Awards in the second international conference on membranes, Kottayam, October 4-6, 2013 2. Best Paper Awards in the Proc.-International conference on membranes: Environmental and biological applications, Sept.16-19, 2011 |
| Nikhil Chandra | 1. Best Paper Awards in the National Seminar (NSNano 2013), SN College, Kollam 2. Best Paper Awards in the National Seminar on Green Chemistry-The Ultimate tool for pollution control Changanasserry, February 14-15, 2012 |
| Siju Abraham | 1. Best Paper Awards in National seminar on green chemistry-The ultimate tool for pollution control, Changanacherry, February 14-15, 2012. 2. Best Paper Awards in the National seminar on sustainable development: Recent trends in meeting the challenges (NSSD-2012), Kottayam, January 20-21, 2012. |
| M. M. Sunil Paul | 1. Best Paper Awards in the Trombay Symposium on Radiation and Photochemistry, January 5-8, Mumbai, , 2012. |

• **Students who participated in Indian Arctic Expedition**

| Name of the students | Details |
|--|---|
| 1. Mr.Gopikrishnan VG (2014-15, 2015-16) 2. Mr.Shukur Abdul M. (2015-16) 3. Mr.Binish MB (2015-16, 2016-17) 4. Mr.Kannan VM (2015-16, 2016-17) 5. Mr. John Richard Thomas (2015-16) 6. Mr.Joice K. Joseph (2016-17) 7. Mr.ArunBabu V (2016-17) | The students were selected and participated in Arctic expedition. Mr. Gopikrishna VG, Mr. Binish MB and Mr. Kannan VM are doing their Doctoral research on Arctic environment |

30. Seminars/ Conferences/Workshops organized and the source of funding (national / International) with details of outstanding participants, if any.

| Sl. No. | Name of the Seminars/ Conferences/Workshops | Funding source | Outstanding participants |
|---------|--|---|---|
| 1. | LAKE-2012, National Conference on Conservation and Management of Wetland Ecosystems conducted at School of Environmental Sciences, MG University, Kottayam during November 6-8, 2012. | DST, KSCSTE, MG University, Kerala state Biodiversity Board | <ul style="list-style-type: none"> • Dr.T.V.Ramachandra, Indian Institute of Science, Bangalore; • Dr. SubashChandran, Indian Institute of Science, Bangalore; • DrLigi Philip, Indian Institute of Technology,Madras , • Dr.V.N.Rajasekaran Pillai, Executive Vice-President, KSCSTE, Thiruvananthapuram |
| 2. | National Seminar on Sustainable Development, conducted at School of Environmental Sciences, MG University, Kottayam 2012 | MG University | <ul style="list-style-type: none"> • Dr.T.V.Ramachandra, Indian Institute of Science, Bangalore • Dr. Shibu K. Mani , Tata Institute of Social Science , Mumbai • Dr. Sulthan AhmedIsmail , EcoScience, Chennai |
| 3. | International conference on Advanced Oxidation Processes (AOP2012) Oct.5-8, 2012, Kottayam <ul style="list-style-type: none"> • Adriana Zaleska, Gdansk University of Technology, Poland • BahnemanDetlef, Gottfried Wilhelm Leibniz Universitaet Hannover, GERMANY • Chantal Houee Levin, LCP, OrsayCedex • Choi Wonyong, Pohang University of Science and Technology (POSTECH), | BRNS, KSCSTE, DRDO, ISRO | |

| | | | |
|----|--|-----------------------|--|
| | <p>South Korea</p> <ul style="list-style-type: none"> • Christophe Colbeau-Justin, Université Paris-Sud, France • Constapel Marc, University of Wuppertal, Dept. Math. & Nat. Sci. Analyt. Chem., Germany • Cooper William J., Urban Water Research Center, University of California, Irvine, USA • Esplugas Santiago, University of Barcelona, MartiiFranques, Spain • Hyun-Ha Kim, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan • RemitaHynd, Universitaire Paris-Sud, France • TrojanowiczMarek, Warsaw University, Poland • Saha A., UGC-DAE Consortium for Scientific Research, Kolkata, India • Gomathi Devi L., Bangalore University, Karnataka • Halan Prakash, BITS-Pilani, Goa • Naik D.B., BAARC, Mumbai • Ramaraj R., Madurai Kamaraj University, Tamil Nadu, India • Satyajit Shukla, NIIST, Thiruvananthapuram | | |
| 4. | National Conference heavy Metals in the Environment' during November 28-29, 2013, School of Environmental Sciences, MGU | DoECC, MG University | <ul style="list-style-type: none"> • Dr. MNV Prasad, Hyderabad University • Dr. Nandita Singh, NBGRI, Lucknow • Dr. Dinesh Mohan, JNU • Dr.V.Subramaniyan, JNU |
| 5. | International Conference on Frontiers of Mass Spectrometry- ICMS 2013 (September 6-9, 2013) | BRNS, ISRO, DRDO, DST | <ul style="list-style-type: none"> • R. Srinivas, National Center for Mass Spectrometry, Hyderabad, India • Olivier Laprevote, Paris Descartes University, France • S. K. Raza, Institute of Pesticide Formulation Technology, India • GopalVaidyanathan, Waters India Pvt. Ltd., India • VenkateswarluPanchagnula, National Chemical Laboratory (CSIR – NCL), Pune • Mahesh J. Kulkarni, National Chemical Laboratory, Pune • Kenataro Yamaguchi, Tokushima Bunri University, Japan • S. K. Aggarwal, Bhabha Atomic Research Center, Mumbai, India • RamaswamyBabuRajendran, BharathidasanUniveristy, India • ShashinSha, BrukerDaltonics India Pvt. Ltd. • Suresh Kumar, SVNIT, Surat, India • S. K. Gupta, Bhabha Atomic Research Center, Mumbai, India • NagarjunaNagaraj, Max Planck Institute of Biochemistry, Germany • Abdul Jaleel, Rajiv Gandhi Center for Biotechnology, India • Mahesh Hariharan, IISER, Thiruvananthapuram • V. Nataraju, Bhabha Atomic Research Center, Mumbai, India • SangramPattanaik, Thermo Fisher Scientific India Pvt. Ltd. • JitendraKelkar, Shimadzu Analytical India Pvt. Ltd. |

| | | | |
|----|--|-----------------------|---|
| | <ul style="list-style-type: none"> Ashok Kumar Malik, Panjab University, Patiala, India P. G. Shah, Anand Agricultural University, Gujarat, India S. Prabhakar, National Center for Mass Spectrometry, Hyderabad, India VivekDhyani, Agilent Technologies, India | | |
| 6. | Nineteenth National Symposium on Environment (NSE-19) , December 11-13, 2014 at School of Environmental Sciences, MG University | BRNS, KSCSTE | <ul style="list-style-type: none"> Dr. SR Wate, NEERI Dr. PM Ravi, HPD, BARC, Mumbai Dr. SP Kale, BARC Dr. Mukesh Sharma, IIT, Kanpur Dr. GG Pandit, BARC Dr. DN Singh, IIT Mumbai |
| 7. | International Conference on Advanced Oxidation Processes (AOP 2014), September 25-28, 2014 Munnar, | DST, BRNS, DRDO, ISRO | <ul style="list-style-type: none"> Michael R. Hoffmann, California Institute of Technology, USA L. Gomathi Devi, Bangalore University, India Mehmet A. Oturan, Universite Paris-Est, Marne-la-Vallee, France Collin G. Joseph, Universiti Malaysia Sabah, Malaysia Anju Chadha, IIT, Madras, India Halan Prakash, BITS Pilani, Goa, India Sathyajit Shukla, CSIR-NIIST, Thiruvananthapuram, India D. Fatta-Kassinos, University of Cyprus Sushil Kumar Kansal, Dr. S. S. Bhatnagar University Institute of Chemical Engineering and Technology, Punjab, India K. Indira Priyadarsini, Bhabha Atomic Research Center, Mumbai, India Minjoong Yoon, Chungnam National University, Daejeon, South Korea Renato FalcaoDantas, University of Campinas, Limeira SP, Brazil Christophe Colbeau-Justin, CNRS-Universite Paris-Sud, Orsay, France D. B. Naik, Bhabha Atomic Research Center, Mumbai, India UrskaLavrencicStangar, University of Nova Gorica, Slovenia Randolph P. Thummel, University of Houston, USA Stephan Brosillon, Universite Montpellier 2, France Vincent Goetz, Rambla de la Thermodynamique, Perpignan, France ConchiAnia, InstitutoNacional del Carbon, Spain Vasundhara Singh, PEC University of Technology, Chandigarh, India Isabel OllerAlberola, Plataforma Solar de Almeria-CIEMAT, Spain Amrit Pal Toor, Punjab University, Chandigarh, India N. R. Shiju, University of Amsterdam, The Netherlands S. V. Sreenivasan, Center Leather Research Institute, Adyar, India |

| | | | |
|----|---|-----|---|
| 8. | International Conference on Frontiers of Mass spectrometry, December 11-14, 2015. Kottayam | DST | |
| | <ul style="list-style-type: none"> • Marc J-F Suter, Eawag, Switzerland • Michael W. Linscheid, Humboldt-Universitaetzu Berlin, Germany • AthulaAttygalle, Stevens Institute of Technology, USA • EvgenyNikolaev, Physics Russian Academy of Sciences, Russia • AchilleCappiello, Università di Urbino, Italia • Olivier Laprevote, Paris Descartes University, France • R. Srinivas, National Centre for Mass Spectrometry, CSIR-IICT, Hyderabad, India • Abdul Jaleel, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala • VenkateswarluPanchagnula, National Chemical Laboratory (CSIR – NCL), Pune • Keshava Prasad, Institute of Bioinformatics, Bangalore, India • Suman S. Thakur, CSIR- Centre for Cellular & Molecular Biology, Hyderabad, India • Laurent Debrauwer, INRA, TOXALIM, Toulouse, France • Bhaswati Chatterjee, NIPER, Hyderabad, India • M. Joseph, IGCAR, Kalpakkam, Tamilnadu, India • Pierangela Palma, University of Urbino, Italy • George Mathai, Sacred Heart College, Thevara, Kochi, India • Igor Popov, Moscow Institute of Physics and Technology, Russia • Amit Kumar Mandal, St. Johns Research Institute, Bangalore, India | | |
| 9. | OSI workshop on “Membrane technology” in collaboration with Duke University, August 2015 | UGC | <ul style="list-style-type: none"> • Andreas Kaiser, Technical University of Denmark • Pushpito Ghosh, CSMCRI, Gujrat • Yoram Oren, Bengurion University, Israel |

31. Code of ethics for research followed by the departments:

Plagiarism is being assessed before thesis submission. Ethical guidelines of the University is being strictly followed (e.g. Animal Ethical Committee for all kind of research related to living organisms).The software used by the students and faculty members for research and educational purposes are of licensed version (original). The School has a division of Remote Sensing and GIS and all the software used by the division are procured from the authorised agencies and the remote sensing data are given by the Department of Space, ISRO, Govt. of India.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications Received | Selected | | Pass percentage | |
|--|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.Sc. | 59 (Yr.2010) | 3 | 17 | 100 | 100 |
| | 96 (Yr. 2011) | 7 | 13 | 100 | 100 |
| | 126 (Yr. 2012) | 6 | 14 | 100 | 100 |
| | 238 (Yr.2013) | 2 | 18 | 100 | 100 |
| | 358 (Yr. 2014) | 8 | 12 | 100 | 100 |
| | 376 (Yr.2015) | 5 | 14 | 80% | 100 |
| | 336 (Yr.2016) | 5 | 12 | 100 | 100 |
| M.Phil | 75(2010-11) | 1 | 7 | 100 | 100 |
| | 56(2011-12) | 2 | 6 | 100 | 100 |
| | 65 (2012-13) | 1 | 7 | 100 | 100 |
| | 33 (2013-14) | 1 | 7 | 100 | 100 |
| | 44 (2014-15) | 1 | 7 | 100 | 100 |
| | 26 (2015-16) | 4 | 4 | 100 | 100 |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| M.Sc. (2013) | 85 | 15 | | |
| M.Phil (2013) | 88 | 12 | | |
| M.Sc (2014) | 73 | 21 | 6 | |
| M.Phil (2014) | 87 | 13 | | |
| M.Sc (2015) | 42 | 47 | 11 | |
| M.Phil (2015) | 87 | 13 | | |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise :

| Sl. No | NET/ JRF Qualified | GATE | SET | Others |
|--------|--------------------|------|-----|--------|
| 1. | 8 | 0 | 0 | Nil |

35. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | 10 |
| PG to Ph.D. | 30 |
| Ph.D. to Post-Doctoral | 10 |
| Employed | |
| <input type="checkbox"/> Campus selection | 0 |
| <input type="checkbox"/> Other than campus recruitment | 40 |
| Entrepreneurs | 5 |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|----|
| of the same university | 50 |
| from other universities within the State | 0 |
| from universities from other States from | 50 |
| universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|--|
| a) Library | Available, 5607 books |
| b) Internet facilities for staff and students | Available, 135 ports and 4 Wi-Fi systems |

| | |
|----------------------------------|---|
| c) Total number of class rooms | 7 |
| d) Class rooms with ICT facility | Yes, 7 |
| e) Students' laboratories | 3 |
| f) Research laboratories | 11 Environmental chemistry Lab Environmental Biotechnology Lab Environmental Microbiology Lab Remote Sensing and GIS Lab Mass Spectrometric Lab Mercury Analytical Facility Instrumentation rooms – 3 GC-MS lab Metal analytical Lab |

39. List of doctoral, post-doctoral students and Research Associates (present students)
a) from the host institution/university

| Name of Guide | Name of Scholar | Post-doctoral |
|----------------------|----------------------|---------------|
| Dr. CT Aravidakumar | Jeeva M Philip | Nil |
| | Nejuma KK | |
| | John Richard Thomas | |
| Dr. EV Ramasamy | ArunBabu V | |
| | Toms Augustine | |
| | Sruthy S nair | |
| | Sajithkumar KJ | |
| | Sruthy S | |
| | Rahul K | |
| Dr. Mahesh Mohan | Binish MB | |
| | Gopikrishna VG | |
| | Neethu Joy | |
| | Krishna MP | |
| | Kannan VM | |
| | BaluBalachandran | |
| Dr. Syllas VP | Jerry Mecherry | |
| | Daniya M Thomas | |
| | RaisaKabeer | |
| | Praveenkumas CS | |
| Dr. AP Thomas | Deepthi G Nair | |
| | BabuPadmakumar | |
| | Sethulakshmi Bhai KC | |
| | Jaisen ND | |
| Dr.APPradeepkumar | LinuBabu | |
| | KarunakaranAkhilDev | |
| Dr. AA Mohamed Hatha | Jesmi Yousuf | |

b) from other institutions/universities

| Name of Guide | Name of Scholar | Post-doctoral |
|---------------------|---------------------|---------------|
| Dr. CT Aravidakumar | Manoj PR | Nil |
| Dr. EV Ramasamy | Mahalaxmi N | |
| | Divya Ashok | |
| Dr. Mahesh Mohan | ArunSasi S | |
| | Abdul Shukoor M | |
| | Sijimol MR | |
| | Phebe Joseph | |
| Dr. Syllas VP | Laigi Joseph | |
| | Neethu Cyril | |
| Dr. AP Thomas | Vijo Thomas Kurien | |
| | Poornima Baby | |
| | Cinnie Susan Antony | |
| Dr. V George | Lekshmi V Bose | |
| Dr.Manilal | Aneesh C | |

40. Number of post graduate students getting financial assistance from the university.

Period 2010-16

- 2010 (6 students from Govt.) M Phil : (3 students from Govt.)
- 2011 (11 students from Govt.) M.Phil: (3 students from Govt) 2011
- 2012 (15 students from Govt.) M.Phil: (2 students from Govt) 2012
- M.Sc. (10 students from Govt.) M.Phil: (4 students from Govt) 2013
- M.Sc. (4), M.Phil (3) 2014
- M.Sc. (4), M.Phil (3); 2015

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

No new programme was started in the period under report.

42. Does the department obtain feedback from

| | |
|---|---|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. The faculty council assesses the report periodically and rectify the shortcomings (If any). |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes. The faculty council discusses the evaluation report of the feedback from the students and rectify any shortcomings to the maximum possible extent |

| | |
|---|---|
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Yes. Feedback from alumni are regularly collected and due importance is given to their suggestions. |
|---|---|

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|------------------------|--|
| 1. | Mr. Sreekandan Nair | Former Director, DoECC, Government of Kerala |
| 2. | Dr. PC Abhilash | Assistant Professor, BHU |
| 3. | Dr. Shijo Joseph | Scientist E, KFRI |
| 4. | Dr. Rakesh PS | Scientist, NIO, Mumbai |
| 5. | Dr. B. Ajayakumar | Geologist, Department of Mining and Geology, Kerala |
| 6. | Dr. Joshy George | Central Institute of Mining and Fuel Research, Dhanbad |
| 7. | Dr. (Sr.) M.K Alphonsa | Principal, Morning Star College, Angamaly |
| 8. | Dr. Suboj Babukkutty | Associate Professor, Mar Ivanios College, Thiruvananthapuram |
| 9. | Mr. Kurien John | Former Principal, Marthoma College, Thiruvalla |
| 10. | Dr. T.U Sukumaran | Paediatrician, Government Medical College(ICH), Kottayam |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Erudite / Scholar in residence programmes enrich the students with international level of knowledge mostly from eminent scholars and Nobel laureates.
- Spoken English coaching was provided to the PG/M.Phil/Ph.D students
- Five students were participated in Indian Arctic expedition during 2014-15 and 2015-16
- Special invited lectures by eminent scholars from within and outside the country were organised periodically.
- Special field trip/ study trips were organised for the students during the World Environment Day / World Water day, to provide an exposure to the students on social responsibility on cleaning the Environment.

45. List the teaching methods adopted by the faculty for different programmes.

- Field oriented study methods form the part of the curriculum of M.Sc and M.Phil programmes.
- Interactive class room with power point/video facilities
- Free MOOC program in collaboration with IIRS, ISRO, Hyderabad is given to the students.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Faculty council periodically assess the

- a) Progress and output of research
- b) Percentage of students going for higher education as well as employment
- c) Evaluate the success of our extension activities

47. Highlight the participation of students and faculty in extension activities.

- Rainwater for humanity program
- Open house programme conducted for the school children to visit the school laboratories and 'Jeevaka Live Laboratory'
- Energy conservation, water conservation studies by the M.Sc students
- Energy audit and solid waste audit as group project done for the campus by the PG students.
- Water quality testing for the public – this involves students and faculty members.

48. Give details of “beyond syllabus scholarly activities” of the department.

- CLENS: Club of Environment students. CLENS meet periodically to discuss about various Environmental Issues pertaining mainly to the campus. The efforts of this club (CLENS) has resulted in to the University Order to ban the use of Plastic Banners (FLEX) in the campus, as the first phase of banning the use of plastics in the campus.
- The Thursday club – as the name suggests – meets on every Thursdays of the week and short talks on any topic of their interest will be delivered by the members, this club was mainly to improve the communication skills (in English) of the students.
- SWAAD 2013, 2014 and 2015: A grand Food festival is being organised by the School every year in order to encourage the cooking habits among the students. Thrust is normally given to promote preparation of indigenous food items by the students and teachers. The food items will be evaluated by the expert team consisting chefs from star hotels, restaurants. The best three teams will be awarded

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details :Yes

The national agencies accredited the School with various programmes

1. The School is a part of Indian Arctic expedition and Scientific Research of Earth System Science Organisation (ESSO)- National Centre for Antarctic and Ocean Research (NCAOR), MoES since 2013-14 expedition.
2. The School is a part of two National Programmes from BRNS, BARC such as (a) Nationwide Environmental Gamma Radiation Monitoring Using TLDs ; (b) Investigation of the special distribution of uranium and associated water quality parameters in five central districts of Kerala
3. The School is a part of National Vegetation Carbon Pool Assessment Programmes of IIRS, ISRO, Department of Space, Govt. of India
4. The School has been selected for the first UGC-Obama Singh 21st Century knowledge initiative Programme and thus Mahatma Gandhi University has become the first state university being awarded with this prestigious award.
5. CALTECH, USA entrusted the School of Environmental Sciences for conducting the field trial on the “Self-contained , PV powered domestic toilet and waste water treatment system”. One year field trial by operating and managing the system within MGU campus was completed successfully.
6. The School is also recognized by DST-FIST, DST-PURSE

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The school generates new knowledge in the field of basic and applied sciences. This involves identification (subsequent publication) of new flora / faunal species, technology development. All these are evident from our publications in Journals of basic and applied sciences.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- 1) State of the art research facilities
- 2) Mobilisation of external resources
- 3) Extension activities of social relevance
- 4) Consultancy and Department Development Fund
- 5) National and International Linkages/Collaborations

Weakness

- 1) Shortage of faculty members.
- 2) Lack of understanding of the interdisciplinary nature of the subject among public.
- 3) Low student diversity (other states/countries).
- 4) Lack of popularisation of the entrance examination conducted for PG admission
- 5) Lack of manpower for maintaining the sophisticated instrument facilities.

Opportunities

- 1) Diversified areas of research
- 2) Participation in meetings directing the law makers/policy makers
- 3) Catalyse eco-friendly/sustainable development
- 4) Promote environmental awareness and education
- 5) Support disaster management and related activities

Challenges

- 1) In developing cost effective eco-friendly technologies
- 2) To attract students towards the interdisciplinary subject
- 3) Taking up of extension and consultancy services with low manpower involvement
- 4) To strengthen the environmental awareness/education among Public
- 5) Up-keeping the instrumental facilities in working condition

52. Future plans of the department.

- a) To start an M.Tech. Programme in Environment Science and Technology
- b) To enhance the student strength in Masters and M.Phil programme along with the faculty strength
- c) To start an exclusive Centre for Wetland Research (Vembanad Environment Research Centre)
- d) To strengthen the analytical skill of the PG students through summer training programme on hands-on-experience in sophisticated analytical instruments
- e) To enhance and strengthen Polar Environment Research under the Polar expedition programmes of Government of India.
- f) To install a roof-top rainwater harvesting structure of capacity 69,000 litres at the school first of its kind in the MGU campus to overcome the water scarcity in summer months as well as to reuse the water in the analytical labs – especially in the water distillation units – in order to conserve this precious resource, again first of its kind perhaps in the state or even in the country.
- g) To initiate and strengthen Marine environmental research



SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT STUDIES

| | | | | | |
|-----|---|--|------------|--------|---------------------------|
| 1 | Name of the Department | School of Gandhi an Thought & Development Studies | | | |
| 2 | Year of establishment | 1983 | | | |
| 3 | Is the Department part of a School/Faculty of the University? | Yes, Faculty of Social Sciences | | | |
| 4 | 4. Names of programmes offered (UG, PG, M.Phil, Ph.D, Integrated Masters, Integrated Ph.D, D.Sc, D.Litt, etc). | M.A in Gandhian Studies, M.A In Development Studies M.Phil in Gandhian Studies M.Phil in Development Studies M.Phil in Social Work Ph.D. in Social Work/Development Studies/ Gandhian Studies | | | |
| 5 | Interdisciplinary Programmes and departments involved | The academic programmes of the school are highly inter disciplinary. Inter disciplinary research programme of the school signifies scholars from any social science discipline and are permitted to do research in the school subject to the University rules & regulations. | | | |
| 6 | Courses in collaboration with other universities, industries, foreign institutions etc | Nil | | | |
| 7 | Details of programmes discontinued, if any, with reasons | Nil | | | |
| 8 | Examination System: Annual/Semester/Trimester/Choice Based Credit System : | Semester(Choice Based Credit System) | | | |
| 9 | Participation of the department in the courses offered by other departments | Our post graduate students are attending the open courses offered by the other schools of University and we are offering an open course on Fundamentals of Gandhian Thought where in students from, other schools of the University are permitted to attend. | | | |
| 10. | Number of teaching posts sanctioned, filled and actual (Professors, Associate Professors/Asst.Professors/others | | Sanctioned | Filled | Actual(including CAS&MPS) |
| | | Professor | 1 | 0 | 0 |
| | | Associate Professor | 2 | 0 | 0 |
| | | Asst. Professors | 5 | 4 | 4 |
| | | Others | 0 | 0 | 0 |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of years of Experience | No. of Ph.D./M.Phil. Students guided for the last 6 years |
|---------------------------------------|--------------------------|---------------------|---|----------------------------|---|
| Dr.Roy C Mathew | M.A., Ph.D | Assistant Professor | Human Resource Management Development Studies | 11 | Ph.D-19 M.Phil- 18 |
| Dr.Sandhya R.S | M.A ,Ph.D | “ | Social Gerontology Gender Studies | 10 | Ph.D - 11 M.Phil- 18 |
| Dr.C.R.Harilakshmeendran Kumar | M.A., Ph.D, Ph.D | “ | Gandhian Studies, Rural Development, Field work, Yoga | 8 | Ph.D- 11 M Phil-18 |
| Smt.Manjusha K A | M.A (History), B.Ed(CSS) | “ | History, Tribal Studies | 6 | M Phil -18 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl.No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|-------|--|---|--|
| 1. | Prof. Dr.Narayana Pillai, Ret. Prof. Dept. of Sociology University of Kerala | Visiting Fellow | Sociology, Medical sociology, Research methodology |
| 2. | Dr. Joseph Mathew, Asso. Prof. Dept. of Gandhian Studies, Karnatak University, Dharwad | Visiting Fellow | Gandhian studies, education, Rural development, Research methodology |
| 3. | Prof Dr N Radhakrishnan | Visiting Fellow | Gandhian studies, peace studies, Gandhian Economics |
| 4. | Dr Willian Bhasker | Visiting Fellow | Gandhian studies, Development Studies |
| 5. | Dr Lal Das | Visiting Fellow | Research methodology, SPSS, Social work |



| | | | |
|----|---------------------|-----------------|---|
| 6. | Dr A.K Chirappaneth | Visiting Fellow | Gandhian Philosophy, Religion, Peace studies |
| 7. | Dr M.P Mathai | Visiting Fellow | Gandhian studies, Peace studies, Gandhian Economics |
| 8. | Sri. AV Joseph | Visiting Fellow | Gandhian Economics, Social Work, Field work |
| | Dr Antony Palackal | Visiting Fellow | Sociology, Research Methodology, Social Theories |

13. Percentage of classes taken by temporary faculty – Programme-wise Information

| Programme | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|-----------|---------|---------|---------|---------|---------|---------|
| MA | 20 | NIL | NIL | NIL | NIL | NIL |
| M.Phil | 20 | NIL | NIL | NIL | NIL | NIL |
| Ph.D | NIL | NIL | NIL | NIL | NIL | NIL |

14. Programme –wise Student Teacher Ratio:

| Sl. No. | Course | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------|--------|-------|-------|-------|-------|------|------|
| 01 | M.A | 48:7 | 48:7 | 48:6 | 48:6 | 48:5 | 48:4 |
| 02 | M.Phil | 11:7 | 11:7 | 11:6 | 11:6 | 11:5 | 11:4 |
| 03 | Ph.D. | 96:12 | 96:11 | 96:11 | 96:11 | 96:9 | 96:9 |

15. Number of academic support staff(technical) and administrative Sanctioned, filled and Actual:

| Support staff | Sanctioned | Filled |
|--------------------------------|------------|--------|
| Administrative Officer | 1 | 1 |
| Assistant Section Officer | 1 | 1 |
| Office Superintendent | 1 | 1 |
| Technical Assistant(Librarian) | 1 | 1 |
| Peon | 1 | vacant |

16. Research thrust areas as recognized by major funding agencies:

- Tribal Welfare
- Rural Development & Gandhian Philosophy
- Social work
- Gerontology
- Human Resource Development
- Development Studies
- Yoga & Naturopathy

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise

a) National

| Sl. No | Title of the Project | Duration | Funding Agency | Total amount in Lakhs (₹) |
|--------------|---|----------|----------------|---------------------------|
| 1. | "Vulnerability of Elderly Widows in Kerala" (Dr.Sandhya R S) | 2011-12 | UGC | 7.27 |
| 2. | Impact of Public Policy and Rural Re-construction: An Analysis of Gandhian Approach(Dr. D. Nirmala Devi) | 2012-14 | UGC | 5.66 |
| 3. | "Human Rights & Tribal Development:A Comparative study on the Malaipandaram Tribes in Pathanamthitta and Kollam Districts in Kerala" (Smt. Manjusha KA) | 2015-16 | ICSSR | 20.00 |
| Total | | | | 32.93 lakhs |

b) International: Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration : Nil

b) International collaboration : Nil

Total grants received: NIL

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc:

| SL.No | Funding Agency | Total amount in Lakhs (₹) |
|-------|----------------|---------------------------|
| 1. | UGC – SAP | 24.00 |
| 2. | ICSSR | 16.00 |
| 3. | UGC | 12.93 |

Total Grant received: ₹ 52.93 Lakhs



20. Research facility/Centre with

- State recognition Yes
- National recognition Yes
- Inter National recognition Nil

21. Special research laboratories sponsored created by industry or corporate bodies

Nil

22. Publications

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 37 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 1 |
| 9. | Total | 42 |

- Number listed in International Database : 8
(For e.g. Web of Science, Scopus, Humanities, International Complete, Dare Database –

International Social Sciences Directory, EBSCO, Host, etc.)

- Citation Index – range/average : 1
- SNIP : Nil
- SJR : Nil
- Impact Factor – range /average
- H-index : 1

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad :

Prof Dr.M.S.John

| Sl.No. | Name of the university/industry | Duration | Purpose |
|--------|-----------------------------------|------------|-------------------------|
| 1. | IIT Madras, Humanities Department | 2011- 2012 | Professor on deputation |

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) anyother (please specify)

a) National committees: Nil

b) International committees: Nil

c) Editorial Boards

| Sl. No. | Name of the faculty | Committee |
|---------|-------------------------------|--|
| 1. | Dr.M.S.John, Professor | Chief Editor – Gandhi Marg |
| 2. | Dr C.R Harilekshmeendra Kumar | Online journal, M.G University, Kottayam |

d) Anyother

| Sl. No. | Name of the faculty | Committee |
|---------|-------------------------------|--|
| 1. | Dr Sandhya RS | Human Ethics Committee, M.G University |
| 2. | Smt. Manjusha KA | SC/ST Monitoring Committee, M.G University |
| 3. | Dr C.R Harilekshmeendra Kumar | IQAC Co-ordinator, SGTDS, M.G University, BOS, Calicut University, Calicut |

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs):

| | |
|---|-----------|
| Orientation Course | 4 |
| Refresher Course | 5 |
| Short term course/Training programme | 4 |
| Workshop | 25 |

28. Student projects :

| | |
|---|----|
| • Percentage of students who have done in-house projects including inter-departmental projects | 40 |
| • Percentage of students doing projects in collaboration with other universities / industry / institute | 60 |



29. Awards/recognitions received at the national and international level by

- Faculty :

| Name of the faculty | Awards/recognitions |
|--------------------------------|---|
| Dr.C. R.Harilakshmeendra Kumar | GICSNA (Government of India Certified Senior Naturopath Association) National Award for the contributions rendered to the academic propagation of Yoga & Naturopathy in the national and international level. |

- Doctoral / post-doctoral fellows:

| | |
|--|-----|
| Name of the Doctoral / post-doctoral fellows | Nil |
|--|-----|

- Student :

| | |
|---------------------|-----|
| Name of the student | Nil |
|---------------------|-----|

30. Seminars/Conferences/Workshops organized and the source of funding, (national/ international) with details of outstanding participants, if any:

| Year | Seminars/ Conferences/ Workshops | Source of funding | outstanding participants |
|---------|----------------------------------|-------------------|--------------------------|
| 2010-11 | 1 | UGC SAP | 4 |
| 2011-12 | 1 | UGC SAP | 5 |
| 2012-13 | 2 | ICHR, UGC | 12 |
| 2013-14 | 2 | UGC, ICSSR | 8 |
| 2014-15 | 1 | UGC | 5 |
| 2015-16 | 3 | UGC | 12 |

31. Code of ethics for research followed by the departments:

Department has a department ethics committee for conduct of research

- Code of ethics is followed during selection of research topics for Ph.D.
- Plagiarism is strictly banned and avoided.
- Licensed soft wares are used for research purposes.

32. Student profile programme-wise**2011-2012**

| Name of the Programme(refer to question no.4) | Applications received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.A | 38 | 9 | 15 | 37.5 | 62.5 |
| M.Phil | 26 | 4 | 7 | 36.3 | 63.7 |
| Ph.D. Course Work | 35 | 7 | 5 | 58.3 | 41.7 |

2012 - 2013

| Name of the Programme(refer to question no.4) | Applications received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.A | 26 | 14 | 10 | 58.3 | 41.7 |
| M.Phil | 27 | 3 | 8 | 27.2 | 72.8 |
| Ph.D Course work | 39 | 7 | 6 | 53.8 | 46.2 |

2013 -2014

| Name of the Programme(refer to question no.4) | Applications received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.A | Through CAP | 14 | 10 | 58.3 | 41.7 |
| M.Phil | 40 | 10 | 7 | 58.8 | 41.2 |
| Ph.D Course work | 24 | 5 | 7 | 41.7 | 58.3 |

2014-2015

| Name of the Programme(refer to question no.4) | Applications received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.A | Through CAP | 16 | 4 | 80.0 | 20.0 |
| M.Phil | 36 | 9 | 2 | 81.8 | 18.2 |
| Ph.D Course work | 28 | 7 | 8 | 46.7 | 53.3 |



2015 -2016

| Name of the Programme(refer to question no.4) | Applications received | Selected | | Pass | |
|---|-----------------------|----------|--------|--------------------|--------|
| | | Male | Female | percentage Male | Female |
| M.A | Through CAP | 11 | 10 | Exam not conducted | |
| M.Phil | 30 | 3 | 8 | | |
| Ph.D. Course work | 23 | 2 | 8 | | |

33. Diversity of students

| Name of the Programme (refer to question no.4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| M.A | 80% | 19% | 1% | Nil |
| M.Phil | 85% | 13% | 2% | Nil |
| Ph.D | 88% | 10% | 1% | 1% |

34. How many students have cleared Civil Services and Defence Services examination, NET, SET, GATE and other competitive examinations? Give details category-wise- list of students passed NET examination

| NET/ JRF Qualified | GATE | SET | Kerala PSC |
|--------------------|------|-----|------------|
| 14 | Nil | 5 | 35 |

35. Student progression

| | |
|--|-----|
| UG to PG | Nil |
| PG to M.Phil | 90% |
| PG to Ph.D | 15% |
| Ph.D to Post - Doctoral | 1 |
| Employed <ul style="list-style-type: none"> Campus selection Other than campus recruitment | 35% |
| Entrepreneurs | 0 |

36. Diversity of Staff

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | 25% |
| From other universities within the State | 50% |
| From universities from other States from | 25% |
| Universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil; Ph.D, DSc and D.Litt. during the assessment Period

Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|---|
| a) Library | 8000 books and other learning resources |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | 6 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | 1 |
| f) Research laboratories | Nil |



39. List of doctoral, post-doctoral students and Research Associates

a) From the host institution/university :

| Name of Guide | Name of Scholar |
|--------------------------|---|
| Dr.Nirmaladevi.D | Abraham Kurian Arun Sajini |
| Dr.MahajanP.Mani | . Brinda Nelson Deepak Joseph |
| Dr.M.S.John | Nisha.V.Nair Anto.S.V Mohammed Shihab |
| Dr.RoyC.Mathew | Vidhya Vijayan |
| Dr.Sandhya .R.S | Anusha Sinu.I.Paul Shijimol |
| Dr.Harilakshmeendrakumar | Tiji.P.V. Surendran.P.G. Santhosh.K Ratheesh.P.R. Ramesh.V.P. |

b) From other institutions/universities

| Name of Guide | Name of Scholar |
|-------------------|---|
| Dr.Nirmaladevi. D | T.Chuba Jamir AnithaM.Palakkal |
| Dr.MahajanP.Mani | Meera.E.H Minu.M.Kumar Solomon.K. Elizabth Gabriel Jolly K.James Asha .C.M. JofferKorra Priya George |
| Dr.M.S.John | Sabu Thomas Deepthi.M.U |
| Dr.RoyC.Mathew | Roopa.S Jessy.L Prima George Jiby Jose |

| | |
|--------------------------|--|
| Dr.Sandhya .R.S | Robin Mathew Ann Kavitha Mathew Febin Baby Sudheeran.T.S Sreesha Neena AmrithaRinu Abraham Unnikrishnan Shimi E Chandran |
| Dr.Harilakshmeendrakumar | Anilkumar.P.K. Kripa.K.Alex Ambily.C.K. Sreemol.S. Mathew Joseph Fr.Saji Varghese |

| Name of Guide | Post-doctoral |
|---------------|-----------------------|
| Dr.M.S.John | Dr.NishaVelappan Nair |

40. Number of post graduate students getting financial assistance from the university

Period 2010-2016

| Fellowship | Number |
|------------|--------|
| E grants | 62 |

41. Was any need assessment exercise undertaken before the development of new programme Yes, through surveys and exploratory research studies. This means the employment potential of the programme is assessed through discussions with experts, members of the alumni, corporate executives etc.

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Based on the feedback from stakeholders (alumni, research institute, academics, social science institutes etc.), improvements are effected in the curriculum as well as teaching- learning process. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback. | a) Based on the feedback improvements are effected in the curriculum as well as teaching learning process b) Based on the feedback the training needs of the teachers are identified and used to take pro active steps in these counts. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Based on the feedback the training needs of the teachers are identified and are used to take proactive steps towards improvement. |



43. List of distinguished alumni of the department (Maximum 10)

| Sl No. | Name | Current Position |
|--------|----------------------------|--|
| 1. | Dr.Aby George | Regional Director of Tata Institute of Social Sciences |
| 2. | Dr.Siby K Joseph | Dean, Institute of Gandhian Studies, Wardha |
| 3. | Stephen George | Former Member of Legislative Assembly, Kerala |
| 4. | Dr. MP Mathai | Former Professor , School of Gandhian Thought and Development Studies, MG University & Visiting Professor, Gujarat Vidyapeet, Ahmadabad. |
| 5. | Venu Nair | National Award winner and Film Maker |
| 6. | Jayashankar Bhaskaran | Cataloging Officer in US Embassy, New Delhi |
| 7. | Charles Mittathani | World Vision, Non-Governmental Organization |
| 8. | Dr.Abhilash Babu | Assistant Professor, Central University, Gujarat |
| 9. | Varghese John Thottappuzha | Chief Editor(Research), Malayala Manorama, Prominent Malayalam newspaper. |
| 10. | Dr.Aby P.Joy | Editor, Mathrubhoomi, Prominent Malayalam newspaper. |

44. Give details of student enrichment programmes (Special lectures/workshops/seminar lectures/workshops/seminar)

| S.L No | Name of the programme | Date | Remarks |
|--------|--|---------|--|
| 1. | Workshop on Gandhian Philosophy | 2011-12 | Dr.K.Radhakrishnan |
| 2. | Workshop on Statistical Package for social sciences | 2012-13 | Dr.Sudheer, Gandhi Gram Rural Institute, Madhurai. |
| 3. | Workshop on Research Methodology | 2013-14 | Dr.LAL DAS, Hyderabad. |
| 4. | Workshop on Yoga | 2015-16 | Dr.Rajeswar Mukhopadhyaya and Nidhish Yadav of Kaivalyadhama Institute of Yoga Mumbai |
| 5. | Special lectures on Gandhian Philosophy | 2015-16 | Dr.Vinod Kool, State University of New York |
| 6. | One day student enrich programme in collaboration with Kanthari Institute Trivandrum | 2015-16 | In this programme students were given deep insight on how to initiate self-employment entrepreneurial initiatives. Here the means of mobilizing resources both human & material were stressed. |

45. List the teaching methods adopted by the faculty for different programmes

- PPTs
- ICT
- Flipped class room

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- Through Periodic Evaluations
- Collecting feed backs
- Conducting Examinations
- Through Field Visits

47. Highlight the participation of students and faculty in extension activities

- Field study in reputed NGOs
- Organizing Rural Camps
- Conducting field work programme

48. Give details of “beyond syllabus scholarly activities” of the department

Training in participatory development activities, developing skills in essay writing, public speaking and soft skills

49. State whether the programme/department is accredited/graded by other agencies
No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or Applied

This is ensured through Research Programmes and Extension activities. The research publications of the school are ample testimony to the new knowledge generation.

51. Details five major Strengths, Weaknesses, Opportunities and Challenge (SWOC) of the Department

Strengths

- Good infrastructural facilities.
- Fabulous support of the scholarly community.
- Inter disciplinary research facilities.
- Good support from the Alumni.
- Co-operation and support of the leading NGOs & General Public.



Weaknesses

- Inadequate faculty members.
- Lack of collaboration with corporate entities.
- Lack of enough administrative staff.
- Absence of sufficient number of smart class rooms, Lab facilities etc
- Lack of a vehicle for the transportation of students for field placements.

Opportunities

- Possible tie up with foreign universities.
- Possibilities for undertaking worthy human resource development (HRD) projects.
- Immense scope for extension activities.
- Possibility for attracting scholars from abroad.
- Starting of massive online course on Gandhian Philosophy

Challenges

- The existing PG programme , M.A Development studies is not a UGC recognized programme.
- No special reservation for M.A Gandhian Studies students in state public service examinations.
- Delay in filling up non-teaching staff positions.
- Lack of student diversity.
- Lack of awareness among stakeholders regarding the significance of academic programmes in Gandhian Studies.

52. Future plans of the department

- To develop the School as a major centre of excellence in Gandhian and Peace studies.
- To initiate active international co-operation with universities, NGO's, research institutes etc. involved in Peace studies.
- To establish a Mahatma Gandhi Museum to highlight the importance of Gandhian values.
- To undertake a Massive Open Online Course (MOOC) on Gandhian Philosophy.
- To revitalize the existing M.A. Development Studies programme by incorporating more Job- Oriented subjects.

SCHOOL OF INDIAN LEGAL THOUGHT

| | | | | | | |
|-----|---|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | School of Indian Legal Thought | | | |
| 2. | Year of establishment | : | 1989 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Law | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <ul style="list-style-type: none"> • LL.B-3year • BBA, LLB -5 year • LL.M • Ph.D. | | | |
| 5. | Interdisciplinary programmes and departments involved | | 5 year BBA LL.B programme is interdisciplinary in nature, this course offers two degree LLB (Law) and BBA(Management). The students can pursue higher studies in law and management. | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | BA LL.B programme was discontinued and BBA LLB was started as per the stipulations of Bar Council of India. | | | |
| 8. | Examination System | | LLB-Semester LLM- Semester, choice based credit system | | | |
| 9. | Participation of the department in the courses offered by other departments | | None | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 1 | Nil | Nil |
| | | | Associate Professors | Nil | Nil | 1 |
| | | | Asst. Professors | 7 | 5 | 5 |
| | | | Others | Nil | Nil | Nil |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Year of experience | No. of Ph.D. students guided for the last 6 years |
|---------------------|----------------|---------------------|---|---------------------------|---|
| Dr. K Vikraman Nair | LL.M Ph.D | Professor | Constitutional Law | 30 | 3 |
| Dr. George Joseph | LL.M Ph.D | Professor | Constitutional Law | 26 | 5 |
| Dr M.C Pramodan | LL.M Ph.D | Associate Professor | Contract law & Administrative law | 23 | 1 |
| Dr. Sheeba Pillai | BA, LL.M, Ph.D | Assistant Professor | Constitutional Law | 16 | 2 |
| Dr. Rajeeesh.A.P | BSc.LL.M, Ph.D | Assistant Professor | Constitutional Law and Administrative law | 16 | Nil |
| Dr. Gigi P.V | LL.M, Ph.D | Assistant Professor | Constitutional Law & Administrative Law | 16 | Nil |
| Sunil Kumar Cyriac | LL.M | Assistant Professor | Law of Crimes and Torts | 16 | Nil |
| Jasmine Alex | LL.M, Ph.D | Assistant Professor | Law of crimes and Constitutional Law | 11 | 1 |

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:
Senior Visiting Fellows**

| Name | Qualification | Specialization |
|------|---|--------------------|
| 1. | Dr.V.D Sebastian (Former Director, School of Indian Legal Thought and Adjunct professor, KIITs, Bhubanshwar | Constitutional Law |
| 2. | Prof.Vikraman Nair, Former Director, School of Indian Legal Thought | Constitutional Law |
| 3. | Prof.Markus (Former member, Law Commission of India) | Criminal law |

Guest faculty

| Name | Qualification | Specialization | No. of Year of experience |
|------------------------------|----------------------|-------------------------|----------------------------------|
| 1. Adv K.N Somanathan | LLM | Administrative Law | 26 |
| 2. Adv Balasubramania Pillai | LL.M | Commercial law | 25 |
| 3. Adv . Sunny George | LL.M | IPR | 20 |
| 4. Adv Jissa mol P.R | LL.M | Human Rioghts | 10 |
| 5 Adv.Manju E .George | LL.M | IPR | 10 |
| 6. Adv Cicy Joseph | LL.M | Contract & Human Rights | 10 |
| 7. Adv Dimle Raj | LL.M | IPR | 8 |
| 8. Adv. Ajithakumari | LL.M | Human Rights | 8 |
| 9. Dr. K.Sharafudeen | LL.M | Constitutional Law | 8 |
| 10. Adv. Smitha | LL.M | Contract | 5 |
| 11 Adv. Simi John | LL.M | Human Rights | 5 |
| 12. Adv. Bessy Achamma | LL.M | Human Rights | 2 |
| 13. Adv. Baisemol Baby | LL.M | Labour Law | 2 |
| 14. Adv. Laya Bhaskar | LL.M | Administrative Law | 2 |
| 15. Adv. Jayareshmi | LL.M, M. Phil | Human Rights | 8 |
| 16. Nimmi | M.A | English | 2 |
| 17. Hallema .A | M.B.A | Management | 2 |
| 18. Vimal Kumar | M.B.A. | Management | 2 |

13. Percentage of classes taken by temporary faculty – programme-wise information

| | |
|----------|-----------------|
| BBA LL.B | 50 % of classes |
| 3yr LLB | 80% of classes |
| LL.M | 20% of classes |

14. Programme-wise Student Teacher Ratio

| | |
|----------|------|
| BBA LL.B | 9 :1 |
| 3yr LLB | 8:1 |
| LL.M | 3:1 |
| Ph.D. | 2 :1 |



15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Support staffs | Sanctioned | Filled and Actual |
|----------------------|------------|-------------------|
| Technical | 4 | 2 |
| Administrative Staff | 5 | 4 |

16. Research thrust areas as recognized by major funding agencies

- Environmental Law
- Administrative Law
- Constitutional Law
- Criminal Law

17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise : Nil

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration: Nil
- b) International collaboration: Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received : Nil

20. Research facility / centre with

| | |
|-----------------------------|--|
| • State Recognition | Regular Department Of Mahatma Gandhi University |
| • National Recognition | Yes (Recognition by Bar Council of India (Reg. No BLI/LE/SILT/ Kottayam /MGU/ 2002 |
| • International Recognition | Nil |

21. Special research laboratories sponsored by / created by industry or corporate bodies

The School has developed the following bodies for the benefit of students and public.

- Legal aid clinic
- Moot court
- Mock trial
- Legal literacy classes

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 30 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 30 |

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil
- Citation Index – range / average : Nil
- SNIP : Nil
- SJR : Nil
- Impact Factor – range / average : Nil
- h-index : Nil

23. Details of patents and income generated : Nil**24. Areas of consultancy and income generated :**

- Yes, free legal aid service to the public.
- Classes are taken by the faculty in various institutions on various legal aspects without receiving remuneration.

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**National Seminar**

| | |
|------------------|---|
| Dr.Rajeesh A P | 1. Chaired a session at the National Conference on Changing Role of Media in India – Constitutional Perspectives on 20th February 2014. |
| Dr.Sheeba Pillai | 2. Resource person for the third Faculty Development Programme, Academic Staff College, Christ University Bangalore on 9 th November 2012. |



| | |
|-----------------------|---|
| | <ol style="list-style-type: none"> 3. Chaired a session at the National Conference on Changing Role of Media in India – Constitutional Perspectives on 20th February 2014. 4. Lecture presented as a mentor of Walk with the Scholar Programme organised by the Union Christian College Aluva on 19th March 2016. |
| Mr.Sunil Kumar Cyriac | <ol style="list-style-type: none"> 1. 2011 -12 Invited Lecture in the national Seminar organised by P.G. Department of Political Science St. Thomas College Pala on 22nd and 32 March 2012. 2. 2015 -2016, chaired a session in the national Seminar on Waste management organised By Govt Law College Ernakulam during 16th – 18th March 2016 |
| Dr.Jasmine Alex | <ol style="list-style-type: none"> 1. Invited Lecture in legal awareness programme for Higher secondary School students of C.M.S. College kotayam on 29/10/2015 2. Delivered an invited Lecure in Constitution awareness programme for the higher secondary students of Vidyadhiraja Vidyabhavan, Kottayam on 26/11/2015. 3. Delivered an invited Lecure in Human Rights awareness programme under the auspices of N.S.S., Mahatma Gandhi University at School of Behavioural Science on 10/12/2015. |

26. Faculty serving in

- a) **National committees - Nil**
- b) **International committees - Nil**
- c) **Editorial Boards- 8**

| | |
|--------------------|---|
| Dr.Sheeba Pillai | <ul style="list-style-type: none"> • Journal of Law and Legal Jurisprudential Studies • Journal of School of Indian Legal Thought |
| Dr Rajeesh A.P. | <ul style="list-style-type: none"> • Journal of Law and Legal Jurisprudential Studies • Journal of School of Indian Legal Thought |
| SuNil Kumar Cyriac | <ul style="list-style-type: none"> • Journal of School of Indian Legal Thought |
| Dr. M.C. Pramodan | <ul style="list-style-type: none"> • Journal of School of Indian Legal Thought |
| Dr. Jasmine Alex | <ul style="list-style-type: none"> • Journal of School of Indian Legal Thought |
| Dr. Gigi.P.V | <ul style="list-style-type: none"> • Journal of School of Indian Legal Thought |

- d) **any other (please specify) : Nil**

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

| | |
|------------------|--|
| 2011-2012 | <ol style="list-style-type: none"> 1. Gigi P.V, Participated in the Inter Disciplinary National Workshop on Women and Law organized by His Highness Maharajas Government Law College, Ernakulam on February 2011 2. Jasmine Alex participated in National Workshop on Forensic Science in Investigation and Trial held at GLC, Ernakulam during 23-25, January, 2012 3. Sri SuNil Kumar Cyriac Attended Inter disciplinary national workshop on forensic science in investigation and trial, conducted by His Highness the Maharaja's Government Law College, Ernakulam, from 23rd to 25th January 2012 |
| 2012-13 | <ol style="list-style-type: none"> 1. Dr George Joseph attended Three Day ICRC South Indian Regional Teacher's Training Programme on International Humanitarian Law organised jointly by the Dept. of Studies in Law, University of Mysore and the International Committee of the Red Cross, Regional Delegation for South Asia New Delhi. 28-30th, May 2012 at Mysore, Karnataka 2. Dr George Joseph attended UGC sponsored Refresher Course in Human Rights conducted by the UGC Academic Staff College, Calicut from 28.09.2012 to 18.10.2012. 3. Sri Rajeesh A.P participated in the 2 day orientation programme for teachers / counsellors on women empowerment organized by Department Student Services at IMA hall, Kottayam on 7th September, 2012 4. Sri Rajeesh A.P participated in the Refresher Course in Human Rights (Interdisciplinary) conducted by UGC – Academic Staff College, University of Calicut, from 28/09/2012 – 18/10/2012 and obtained A grade 5. Sri Sunil Kumar Cyriac attended the UGC sponsored refresher course 28th September-18 October 2012 –University of Calicut obtained 'A' Grade 6. Smt Jasmine Alex attended UGC Sponsored Orientation Programme for Teachers/Counsellors on Women Empowerment organised by Department of Student Services, Mahatma Gandhi University on 7th September 2012 7. Smt Jasmine Alex attended training programme for Law teachers on Curriculum Reforms held by State Higher Education Council and School of Legal Studies, CUSAT during 28th May -1st June 2012 at School of Legal Studies, CUSAT |
| 2013-14 | <ol style="list-style-type: none"> 1. Dr George Joseph participated in the Professional Development Training for Law Teachers on 'Law Teaching and Future of Legal Education', organized by IBA-Chair on Continuing Legal Education, National Law School of India University, Bangalore and Menon Institute of Legal Advocacy Training, Trivandrum at Mar Gregorios College of Law, Trivandrum, from 09-12 October 2013. |



| | |
|------------------|--|
| | <ol style="list-style-type: none"> Dr M.C Pramodan attended National Workshop on Right to Emergency Care, Centre for Health Law and Policy, NUALS, Kochi, August 2014 Dr Rajeesh A.P participated in the 2 day Orientation Programme for teachers / counsellors on 'Women Empowerment' organized by Department Student Services at IMA Hall, Kottayam on 7th September, 2012 Sri Sunil Kumar Cyriac attended two Day National Workshop for Training of Trainers on challenges in law teaching, Research and Administration in government law colleges in Kerala, conducted by His Highness The Maharaja's Government Law College, Ernakulam, from 10th & 11th January 2014. Jasmine Alex attended Orientation Programme on Managing Diversity and Equity in Universities and Colleges organised by the Department of Educational Administration, National University of Educational Planning and Research, New Delhi during 02-06 Dec. 2013 |
| 2014-15 | <ol style="list-style-type: none"> Dr Sheeba Pillai participated in one day training programme on 'Cyber crimes-legal and Forensic Issues' conducted by National Law School of India University, Bengaluru with Mar Gregorios College of law on 1st March, 2015. Jasmine Alex attended a workshop for Law Teachers on Teaching and Research in IPR organized by the Inter University Centre for IPR Studies held at Cochin University of Science and Technology during 5-6 May 2014 |
| 2015-2016 | <ol style="list-style-type: none"> Dr George Joseph participated in the Professional Development Training for Teachers on "Teaching ADR Skills And Ethics For Better Legal Services" Organized by IBA-CLE Chair National Law School of India University, Bangalore and Menon Institute of Legal Advocacy Training, Trivandrum in association with VM Salgaocar College of Law, Panaji, Goa from 2-6 December 2015 Jasmine Alex participated in the Faculty Development Programme held by Mahatma Gandhi University from 30th July 2015 to 12th August 2015 Dr Sheeba Pillai, Dr. Rajeesh A.P., Dr. Gigi P.V., Dr. George Joseph and Sri. SuNil Kumar Cyriac participated in a National Workshop on Cyber Crimes and Cyber Laws conducted by School of Indian Legal Thought on 27th and 28th, February, 2015. Sri Sunil Kumar Cyriac participated in the two week Faculty Development Programme organised by Mahatma Gandhi University from 30th July to 12th August 2015. Dr. Rajeesh. A.P. participated in the two week Faculty Development Programme organised by Mahatma Gandhi University from 30th July to 12th August 2015. |

28. Student projects

| | |
|---|------------------------|
| <ul style="list-style-type: none"> percentage of students who have done in-house projects including inter-departmental projects | 100% of P.G. students. |
| <ul style="list-style-type: none"> percentage of students doing projects in collaboration with other universities industry / institute | None |

29. Awards / recognitions received at the national and international level by**Faculty: International**

| | |
|--|--|
| Dr. George Joseph, Assistant Professor | Prestigious award of Scroll of Honour from the International Council of Jurists London, 2014, taking into account his contributions in International Law, Academic year 2013 -2014 |
|--|--|

National

| | |
|--|---|
| Dr. George Joseph, Assistant Professor | Sevanaratnam Puraskaram, 2011 from Nethaji Smaraka Samathi Trivandrum |
|--|---|

Students: International

| | |
|--|---|
| Anathakrishnan A Kartha BBA. LL.B, student | Best Mooter award in the One week Summer School Programme organised by European College of Law and Common Wealth Legal Education Association at London (2015 -2016) |
|--|---|

National:

| | |
|------------------------------------|---|
| Department students team | Best Team award, in the National Competition on Alternative Dispute Redressal Mechanism held at Govt. Law College Ernakulam. (Academic year 2012 -2013) |
| Department students team | The best script memorandum, in the National Competititon on Alternative Dispute Redressal Mechanism held at Govt. Law College Ernakulam. (Academic year 2012 -2013) |
| Department students team | Runner up in the in NALAM 2015 conducted by NUALS, (Academic year 2015 -2016) |
| Department students team | Winner, in the Ratio Decidendi Judgment Analysis Competition organized by Bharat Matha School of Legal studies rganized in 2015 |
| Gayathri K. | Winner of best article containing anti drug theme instituted by the Excise department, GOK for the year 2016 |
| Department Students Union magazine | Selected for the Best magazine on the theme Anti-Drugs Campaign by the Excise Department, GOK, for the year 2016. |



30. Seminars/Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

| | |
|--------------|--|
| 2011– 2012 | 7 th National Moot Court has been successfully organized. |
| | Conducted National Seminar on Rights of Children during 23 rd – 25 th February 2012. Around 210 participants from all over India participated in the Seminar and around 75 papers were presented and discussed. |
| | Dr. Ambedkar Memorial Lecture has been delivered by Dr. N.S. Gopalakrishnan (Prof. HRD Chair on IPR and Director, Inter University Centre for IPR Studies on 29 th and 30 th March 2012 |
| 2012 - 2013. | 8 th National Moot Court competition has been successfully organized during 14-16 th Feb, 2013 |
| | National seminar on family as an Institution: Modern realities and Trends in law was conducted on 28 th Feb to 2 nd March 2013 |
| | Dr Ambedkar Memorial lecture has been delivered by Dr Chandrashekharan Pillai, former Director, National Judicial Academy on 12 th Sept 2013 |
| 2013 - 2014. | Legal Literacy mission in kudumbasree units |
| | 9 th National Moot Court has been conducted during February 20 th and 22 nd of February 2014. |
| | Dr. Ambedkar Memorial Lecture has been delivered by R. Venkatramani (Senior Advocate of Supreme Court of India & Member of Law Commission of India) on the topic of Constitutional Dharma and Contemporary Challenges, March 2014. |
| 2014 – 2015 | Legal literacy mission in various schools and colleges in Kottayam district |
| | Dr. Ambedkar Memorial Lecture has been delivered by Hon. Dr. Justice B.S. Chauhan (Chairman Cauvery Water Dispute Tribunal and Former Judge of Supreme Court of India) on 29 th February 2015 on the topic of Judicial Activism and Judicial Restraint. |
| | Two Day National Seminar on the topic of Farmers Right in the Liberalised Economy: Perspectives and Trends was conducted during 27 th and 28 th March 2015. |
| 2015 -2016 | Legal literacy mission carried out in various panchayats and schools |
| | Dr Ambedkar Memorial Lecture was delivered by Prof Dr Sivakumar, Prof Indian law Institute, New Delhi on 30 th March, 2016. |
| | Hon'ble Justice V.Eswariah, Chairperson, National Commission for Backward Classes and Former Chief Justice High Court of Andhra Pradesh delivered a lecture on "Free Press and Independent Judiciary" on 18.12.2015 |
| | A National Workshop on Cyber-crimes and Cyber laws was organised by School in association with CMAI Association of India on 27 th and 28 th February 2016 |
| | A National Seminar on Access to health Care in Modern Era :Changing Dimensions, was organised by the School on 13-15 th March, 2016 |

31. Code of ethics for research followed by the departments

The research topic is discussed and approved by the doctoral committee consisting of all the permanent faculty. The researchers are given opportunities to publish articles in their respective research areas in the department journal. Measures are taken to counter plagiarism. Half yearly reports of the research scholars are scrutinised with the help of external experts. Measures are taken to complete the research on time.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | Applications received | Male | Female | Male | Female |
| | BBA. LL.B (Hons) | | | | |
| 2011- 12 | 110 | 11 | 19 | 90% | 95% |
| 2012- 13 | 256 | 11 | 18 | 38% | 62% |
| 2013- 14 | 261 | 14 | 17 | 45% | 55% |
| 2014- 15 | 319 | 5 | 25 | 17% | 83% |
| 2015- 16 | 472 | 13 | 17 | 43% | 57% |
| LL.B 3 year | | | | | |
| 2011- 2012. | 85 | 28 | 4 | 88% | 22% |
| 2012- 2013 | 119 | 37 | 6 | 86% | 24% |
| 2013- 2014. | 180 | 43 | 7 | 84% | 26% |
| 2014- 2015. | 96 | 32 | 7 | 82% | 28% |
| 2015- 2016 | 165 | 35 | 14 | 71% | 29% |
| LL. M Programme | | | | | |
| 2011-2012. | 39 | 4 | 14 | 22% | 88% |
| 2012-2013. | 34 | 5 | 13 | 28% | 72% |
| 2013-2014. | 52 | 2 | 17 | 11% | 89% |
| 2014-2015. | Through CAP cell | 3 | 11 | 21% | 79% |
| 2015-2016. | Through CAP Cell | 2 | 3 | | |



33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| • LL.B-3year | 66 | 30 | 4 | Nil |
| • BBA, LLB -5 year | Nil | 52 | 48 | Nil |
| • LL.M | 50 | 47 | 3 | Nil |
| • Ph.D. | 67 | 33 | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Year | UGC NET | SET/SLET | State PSC | Any others | Total |
|---------|---------|----------|-----------|------------|-------|
| 2010-11 | 1 | | | | |
| 2011-12 | - | | | | |
| 2012-13 | 2 | | | | |
| 2013-14 | 2 | | | | |
| 2014-15 | 4 | | | | |
| 2015-16 | 1 | | | | |
| Total | 10 | | | | |

35. Student progression:

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | 60% |
| PG to M.Phil. | - |
| PG to Ph.D. | 25% |
| Ph.D to Post-Doctoral | Nil |
| Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | 100% |
| Entrepreneurs | |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|----|
| Of the same University | 17 |
| From other universities within the State from | 83 |
| Universities from other States from universities | 0 |
| Outside the country 0% | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 3

Add category wise

| M.Phil. | Name of the Faculty |
|---------|--|
| Ph.D. | Dr Rajeesh A.P, Dr Jasmine Alex, Dr Gigi P.V |

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|--|
| a) Library | Yes, 10518 books |
| b) Internet facilities for staff and students | 23 computer in the computer lab 6 computers for faculty 2 computers in the library 5 for office All computers have internet facilities |
| c) Total number of class rooms | The school has adequate facilities for teaching and learning. All together the school has 17 lecture halls for imparting training to the five year BBA, LLB, LLB 3year course and LLM courses offered by the school. Apart from the above lecture halls we also have a smart class, one seminar hall, Auditorium, computer lab, and a well-furnished moot court hall for effectively imparting legal training. A legal literacy club and legal aid clinic is also functioning in the school. |
| d) Class rooms with ICT facility | 1 |
| e) Students' laboratories | 1 computer lab with 23 computers |
| f) Research laboratories | Nil |



39. List of doctoral, post- doctoral students and Research Associates

a) From the host institution/university : 01

b) From other institutions/universities : 03

Period: 2011-16

| Sl. No: | Name of the doctoral students | Name of the Guide |
|---------|-------------------------------|--------------------------|
| 1. | K.Sudhakaran | Dr. Sukumari Antharjanam |
| 2. | Ahmad Iqbal | Dr.M. George Joseph |
| 3. | Dr Rajeesh A.P | Dr. M.C. Pramodan |
| 4. | SuNil Kumar cyriac | Dr. Sheeba Pillai |
| 5. | Gigi P.V | Dr. K.Vikraman Nair |
| 6. | Jasmine Alex | |
| 7. | E.R Jayaram | |
| 8. | Deepthi U | Dr. Sheeba Pillai |
| 9. | Krihnakumar G | Dr. Sukumari Antharjanam |
| 10. | Sheraffudin | Dr.M. George Joseph |
| 11. | Jaisy T | |
| 12. | Jose A.D | |
| 13. | George Zachariah | Dr. Sukumari Antharjanam |
| 14. | Soman P. Mamkuttathil | |
| 15. | SuNil Gladson | Dr. K.Vikraman Nair |
| 16. | Mercy Thekkekkara | Dr. K. Parameswaran |
| 17. | Kalam Pasha | Dr.M. George Joseph |
| 18. | Anitha L.P. | Dr.M. George Joseph |
| 19. | Juby K Mariam | Dr. Sheeba Pillai |
| 20. | Asok Kumar. A | Dr. Sheeba Pillai |
| 21. | Sumayya. H | Dr.M. George Joseph |
| 22. | B. Ramachandran | |
| 23. | Priyanka Prasad | Dr. Jasmine Alex |
| 24. | Thilakanandan | Dr. K. Parameswaran |
| 25. | Merin Thaliath | Dr. Jasmine Alex |
| 26. | Joseph. K.D | Dr. Jasmine Alex |
| 27. | Neethi Chacko | Dr.M. George Joseph |
| 28. | Nikhilesh. N | Dr. Jasmine Alex |

| Year | Sl. No: | Name |
|----------------|---------|--------------------|
| From 2011-2016 | 1. | K.Sudhakaran |
| | 2. | Ahmad Iqbal |
| | 3. | Dr Rajeesh A.P |
| | 4. | SuNil Kumar Cyriac |
| | 5. | Gigi P.V |
| | 6. | Jasmine Alex |
| | 7. | E.R Jayaram |
| | 8. | Deepthi U |
| | 9. | Krihnakumar G |
| | 10. | Sheraffudin |
| | 11. | Jaisy T |

| | | |
|--|-----|-----------------------|
| | 12. | Jose A.D |
| | 13. | George Zachariah |
| | 14. | Soman P. Mamkuttathil |
| | 15. | SuNil Gladson |
| | 16. | Mercy Thekkekkara |
| | 17. | Kamal Pasha |

40. Number of post graduate students getting financial assistance from the university:

Financial assistance is given in the form of e –grants:

- In the year 2011 – 2012, 8 students were getting financial assistance (4 male and 4 female)
- In the year 2012 – 2013, 8 students were getting financial assistance (3 male and 5 female)
- In the year 2013 – 2014, 6 students were getting financial assistance (1 male and 5 female)
- In the year 2014 – 2015, 3 students were getting financial assistance (male –Nil 3 female)
- In the year 2015 – 2016, 3 students were getting financial assistance (1 male and 2 female)

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

After getting feedback from the Bar, former students, parents and the faculty of the institution the UG programme BBA. LL.B (Hons.) was revised in accordance with Bar Council Norms. The PG (LL.M) programme was revised as per the U.G.C. norms.

42. Does the department obtain feedback from

| | |
|---|---|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Department uses the feedback for improving the content of teaching learning process. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Department collects feedback from students and uses the feedback for improving the curriculum and teaching. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Feedback is collected in the alumni meeting. |



43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|-------------------------|---|
| 1. | Dr. O K Narayanan | Member, Central Income Tax Appellate Tribunal |
| 2. | Abraham P George | Member, Central Income Tax Appellate Tribunal |
| 3. | Dr. Anitha Anoop | General Manager, Securities and Exchange Board of India, Bombay |
| 4. | Prof. Dr. Liza P Lukose | Professor, Indraprastha University, New Delhi |
| 5. | Asha Treasa | Corporate Lawyer, Singapore |
| 6. | Markose Thomas | Inhouse Lawyer, Singapore |
| 7. | Dr. Unni VR | Associate Professor IIT, Kharagpur |
| 8. | Ms. Arathi Ashok | Assistant Professor, Cochin University of Science and Technology |
| 9. | Dr. Anish V Pillai | Assistant Professor, Department of Law, Cochin university of Science and Technology |
| 10. | Reshma Sasidharan | Munsiff /Magistrate, Thiruvananthapuram |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Weekly seminars are part of our curriculum. Special Lectures like Ambedkar Memorial Lecture is conducted in every year. National seminars & National moot courts are conducted in every year.

| |
|--|
| 7 th National Moot Court has been successfully organized. |
| Conducted National Seminar on Rights of Children during 23 rd – 25 th February 2012. Around 210 participants from all over India participated in the Seminar and around 75 papers were presented and discussed. |
| Dr. Ambedkar Memorial Lecture has been delivered by Dr. N.S. Gopalakrishnan (Prof. HRD Chair on IPR and Director, Inter University Centre for IPR Studies on 29 th and 30 th March 2012 |
| 8 th National Moot Court competition has been successfully organized during 14-16 th Feb, 2013 |
| National seminar on family as an Institution: Modern realities and Trends in law was conducted on 28 th Feb to 2 nd march 2013 |
| Dr Ambedkar Memorial lecture has been delivered by Dr Chandrashekharan Pillai, former Director ,National Judicial Academy on 12 th Sept 2013 |
| Legal Literacy mission in kudumbasree units |
| 9 th National Moot Court has been conducted during February 20 th and 22 nd of February 2014. |
| Dr. Ambedkar Memorial Lecture has been delivered by R. Venkatramani (Senior Advocate of Supreme Court of India & Member of Law Commission of India) on the topic of Constitutional Dharma and Contemporary Challenges, march 2014. |
| Legal literacy mission in various schools and colleges in Kottayam district |
| Dr. Ambedkar Memorial Lecture has been delivered by Hon. Dr. Justice B.S. Chauhan (Chairman Cauvery Water Dispute Tribunal and Former Judge of Supreme Court of India) on 29 th February 2015 on the topic of Judicial Activism and Judicial Restraint. |
| Two Day National Seminar on the topic of Farmers Right in the Liberalized Economy: Perspectives and Trends was conducted during 27 th and 28 th March 2015. |

| |
|--|
| Legal literacy mission carried out in various panchayats and schools |
|--|

| |
|--|
| Dr Ambedkar Memorial Lecture was delivered by Prof Dr Sivakumar, Prof Indian law Institute, New Delhi on 30 th March ,2016. |
|--|

| |
|---|
| Hon'ble Justice V.Eswariah, Chairperson, National Commission for Backward Classes and Former Chief Justice High Court of Andhra Pradesh delivered a lecture on "Free Press and Independent Judiciary" on 18.12.2015 |
|---|

| |
|---|
| A National Workshop on Cyber-crimes and Cyber laws was organised by School in association with CMAI Association of India on 27th and 28th February 2016 |
|---|

| |
|---|
| A National Seminar on Access to health Care in Modern Era :Changing Dimensions, was organised by the School on 13-15th March,2016 |
|---|

45. List the teaching methods adopted by the faculty for different programmes.

In addition to the conventional teaching methods, assignment method, case law method, group discussion method are also followed. ICT enabled smart class room is used for teaching based on power point presentation.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

Feedback from our former students and the bar helps us to constantly monitor and upgrade our programme.

47. Highlight the participation of students and faculty in extension activities:

Participated in legal literacy and legal aid camps- More than **100** in number during this period.

48. Give details of "beyond syllabus scholarly activities" of the department : Moot Courts, Mock Trials, Weekly Seminars, activities of legal Aid Clinics

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- New emerging area are identified by the department for project work and seminars presented by the students.
- Students and faculty are encouraged to contribute to the dept journal with emphasis on newer areas of research.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Alumni placed in high offices and serving the society in different capacities.
- 90% of faculty are PhD holders.
- Teacher-Student ratio is high, so that every student gets attention.
- Legal aid and legal literacy.
- Mock Trials and Moot Court Exercises.

Weaknesses

- Lack of hostel facilities.
- Lack of sufficient Faculty.
- Lack of enough international journals.
- Problems due to distance from the main campus.
- Lack of international students.



Opportunities

- Emerging importance of legal education in the backdrop of globalisation.
- Increasing number of law firms.
- Increasing importance of alternate dispute redressal mechanisms.
- Higher placement opportunities with the help of successful alumni.
- Tremendous opportunities for students to get placed in different sectors.

Challenges

- Student unrest and politics.
- Lack of collaboration with foreign universities.
- Lesser focus on research and funded projects as the focus is more on legal education.
- Competition among law schools.
- Lack of national/international networking and student exchanges.

52. Future plans of the department.

- To become a premier institute for legal studies in the region.
- Mandatory Internship programmes of 20 weeks for undergraduate students.
- To ensure university hostel facilities for students.
- The Department proposes to take up major projects
- To build up International Collaborations
- To set up an Alternate Dispute Redressal Centre

SCHOOL OF INTERNATIONAL RELATIONS AND POLITICS

| 1. | Name of the Department | : | School of International Relations and Politics | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|--|--|------------|--------|-----------------------------|-----------|---|---|---|----------------------|---|---|---|------------------|---|---|---|--------|---|---|---|
| 2. | Year of establishment | : | 1983 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Sciences | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | M.A Politics and International Relations M.A Politics and Human Rights M.A Politics (Public Policy and Governance) MPhil Politics and International Relations Ph.D International Relations Ph.D International Relations (Economics) | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Programmes conducted are interdisciplinary in nature. These programmes are connected in one way or the other with almost all of the social sciences. In addition they also borrow from other disciplines. Scholars engaged in research keep themselves abreast of the developments in the other disciplines which have a bearing on their research work. | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Some of the courses offered in the School are in consultation with experts from Jinan University, China. Two institutions, Institute of Political Studies, Rennes, and Institute of Political Studies Bordeaux, France permit students to undergo two semesters of instruction at the School. | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | Semester (Choice Based Credit System) | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered other departments | : | The School offers open courses as part of the Credit and Semester System for students of other Schools. Students from this school also enrol for courses offered by other Schools. | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | <table border="1"> <thead> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual(including CAS & MPS)</th></tr> </thead> <tbody> <tr> <td>Professor</td><td>1</td><td>0</td><td>2</td></tr> <tr> <td>Associate Professors</td><td>0</td><td>0</td><td>0</td></tr> <tr> <td>Asst. Professors</td><td>6</td><td>4</td><td>0</td></tr> <tr> <td>Others</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | 1 | 0 | 2 | Associate Professors | 0 | 0 | 0 | Asst. Professors | 6 | 4 | 0 | Others | - | - | - |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | 1 | 0 | 2 | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | 6 | 4 | 0 | | | | | | | | | | | | | | | | | | | | |
| Others | - | - | - | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. Students guided for the last 6 Years |
|---------------------|----------------------|---------------------|---|-----------------------------------|--|
| Dr. A.M. Thomas | M.A, M Phil Ph.D | Professor | American Studies, International Relations | 32 | M.Phil – 9 M.Phil.on-going-1 Ph.D. awarded- 0 Ph.D. on-going- 7 |
| Dr. K.M. Seethi | M.A, Ph.D | Professor | South Asian Studies, IR Theory | 32 | M.Phil – 5 M.Phil.on-going-2 Ph.D. awarded- 3 Ph.D.on-going-11 |
| Dr. R. Girish Kumar | M.A, Ph.D | Assistant Professor | International Political Economy | 10 | M.Phil – 5 M.Phil.on-going-1 Ph.D. awarded- 4 Ph.D.on-going-6 |
| Dr. C. Vinodan | M.A, Ph.D | Assistant Professor | South Asia, Energy and Security Studies | 10 | M.Phil – 11 M.Phil.on-going-1 Ph.D. awarded- 4 Ph.D.on-going-13 |
| Dr. Bijulal M.V | M.A, MPhil, Ph.D | Assistant Professor | West Asian Studies, Human Rights | 6 | M.Phil – 9 M.Phil.on-going-1 Ph.D. awarded- Ph.D.on-going-4 |
| Lirar Pulikkalakath | M.A, MPhil | Assistant Professor | West Asian Studies, Refugee Studies | 5 | M.Phil – 3 M.Phil.on-going-1 Ph.D. awarded- 0 Ph.D.on-going-0 |

12. List of senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:

| Sl. No. | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|----------------|----------------|---|------------------------------|
| 1. | David G. Baker | Fulbright Senior Specialist, Independent Scholar, North Carolina, USA, 2012 | United States Politics |
| 2. | Steven Hook | Scholar- in- Residence, Professor of Political Science, Kent State University, Ohio, USA. | United States Foreign Policy |

| | | | |
|-----|--------------------|---|-------------------------------------|
| 3. | V. Suryanarayan | Nelson Mandela Chair for Afro- Asian Studies | South and South East Asia, Diaspora |
| 4. | T.V. Paul | Scholar- in- Residence, McGill University, Canada | South Asia/ Foreign Policy |
| 5. | Jane Knight | International Education Specialist, Toronto, Canada. | International Education |
| 6. | Jia Haitao | Director, Centre for Chindian Studies, Jinan University, China. | China |
| 7. | Tim Niblock | Professor, University of Exeter, UK. | West Asia |
| 8. | Tom Travis | Professor, Bucknell University, USA. | United States |
| 9. | Harry Blair | Professor, Yale University, USA. | Indian Studies |
| 10. | Rajiv Bhatia. | Former Ambassador | Indian Foreign Policy |
| 11. | K.P. Fabian | Former Ambassador and KPS Menon Chair | Diplomacy |
| 12. | Rakli Kakabadze, | Professor, Cornell University, USA. | Peace and Human Rights |
| 13. | Walter Russel Mead | Professor, Bard College, USA. | US Foreign Policy |
| 14. | A.K. Ramakrishnan | Professor, Jawaharlal Nehru University, New Delhi | West Asia |
| 15. | Wardlow Friesen | Professor, University of Auckland, New Zealand. | Political Geography |
| 16. | Philippo Osella | University of Sussex | Social Anthropology |
| 17. | Takashi Teramoto | Hiroshima, Japan | Atom bomb survivor |
| 18. | Pierre Fournier | Consul General of France, Pondicherry | Diplomacy |
| 19. | Joe Szabo | United States | Political Cartoonist |
| 20. | Peter N Varghese | High Commissioner of Australia | Diplomacy |
| 21. | Jennifer Macklem | Professor, University of Ottawa, Canada | Socio linguistics |
| 22. | Vinod C Khanna | Former Diplomat | Diplomacy |
| 23. | M.P Joseph | International Labour Organisation, Cambodia | Labour |
| 24. | Daniel Levy | State University of New York | International Relations |
| 25. | Joseph D Frey | NYIT, United States | International Technology |
| 26. | Thomas Abraham | Former Ambassador of India | Diplomacy |



| | | | |
|-----|--------------------|---|-----------------------|
| 27. | D Babu Paul | Former Additional Chief Secretary, Kerala | Public Administration |
| 28. | M Ananda Krishnan | Chairman, IIT, Kanpur | Education |
| 29. | Linda Parker | United States Embassy | Diplomacy |
| 30. | Sheshadri Chari | Politician | Indian Politics |
| 31. | Ranjan Mathai | Foreign Secretary, India | Diplomacy |
| 32. | Girijesh Pant | Jawaharlal Nehru University, New Delhi | West Asian Economics |
| 33. | Adam K Webb | Johns Hopkins University, Nanjing Centre, China | Globalization |
| 34. | Mani Shankar Aiyar | Member of Parliament | Indian Politics |
| 35. | Bharat Bhushan | Journalist | Indian Politics |
| 36. | John Samuel | Adviser, United Nations Development Programme | Globalization |
| 37. | Roop Singh Bareth | Former Vice Chancellor, MDS University, Ajmer | Indian Politics |
| 38. | Jay Wang | High Commission of Singapore | Diplomacy |
| 39. | Pandav Nayak | Former Vice Chancellor, Utkal University | Indian Politics |
| 40. | Achin Vanaik | Political Scientist | Nationalism |
| 41. | Boris Kagarlitski | Political Scientist, Moscow | BRICS |
| 42. | Ravindra K. Jain | Former Professor, JNU, New Delhi | Diaspora |
| 43. | Shobita Jain | Former Prof. , IGNOU, New Delhi | Women's Issues |

13. Percentage of classes taken by temporary faculty – programme-wise information:

| | |
|-------|------|
| MA | 30 % |
| MPhil | Nil |
| Ph.D | Nil |

14. Programme-wise Student Teacher Ratio:

| | |
|-------|------|
| MA | 5:1 |
| MPhil | 1: 1 |
| Ph.D | 7: 1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 1 | 1 |
| Administrative Staff | 4 | 4 |



- Administrative Officer : 1/1
- Administrative Assistant : 1/1
- Typist : 1/1
- Peon : 1/1
- Librarian : 1/1
- Casual labour/ Staff : 2

16. Research thrust areas as recognized by major funding agencies:

- Human Rights
- Public Policy and Governance
- Chinese Studies
- Rural Employment.

17. Number of faculty with ongoing projects from a) National b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) National

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|-------|--|---------|---------------------------------------|-------------------------|
| 1. | WTO, TRIPS and South Asia | 2014-17 | UGC | 8.70 |
| 2. | Terrorism and Nuclear deterrence in South Asia: A Study on the Issues and Challenges in India's National Security Strategy | 2010-12 | ICSSR | 3.93 |
| 3. | Major Research Project on "Statelessness, Citizenship and Human Security: A Study on the Repatriated Tamils in Kerala" | 2011-13 | ICSSR | 5.26 |
| 4. | Promoting India Study Programme in Mahatma Gandhi University | 2014-15 | Kerala State Higher Education Council | 9.78 |

b) International funding: Nil

c) Total grants received: ` 27.67 Lakhs



**18. Inter-institutional collaborative projects and associated grants received
(2010-2016)**

a) National collaboration

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|-------|---|---------|---|-------------------------|
| 1. | Paddy Culture in Kuttanad, Kerala: Folk Traditions, Rituals and Festivals | 2012-14 | Indira Gandhi International Centre for the Arts | 4.30 |
| 2. | MGNREGS Assessment Evaluation Study- Ernakulam District. | 2013-15 | State Institute of Rural Development | 5.40 |
| 3. | MGNREGS Assessment Evaluation Study- Pathanamthitta District. | 2013-15 | State Institute of Rural Development | 5.40 |
| 4. | MGNREGS Assessment Evaluation Study- Kollam District. | 2013-15 | State Institute of Rural Development | 5.40 |

b) International collaboration : Nil

Total grants received: ₹ 20.5 lakhs

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.;
total grants received.
(2010-16 funds received)**

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|-------|-----------------------------------|---------|------------------|-------------------------|
| 1. | (MA Public Policy and Governance) | 2010-15 | UGC | 21.00 |

20. Research facility / centre with

- State recognition :Yes
- National recognition :Yes
- Inter National recognition :Yes

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 41 |
| 2. | Monographs | 3 |
| 3. | Conference Proceedings | 3 |
| 4. | Chapters in Books | 20 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 6 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 38 |
| | Total | 112 |

- a) Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 18
- b) Citation Index – range / average : NA
- c) SNIP : NA
- d) SJR :
- e) Impact Factor – range / average : NA
- f) h-index : NA

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated:

| SL. No | Description | Income generated (₹ in Lakhs) |
|--------|---|----------------------------------|
| 1. | Consultancy Projects in collaboration with State Institute for Rural Development, Government of Kerala, Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) | 16.20 |



25. Faculty selected nationally / internationally to visit other laboratories / institutions Industries in India and abroad

a) National : 53

| Name of the faculty | Name of the university/industry | Date | Purpose |
|----------------------------|---|----------------------|------------------------------------|
| A.M. Thomas | United States Embassy, New Delhi, and Osmania University Centre for International Programmes, Hyderabad | 29-30 March 2010 | Participation |
| | Alphonsa College, Pala | 1-2 February 2011 | Participation |
| | United States-India Educational Foundation, Chennai | 22-23 February 2011. | Participation |
| | United States-India Educational Foundation, St Thomas College, Pala. | 27-28 July 2011 | Presided over Inaugural Session |
| | K.R.Narayanan Study Centre, St Stephen's College, Uzhavoor | 15-16 December 2011. | Paper presentation |
| | Observer Research Foundation, The Stimson Center and United States Consulate, Chennai, Kochi | 12 June 2014. | Participation |
| | Mar Thoma College | 21-22 January 2016. | Paper presentation |
| K M Seethi | University of Kerala | 2010-17 | External examiner for Ph.D |
| | University of Calicut | 2016 | Paper presentation |
| | HCU | 2010-17 | Resource person. External examiner |
| | Jamia Milia Islamia | 2010-17 | External examiner for Ph.D |
| | JNU, New Delhi | 2010-17 | External examiner for Ph.D |
| | Manipal University | February 2017 | Paper presentation |
| | S.N. College, Kollam | January 2017 | Keynote address |



| | | | |
|----------------|--|---------------------------------|---|
| Girish Kumar R | Payannur College | 1 st February, 2014 | Valedictory Address |
| | Pondicherry University | 14.02.2013 | Paper presentation |
| | Pathanamthitta | September 19 th 2012 | Workshop |
| | UNESCO Chair for Peace and Intercultural Understanding, Malaviya Centre for Peace Research, Banaras Hindu University & Public Affairs Section, U.S. Embassy, New Delhi at Benares Hindu University | September 20-21, 2012 | All-India American Studies Workshop |
| | IMG, Thiruvananthapuram. | 2012 | Paper presentation |
| C. Vinodan | 2 nd International Conference , SDMIND Instituee for Management and Development, Mysore during 18-19 November, 2016. | 18-19 November, 2016. | Paper presentation |
| | Political Science and Publication Wing, Annamalai University | 29-30 March, 2016. | Paper presentation |
| | Department of Law, Central University of Kerala | March 17, 2016 | Paper presentation |
| | Post- Graduate and Research Department of Political Science, Sree Narayana College, Kollam | 30-31 January 2015. | Paper presentation |
| | UGC Centre for South East Asian& Pacific Studies, Sri Venkateswara University, Tirupati | 30-31 January 2015. | Paper presentation |
| | Dept. of International Relations, Central University of Kerala | 20-22,2013 | Paper presentation |
| | (UMISARC) Pondicherry University | February 14-16, 2013 | Participation in international Conference |
| | Department of Defense and Strategic Studies, Punjab University | March 4-6, 2011. | Paper presentation |
| | Department of International Relations, Central University of Kerala, Kasargode | March 2014. | To deliver invited lectures |
| Bijulal M.V | CDS, Thiruvananthapuram | 2011 | Paper presentation |
| | IGNOU, New Delhi | 2011 | Paper presentation |
| | Pondicherry University | 2011 | Paper presentation |



| | | | |
|---------------------|--------------------------------------|--|---|
| | State Institute of Rural Development | 2014-15 | Paper presentations |
| | University of Calicut | 2017 | Lecture |
| | Malabar College, Vengara | 2017 | Invited lecture |
| | University of Calicut | 2017 | Lecture |
| | IGNSA, New Delhi | 2017 | Paper presentation |
| | CDS, Thiruvananthapuram | 2013-15 | Paper presentation |
| | NSS College, Nattika | 2015 | Paper presentation |
| | Manjoor Panchayat | 2011-2017 | Resource person |
| | SD College, Kanjirappaly | 2016 | Keynote speaker in a national seminar |
| | University of Kerala | 2013-16 | Paper presentation |
| | | | |
| Lirar Pulikkalakath | JNU New Delhi | 16-18 March, 2017 November 2014 October 2012 January 2012 | Paper Presentation |
| | IGNOU New Delhi | 22-23 March, 2017 | Paper Presentation |
| | University of Calicut | June 2015 | Orientation Programme |
| | Loyola College | October 2016 | Training Programme |
| | SN College, Kollam | January 2017 | Seminar Participation |
| | Unity Women's College, Manjeri | January 2017 February 2016 December 2015 February 2015 December 2014 October 2014 | Chair/ Paper Presentation/ Resource person/ Invited Lecture |

| | | | |
|--|--------------------------------|--------------------------------|-----------------------|
| | | December 2013 December 2012 | |
| | Lion's Club, Kottayam | August 2016 | Resource person |
| | Cooperative College, Kondotty | 2014 | Keynote address |
| | E.M.E.A College, Kondotty | February 2016 | Paper Presentation |
| | MES College, Kodungalloor | January 2015 | Paper Presentation |
| | Kerala University | October 2013 November 2016 | Paper Presentation |
| | Alphonsa College, Pala | February 2014 | Seminar Participation |
| | Government College, Malappuram | May 2012 | Paper Presentation |
| | Darul Huda Islamic University | May 2012 | Paper Presentation |

b) International : 12

| Name of the faculty | Name of the university/industry | Date | Purpose |
|----------------------------|--|--------------------|--------------------|
| K.M. Seethi | International Studies Association (ISA) annual convention at Louisiana, new Orleans, USA | 8-21 February 2015 | Paper presentation |
| | University of Cambridge, Cambridge | 2-5 July 2013 | Paper presentation |
| | Asia Research Institute, National University of Singapore, Singapore | 22 October 2012 | Consultation |
| | University of Malaya, Malaysia | 21 October 2012 | Consultation |
| | University of Exeter, Exeter, UK | 16-20 July 2012 | Paper presentation |
| | University of Cambridge, Cambridge | 11-14 July 2012 | Paper presentation |



| | | | |
|-----------------|---|------------------------------|---|
| | Jinan National University, China | October 2011 | Paper presentation |
| | The Catholic University of Korea, Seoul, South Korea | November 2011 | Paper presentation |
| Girish Kumar R. | Millennium Conference, London School of Economics and Politics | 2010 | Paper presentation |
| | Robert Schuman Centre for Advanced Studies, EUI, Florence | 28 th April, 2010 | Paper presentation |
| | Swansea University, UK | 14 June 2013 | Invited Talks |
| C. Vinodan | Institute of Advanced International Studies, Sun Yat-sen University, Guangzhou, China | 17-19 June ,2016 | Participated in the 2016 Sino-Indian Cross Cultural Dialogues |

26. Faculty serving in

a) National committees : 49

| Sl.No | Name of Faculty | Details |
|-------|-----------------|---|
| 1 | AM Thomas | Professor in Charge of University Library, April to December 2012 |
| | | President, Mahatma Gandhi University Teacher Association. |
| | | Member, Board of Studies, International Relations and Politics. |
| | | Fulbright Campus Representative |
| | | Member, Academic Council, Mahatma Gandhi University |
| | | Member, Anti-Harassment Cell, Mahatma Gandhi University. |
| | | Professor in Charge of University Library, April to December 2012 |
| | | President, Mahatma Gandhi University Teachers Association. |
| 2 | K M Seethi | Member, IQAC, Mahatma Gandhi University (2005-10) |
| | | Coordinator (2009-), K.P.S. Menon Chair for Diplomatic Studies, Mahatma Gandhi University |
| | | Member, Syndicate, Mahatma Gandhi University (2010-12) |
| | | Asian Political and International Studies Association |
| | | Indian Academy of Social Sciences |
| | | International Studies Association (ISA), USA |
| | | All Kerala Political Science Association |
| 3 | Girish Kumar R | Member, Steering Committee for conducting Students' Council Elections, Central University of Kerala, 2012 |



| | |
|--|---|
| | Member, Board of Studies in International Relations and Politics, Mahatma Gandhi University |
| | Member, Committee on framing Students' Council Elections, Central University of Kerala, 2012 |
| | Member, Committee on Framing the Act and Statute, Kerala Institute of Local Administration (KILA), Trissur, Kerala |
| | Member, Academic Council, Central University of Kerala |
| | Member, Committee on Framing the Act and Statute, Kerala Institute of Local Administration (KILA), Trissur, Kerala. Initiated on 26 September 2012. |
| | UGC Member, Governing Board, Midnapore College, West Bengal |
| | Convener, Syndicate Sub-committee on Academics and Research |
| | Member, Board of Studies, Central University of Gujarat |
| | UGC Member, Governing Board, Midnapore College, West Bengal |
| | Convener, Rules for framing Instituting of Ayyankali Chair, Central University of Kerala |
| | Member, School Board, School of International Studies, Central University of Gujarat |
| | Nodal Officer (International Students), Central University of Kerala. |
| | Convener, Rules for framing Instituting of Ayyankali Chair, Central University of Kerala |
| | Member, Syndicate, University of Kerala |
| | Member, International Relations Group, Govt. of Kerala. |
| | International Relations Association, Mahatma Gandhi University. |
| | Associate, Human Security Institute(Canada) |
| | Associate member, Institute of Defense Studies and Analysis(New Delhi) |
| | Member, IQAC, Mahatma Gandhi University |
| | Member, Rajiv Gandhi Chair for Public Policy Studies, Mahatma Gandhi University |
| | Member, Board of Studies in International Relations and Politics, Mahatma Gandhi University |
| | Board of Studies in Political Science, Kannur University |
| | Member, Board of Studies in Political Science, Kerala University |
| | Board of Studies in Political Science, Maharajas College (Autonomous College), Ernakulum |
| | Joint Director, University Centre for International Cooperation(UCIC), Mahatma Gandhi University |
| | Life Member, All India Political Science Association |
| | Life Member, Indian Association for Canadian Studies |



| | |
|--|--|
| | Alumni, Regional Centre for Strategic Studies(Sri Lanka) |
| | Member, Board of Studies in Political Science, Kerala University |
| | Board of Studies in Political Science, Maharajas College (Autonomous College), Ernakulum |
| | Joint Director, University Centre for International Cooperation(UCIC), Mahatma Gandhi University |
| | Member, Board of Studies in International Relations and Politics, Mahatma Gandhi University |
| | Member, Board of studies, CMS College, Political Science, Kottayam |
| | Member, Board of Studies in International Relations and Politics, Mahatma Gandhi University |

b) International committees : Nil

c) Editorial Boards : 19

| Sl.No | Name of Faculty | Details |
|-------|---------------------|---|
| 1. | K M Seethi | <ul style="list-style-type: none"> South Asian Journal of Diplomacy Indian Journal of Politics and International Relations Journal of Political Economy and Fiscal Federalism |
| 2. | A.M. Thomas | <ul style="list-style-type: none"> South Asian Journal of Diplomacy Indian Journal of Politics and International Relations |
| 3. | C. Vinodan | <ul style="list-style-type: none"> South Asian Journal of Diplomacy Indian Journal of Politics and International Relations Journal of Human Security(Canada) South East Asian Journal of Social and Political Issues (Indonesia) |
| 4. | Girishkumar R | <ul style="list-style-type: none"> South Asian Journal of Diplomacy Indian Journal of Politics and International Relations Annual Report 2012-13, Central University of Kerala Prospectus 2013-14, Central University of Kerala, Kasargod. <i>News Letter</i>, Central University of Kerala. |
| 5. | M.V. Bijulal | <ul style="list-style-type: none"> South Asian Journal of Diplomacy Indian Journal of Politics and International Relations Dynamic Action (Magazine) |
| 6. | Lirar Pulikkalakath | <ul style="list-style-type: none"> South Asian Journal of Diplomacy Indian Journal of Politics and International Relations |

d) any other (please specify reviewer, examiner, role as examiner, etc.) : 34

| Sl.No | Name of Faculty | Details |
|-------|---------------------|---|
| 1 | A M Thomas | External Examiner, University of Kerala |
| | | External Examiner, Central University of Kerala |
| | | Examiner, Union Public Service Commission. |
| | | Reviewer, Rational Discourse |
| 2 | K M Seethi | External Examiner, Central University of Gujarat |
| | | External Examiner, University of Kerala |
| | | External Examiner, University of Hyderabad |
| | | External Examiner, University of Calicut |
| | | External Examiner, JNU, New Delhi |
| | | External Examiner, Jamia Milia Islamia, New Delhi |
| | | External Examiner, University of Delhi, Delhi |
| | | Reviewer of Millennium Journal of International Studies (London School of Economics and PS) |
| | | External Referee of the Regional Centre for Strategic Studies, Colombo |
| 3 | Girish Kumar R | External examiner, central University of Kerala |
| | | External examiner, University of Kerala |
| | | External examiner, Pondicherry University |
| 4 | C Vinodan | External Examiner, Jawaharlal Nehru University (JNU), New Delhi |
| | | External Examiner, Central University of Pondicherry |
| | | External Examiner, University of Kerala |
| | | External Examiner, University of Kannur |
| | | External Examiner, University of Calicut |
| | | External Examiner, Central University of Hyderabad |
| | | External Examiner, Central University of Kerala |
| | | External Examiner, University of Madras, Chennai |
| | | International Reviewer, International Journal of Public Policy (UK) |
| | | International Reviewer, President, Journal of Challenges in Sustainability (Switzerland) |
| | | International Reviewer, International Journal of Public Policy (UK) |
| | | International Reviewer, President, Journal of Challenges in Sustainability (Switzerland) |
| 5 | M V Bijulal | External Examiner, MPhil, University of Gujarat |
| | | Question paper Setter, Political Science, University of Kerala |
| | | Question paper setter, State Eligibility Test (SET), Political Science |
| 6 | Lirar Pulikkalakath | External Examiner, MPhil, JNU, New Delhi |
| | | Question paper Setter, West Asian Studies, University of Calicut |
| | | External Examiner, MPhil, JNU, New Delhi |



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- Orientation Programme : 2

| Sl.No | Name of Faculty | Details of programme |
|-------|---------------------|---|
| 1. | Lirar Pulikkalakath | 90 th Orientation Programme, University of Calicut in 2014 |
| 2. | Bijulal M.V | Orientation programme |

- Refresher : 2

| Sl.No | Name of Faculty | Details of programme |
|-------|-----------------|----------------------|
| | Girish Kumar R. | ▪ Refresher course |
| | Bijulal M V | ▪ Refresher course |

- Staff training : 5

| Sl.No | Name of Faculty | Details of programme |
|-------|---------------------|---|
| 1. | Girish Kuamr R | Refresher |
| 2. | M V Bijulal | ▪ Orientation ▪ Refresher |
| 3. | Lirar Pulikkalakath | ▪ Orientation, University of Calicut (2014) |

- Staff training by other institutions : 1

| Sl.No | Name of Faculty | Details of programme |
|-------|---------------------|--|
| | Lirar Pulikkalakath | Fostering Linkages in Academic Innovation and Research (FLAIR) Training, Thiruvananthapuram (2016) |

- HRD Programmes : 0

- FIP : Nil

- Workshops : 4

| Sl.No | Name of Faculty | Details of programme |
|-------|---------------------|--|
| | A M Thomas | <ul style="list-style-type: none"> • United States-India Educational Foundation, “Workshop on Building Partnerships,” Chennai, 22-23 February 2011 |
| | Girish Kumar | <ul style="list-style-type: none"> • Workshop on ‘Biodiversity Conservation of River Pampa’ at Pathanamthitta on September 19th 2012 • All-India American Studies Workshop, September 20-21, 2012, UNESCO Chair for Peace and Intercultural Understanding, Malaviya Centre for Peace Research, Banaras Hindu University & Public Affairs Section, U.S. Embassy, New Delhi at Benares Hindu University |
| | Lirar Pulikkalakath | <ul style="list-style-type: none"> ▪ Workshop on NAAC accreditation process by IQAC, MGU (2016) |



28. Student projects

| | |
|---|-------|
| Percentage of students who have done in-house projects including inter-departmental projects | 100 % |
| Percentage of students doing projects in collaboration with other universities / industry / institute | Nil |

29. Awards / recognitions received at the national and international level by

a) Faculty : 42 Awards/ recognitions

| Name of the faculty | Details |
|---------------------|---|
| A M Thomas | Dean, Faculty of Social Sciences, Mahatma Gandhi University |
| | Chairman, Centre for Indian Diaspora Studies |
| | Member, South India American Studies Network |
| | Director, School of International Relations and Politics |
| K M Seethi | Director (2013-2016) School of International Relations and Politics Mahatma Gandhi University, Kottayam-Kerala, India |
| | Chairman (2010-14, 2014-17) Board of Studies in Political Science, Mahatma Gandhi University |
| | Chairman (2014-17) Board of Studies, School of International Relations and Politics Mahatma Gandhi University |
| | Chairman (2009-) Centre for Cross-National Communication in South Asia (CCCSA) School of International Relations and Politics Mahatma Gandhi University |
| | Director of Research (2010-12) Mahatma Gandhi University |
| | Honorary Director (2012-) KN Raj Centre for Planning and Centre-State Financial Relations Mahatma Gandhi University |
| | Dean (2010-13) Faculty of Social Sciences Mahatma Gandhi University |
| | Resource person, Academic Staff College, University of Kerala |
| | Resource person, Academic Staff College, University of Calicut |
| | Resource person, University of Delhi, New Delhi |
| | Resource person, Jamila Millia Islamia, |
| | Resource person, Sikkim Central University, Sikkim. |



| | |
|--------------------|---|
| Girish Kumar R. | Dean, School of Humanities and Social Sciences, Central University of Kerala |
| | Dean, Centre for International Co-operation, Central University of Kerala |
| | Chair Professor, Centre for WTO Studies, Central University of Kerala |
| | Head, Department of International Relations, Central University of Kerala |
| | Framed Rules and Regulations for Admission of foreign students and Student/Faculty exchange programme on October 17 th and November 10 th 2012. The rule framing Committee included Prof. Jacob Chacko (Dean), Prof. GM Nair (Dean) and Mr. Krishnamurthy (ICCR). |
| | Chairman, Board of Studies, Central University of Kerala |
| | Head of the Department, Department of International Relations, Central University of Kerala |
| | Chairman, Centre for Trade, Development and Governance (C-TDG), School of International Relations and Politics, Mahatma Gandhi University, Kottayam |
| | Media Relations Officer, Central University of Kerala |
| | Jean Monnet Fellow, Robert Schuman Centre, <i>European University Institute</i> , Florence, Italy. |
| | <i>ICSSR Fellow, Indian Law Institute</i> , New Delhi, |
| | <i>Cambridge-Pavate Fellow</i> , 2007, Sydney Sussex College, <i>University of Cambridge</i> |
| | Chairman, Centre for Trade, Development and Governance, School of International Relations and Politics, <i>Mahatma Gandhi University</i> , Kottayam, Kerala 2009-12 |
| | <i>Fulbright Fellow</i> , 2000, at George Washington University Law School, Washington DC, USA |
| C. Vinodan | Coordinator, Rajiv Gandhi Chair for Public Policy Studies |
| Bijulal M.V | Judge, District youth festival, Alappuzha (2016) |
| | Kerala Coordinator, Campaign for Electoral Reform (CERE) |
| | Chairman , Centre for West Asian Studies, School of International Relations and Politics |
| | Question paper Setter, West Asian Studies, University of Calicut |
| Lirar Pulikkalakth | Judge, inter collegiate debate competition on demonetization, BCM College, Kottayam (2017) |
| | Coordinator, CH Mohammed Koya Chair, Mahatma Gandhi University |
| | Coordinator, Tourism Club, Unity Women's College, Manjeri (2013-14) |



| | |
|--|--|
| | Coordinator, IQAC, School of International Relations and Politics |
| | Resource person, NSS Unit, UWC, Manjeri |
| | Treasurer, Alumni Association of JNU, Kerala Chapter |
| | Resource person, Lion's Club, Kottayam |
| | Internship, Fostering Linkages in Academic Innovation and Research (FLAIR) Training, Department of Higher Education, Government of Kerala. |

b) Doctoral / post-doctoral fellow Postdoctoral fellows: 1 post-doctoral fellow

| Name of the Doctoral / post-doctoral fellows | Details/ Topic |
|---|--|
| Anju Lis Kurian | Climate Change And Environmental Governance: A Study On The Livelihood, Issues In Western Ghats Region Of Kerala |

c) Students : 2 Awards

| Name of the student | Details |
|----------------------------|--|
| Anju Lis Kurian | Young Political Scientist Award, |
| Geethika G | Commonwealth Fellowship, University of Manchester, |

30. Seminars/ Conferences/Workshops/ Colloquiums organized and the source of funding (national /International) with details of outstanding participants, if any.

a) National : 6

| S.L. No | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|----------------|--|---|--|
| 1. | South Asian Regional Conference on "Engaging South Asia: Challenges and Opportunities of New Diplomacy on 27-28 March 2014. | KPS Menon Chair for Diplomatic Studies, School of International Relations and Politics UGC | |
| 2. | Symposium on "The Legacy of Nelson Mandela," Nelson Mandela Day 2013, School of International Relations, and Politics, 10 December 2013. | | |
| 3. | The Nelson Mandela Chair organized a National Seminar on "Understanding China: Indian Perspectives" on 27-28 February 2015 | Chennai Centre for China Studies and the Institute for Contemporary Chinese Studies (ICCS), UGC Area Studies Centre at Mahatma Gandhi University. | Sri. Venu Rajamony IFS, senior diplomat in the Ministry of External Affairs, currently Press Secretary to the President of India, delivered the keynote address. |



| | | | |
|----|--|---|--|
| | | | <p>Prof. Srikanth Kondapally (Jawaharlal Nehru University), Prof. Madhu Bhalla (Delhi University), Prof. Jia Haitao (Jinan University, China), Sri. Murali Nair (former Consul of India, China), Sri. Hormis Tharakan (former Chief of RAW)</p> |
| 4. | Colloquium on "Travails of Political Transition in Iraq and Egypt" Friday, 27 June 2014 | Centre For West Asian Studies, School of International Relations and Politics | <p>Prof Ninan Koshy, Dr. A.K. Ramakrishnan, Professor of West Asian Studies, Jawaharlal Nehru University.</p> |
| 5. | Panel discussion on the theme, "Kerala vs Gujarat: Which Model is Right for India" as part of Rajya Sabha TV's regular programme "India Interacts" on 11 September 2013. | | <p>Mr. Mani Shankar Aiyar, former Union Minister and Member of Rajya Sabha, Mr. Sheshadri Chari, BJP National Executive Member and former editor of <i>Organiser</i>, Mr. K.N. Harilal, Associate Fellow, Centre for Development Studies and Mr. John Samuel, Public Policy expert and Bharat Bhushan, Senior Journalist, New Delhi.</p> |



b) International

: 7

| Sl.No | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|-------|---|---|--|
| 1. | The Rise of China: Policy Parameters and prospects”, 1-3 November 2012. | the Institute for Contemporary Chinese Studies, | Hormis Tharakan, Former Chief, RAW V. Suryanarayanan, Nelson Mandela Chair for Afro-Asian Studies. |
| 2. | Arab World: March Towards Democracy” on 4-5 February 2013 The Conference | Ministry of External Affairs, Government of India, the Indian Council of World Affairs, and Kerala State Higher Education Council. | India’s Foreign Secretary Sri. Ranjan Mathai. |
| 3. | The Political Transition in China and the United States: Implications for India on 28 February 2013 | Chennai Centre for China Studies, Institute of Contemporary Chinese Studies | Prof. Jia Haito, Jinan University, China, Prof. Steve Hook, Kent University, USA, Prof. Srikanth Kondappalli, JNU, Sri. Murali Nair, former Indian Consul in China, Sri./ Kim Jingwoog, South Korea, Ambassador K.P. Fabian et al. |
| 4. | "Annual Lecture 2013" on India’s Regional Role with Special Reference to Developments in Afghanistan and the New Leadership in Pakistan and China” on 16 August 2013. | School of International Relations and Politics | Prof. Walter Russell Mead |
| 5. | IR Special Lecture on the theme "Global Growth to 2050: Demographic Trends and World Order" on 5 September 2013. | School of International Relations and Politics. | Prof. Adam Webb, Resident Professor of Political Science, Johns Hopkins University Hopkins Nanjing Centre, China |
| 6. | Symposium on “The Legacy of Nelson Mandela,” Nelson Mandela Day 2013, 10 December 2013. | School of International Relations, and Politics, | Prof. Mathew Palamattom, faculty member in the University of South Africa and former President of All South African Malayalee Association, |



| | | | |
|----|--|--|---|
| 7. | Engaging Diaspora: Challenges and Opportunities” on March 23-24, 2015. | Nelson Mandela Chair for Afro-Asian Studies and the Institute for Contemporary Chinese Studies | Ambassador T.P. Sreenivasan, Vice Chairman, Kerala State Higher Education Council, who was Indian Ambassador in Fiji, Myanmar and Kenya where a substantial number of Indians live. The keynote address was delivered by Shri N Narsimhan, former Secretary to the Government of India. |
|----|--|--|---|

31. Code of ethics for research followed by the departments:

The School has a code of ethics with regard to research. No close relations are encouraged to do research with supervisors. The researchers are advised to do plagiarism checks with regard to dissertations submitted and articles published. With regard to MPhil/ Ph.D dissertations, the School insist that the scholars submit their work to the plagiarism check mechanism installed in the University library and obtain the requisite certificate. Only on receiving this certificate will the school proceed with the formalities of submission.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| MA P& IR | 545 | 49 | 31 | 90% | 96% |
| MA P& HR | | 14 | 9 | 90% | 100% |
| MA P (PPG) | | 13 | 11 | 90% | 100% |
| MPhil | 95 | 28 | 24 | 90% | 90% |
| Ph.D | | 19 | 15 | NA | NA |



| 33. Diversity of students | | | | | |
|--|--|--|---|------------------------------------|--|
| Name of the Programme (refer to question no. 4) | % of students from the Same University | % of students from other Universities within the State | % of students from universities outside the State | % of students from other countries | |
| MA P& IR | 69% | 22% | 2.6% | 5.2% | |
| MA P& HR | 81% | 18% | Nil | Nil | |
| MA P (PPG) | 83% | 12.5% | 4% | Nil | |
| MPhil | 60% | 40% | Nil | Nil | |
| Ph.D | 80% | 14.29% | 5.71% | Nil | |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Sl.No | NET/ JRF Qualified | Civil service | SET | Others PSC |
|-------|--------------------|---------------|-----|------------|
| 1. | 11 | Nil | 3 | Nil |

35. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|--|
| UG to PG | NA |
| PG to M.Phil. | 62.5% |
| PG to Ph.D. | 33.3% |
| Ph.D. to Post-Doctoral | 5% |
| Employed | Academic- 40% Media/ Legal/ Private- 40% Government/ Civil Service/ Diplomacy- 20% |
| Campus selection | Nil |
| Other than campus recruitment | |
| Entrepreneurs | Nil |



36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|----|
| of the same university | 0 |
| from other universities within the State | 60 |
| from universities from other States from | 40 |
| universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

Yes,

| Name of the Faculty | Degree awarded | Details |
|---------------------|----------------|--|
| M V Bijulal | Ph.D | Jamia Milia University, New Delhi (2015) |

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|---|
| a) Library | Available, 7732 books+ back volumes of International Journals |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | 3 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Nil |
| f) Research laboratories | Nil |

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university :

| Sl. No | Name & Address | Topic | Guide | Full Time/ Part Time | Total |
|--------|---|--|--------------------|-------------------------|-------|
| 1 | G.Geethika Narayanamangalam Thadiyoor P.O Pathanamthitta-689547 | IPR's International Conventions and TRIPS: The Indian Experience | Raju K.Thadikkaran | Part Time | 6 |
| 2 | Punnose mathen Muttathukara Puthenchantha P.O Vakathanam Kottayam | Post Mao Reforms in the PRC with Special Reference to the Special Economic Zones (SEZ): The Chinese Experience | Raju K.Thadikkaran | Full Time | |
| 3 | Byju P.Babu | Information and Communication Technology and Social Development in Developing Counties with Special Reference to India (International Relations) | Raju K.Thadikkaran | Full Time | |
| 4 | Vinu.J.George Puthiakulangara Palampra P.O Kanjirappally | Intellectual Property Rights and the New Security Challenges: Indian Experience in the protection of Bio Diversity Related Traditional Knowledge | Raju K.Thadikkaran | Full Time | |
| 5 | Antony P.W Pokkath Pizhala, Ernakulam- 682027 | Internationalisation of Higher Education in India and China with Special Reference to the State of Kerala and Gundong Province | Raju K.Thadikkaran | Full Time | |
| 6 | Siby Thomas St.George Catholic Church Seethathodu Pathanamthitta | Internationalisation of Higher Education: The South Korean Experience | Raju K.Thadikkaran | Full Time | |
| 7 | Remanan R.P "Hrudaya" Thanneermukkom P.O Alappuzha-688527 | Right to Education: Constitutional Status and emerging challenges | K.M.Seethi | Part Time | 11 |



| | | | | |
|----|---|--|------------|--------------|
| 8 | Ampili.T Pakkallithara Thekkethil Thiruvannamthoor P.O Chengannur-689109 | Political Economy of Regionalism The Indian Experience in the Post-Cold War era | K.M.Seethi | Full Time |
| 9 | Sasikumar V.K Vallikattu House Ezhumanthuruthu P.O Muttuchira Kottayam-686613 | State and Ethnicity in /south Asia: A case study of Sinhala Nationalism in Sri lanka | K.M.Seethi | Full Time |
| 10 | Ramakrishnan T.K Sooryakanthi Koottuli P.O Calicut-673016 | Unesco and the global information order: A study on the Politics of Communication and Information | K.M.Seethi | Part Time |
| 11 | Sudheep M.S Maruthapathickal House Kuninji P.O Nellappara Kottayam-686576 | Islam, State and Nation Building: A study on the systematic Crisis in Pakistan | K.M.Seethi | Full Time |
| 12 | Priya M.V Flat No.6 Bharani Apartment I main Road Raja Annamalaipuram Chennai-600028 | Foreign Policy of China in the Post Mao Period: A study on China Asia Pacific Strategy | K.M.Seethi | Part Time |
| 13 | Rigi Idiculla Kallamannil House West Othara P.O Pathanamthitta-689551 | Human Security and Ageing Women in Kerala: A Case Study of Pathanamthitta | K.M.Seethi | Full Time |
| 14 | Aparna.C Vellarayil Kannickal P.O Moolamattom | Democratisation and Governance in Nepal: Persisting Issues and Challenges | K.M.Seethi | Full Time |
| 15 | Muhammed Thalhat M Mandody House Moodathazhikkal Paramba, Feroke P.O Calicut-673631 | Politics of Images in International Relations: A comparative Study of Egyptian Uprising and Israeli-Palestine Conflict | K.M.Seethi | Full Time |
| 16 | Ashok Alex Luke Vettikkattu House Kizhakktheruve P.O Kottarakkara Kollam-691531 | US – China Relations in the Post 9/11 Global Order: A Study with Special Reference to Asia – Pacific Region | K.M.Seethi | Part Time |



| | | | | | |
|----|---|--|----------------|--------------|---|
| 17 | Parvathy Devi K Kannankara House Vadavathoor P.O Kottayam | Foreign Economic Policy Making in India | K.M.Seethi | Full Time | |
| 18 | Anoop.R “Hrudaya” Thanneermukkom P.O Alappuzha-688527 | The Right to Health: Tobaccs Use in India with Special Reference to Kerala | A.M.Thomas | Full Time | 4 |
| 19 | Thomas C.S Chackalayil House Cathedral View Changanerry-686101 | Judicial Supremacy in India: Expanding Powers of the Supreme Court of India | A.M.Thomas | Part Time | |
| 20 | Asha Rani P.L Pazhukkarayil Eramallur P.O Alleppey-686537 | Gender, Conflict and International Relations : A Study with Special Reference to Women in Jammu & Kashmir | A.M.Thomas | Full Time | |
| 21 | Shibu E.V Karakattu Kunnel Vakathanam Kottayam | Media and its National emergency in India: The Issue of Family Planning | A.M.Thomas | Full Time | |
| 22 | Raju John Kunnath Poothrikka Ernakulam-682 308 | Changing Dynamics of Emigration: A study on Kerala | A.M.Thomas | Full Time | |
| 23 | Navas M Khadar Mariyil House, Allapra P.O Perumbavoor Ernakulam – 683 556 | Migrant Labour in the Plywood Industry of Kerala. A Human Rights Perspective | A.M.Thomas | Full Time | |
| 24 | Simi Joseph Carmelaram Convent Arunapuram P.O Pala – 686 574 | Post-Structuralism and International Relations Theory: A Study on Richard Ashley’s Re- Reading of International Relations | A.M.Thomas | Full Time | |
| 25 | Viswam Mathew Chalil House Kadavoor P.O Panamkara Ernakulam-686671 | Univeralisation of Elementary Education: A Case Study with Special Reference to Sarvasiksha Abhiyan Programme in Kerala | Girish Kumar.R | Full Time | |



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|----|--|---|----------------|--------------|---|
| 26 | Sebastian A.Mathew Arattukulangara North of Railwaystation Road Ettumanoor P.O PIN-686631 | General Agreements in Trades in services (GATS) and India: A study on the telecommunication sector | Girishkumar.R | Part Time | 4 |
| 27 | Rajesh M Kalluvettumkuzhi Thazhamel, Anchal P.O Kollam-691306 | India's National Innovation System in the Post Liberalisation Period: A Study with Reference to ICT Diffusion in the Agriculture Sector | GirishKumar.R | Full Time | |
| 28 | Ajay M.G Mathangamakel House Kothanalloor Kottayam-686632 | River Governance and Local Administration: A Case Study of River Pamba | Girish Kumar.R | Full Time | |
| 29 | Dinoop K Kalathumkandi (H) Chenakkalangadi P.O Thenchippalam (via) Malappuram – 673 636 | International Migration | Girish Kumar.R | Full Time | |
| 30 | Syama Muralidharan Murali Sadhanam, Kattoor P.O Pathanamthitta – 689 650 | Mergers and Acquisitions in Indian Pharmaceutical Industry | Girish Kumar.R | Full Time | |
| 31 | Gelina V.P Ponniyam West P.O Thalassery Kannur-670641 | Terrorism and Displacement in Kashmir: A study on the Problems of Rehabilitation of the Kashmir: Pandits | C.Vindoan | Full Time | |
| 32 | Asharaf.P Parappure House Chenoli P.O Perambra Kozhikode | Migration and Social Change: A study on gulf Migration and its impact on the Sociopolitical Life of the Muslims in Kerala | C.vinodan | Full Time | |
| 33 | Jithuraj M.S Madathikudiyil House South Marady P.O Muvatupuzha-686673 | Proliferation of small arms and human security in south Asia: A study with reference to India | C.Vinodan | Part Time | |
| 34 | Leena Merlin Shade State Bak colony Road Pattari P.O Kozhikodu-673016 | United states nuclear strategy in South Asia: A study on U.S. Policy towards India | C.Vinodan | Full Time | |



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|----|---|---|-----------|--------------|----|
| 35 | Shibu M.George Mundaplackamannil House Kunnamthanam P.O Thiruvalla-689581 | Sustainable Development and Energy Security – A Comparative Study of India and China | C.Vinodan | Full Time | |
| 36 | Gigish Kumar V Gigish Bhavan Paliakkara Palace Road Thiruvalla-689101 | Right to Information and Governance at the Local Level: A Study with Special Reference to Kerala | C.Vinodan | Full Time | |
| 37 | Rajesh Kuniyil Koiothkandythazhakani Kozhikode | Nuclear Deterrence ion Trilateral Settings: Strategies of India, Pakistan and China | C.Vinodan | Full Time | |
| 38 | Lakshmi.S Lakshmi vihar Moolavattom P.O Pakkil, Kottayam- 686012 | External Dynamics of Sino-Indian Relations After the Cold War: A Study on the US and Pakistan Factors | C.Vinodan | Full Time | 13 |
| 39 | Sijin C.P Chentrathara Thalayazham P.O Vaikom, Kottayam | Human Security and Democratic Governance in the Post-Taliban Afghanistan: A Study on the Role of the United States | C.Vinodan | Full Time | |
| 40 | Simon V.S Vattapparambil Onakkoor Kakkayam, Ernakulam | State, Governance and Human Security in India: A Study with Special Reference to Maoist Movement in Telangana | C.Vinodan | Full Time | |
| 41 | Sajeevkumar M.V Rajeev Nivas Naduvil P.O Kannur-670582 | Rural Livelihood Security in Kerala: A Study on the Impact of Mahatma Gandhi National Rural Employment Guarantee Scheme | C.Vinodan | Full time | |
| 42 | Vivek C.K Rekha Chittarikovil Kandoth P.O Payyannor, Kannur- 670307 | Disaster Risk Reduction (DRR) in South Asia: A Study on School Based DRR Programme in Afghanistan | C.Vinodan | Full Time | |



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|----|---|--|-------------------|--------------|----|
| 43 | Jyothi Lakshmi M.A Koduvathara House Vadayar P.O Thalayolaparambu Kottayam-686605 | Micro-Finance and Livelihood Security in Kerala | C.Vinodan | Full Time | |
| 44 | Priyesh C.U Choothamparambil House Panambukad Vallarpadom P.O Ernakulam-682504 | Non-Governmental Organisation, social Justice and Destitute Children in Kerala: A study as Janasree Sisubhavan and SOS village | Venugopal B.Menon | Full Time | 10 |
| 45 | Pradeep Joseph Karackavayalil Velathussery P.O Marady, Kottayam- 686580 | The Tamil question in Sri Lanka: A Study on the Reporting of the Ethnic Conflict in the Indian Media | Venugopal.B.Menon | Full Time | |
| 46 | Soumya T.S Kakkanattu House Thalayolaparambu Vaikom, Kottayam- 686605 | Chinas South Asia Policy: A study on Sino-Nepal Relations | Venugopal.B.Menon | Full Time | |
| 47 | Aneesha P.A Padayat Poyil House Peruvannamuzhi, Chempanoda P.O Calicut-673528 | Political Participation of Woman in the Guld – Comparative Study of Kuwait Baharin & Saudi Arabia | Venugopal B.Menon | Full Time | |
| 48 | Sujith Sundaran Choorakuttickal Chenganoor Pathanamthitta-689544 | Identity Assertion in Kerala, A Study on Prathyksha Raksha Daiva Sabha (PRDS) Continuity and Change | Venugopal B.Menon | Full Time | |
| 49 | Blessy Paul.C Cheruvathar House Pazhuvil P.O Thrichur-680564 | India's Energy Security: The Gulf Factor | Venugopal.B.Menon | Full Time | |
| 50 | Stanly T.Chacko Thuruthil House Thalavady P.O Alleppey-689572 | Migration and Human Security in south Asia: A Study on Issues in India – Bangladesh relations | Venugopal B.Menon | Full Time | |
| 51 | Sandhya V.S Veluthapurackal Kodungallur Trichur | Communalism and Changing Political Dynamics: A Study on Kodungallor | Venugopal B.Menon | Full Time | |



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|----|--|---|-----------------------|----------------|---|
| 52 | Saneesh P.T Puthenpurackal Chinnar P.O 4 th Mile, Kaverimala Elappara | Tribal Development Programmes in Keraka: An Impact Assessment Study of the Paniya and Mannan Settlement in Idukki and Malappuram | Venugopal B.Menon | Full Time | |
| 53 | Sheeja Mathai Puthussery House Kidangoor P.O | Development and Displacement in Kerala: A Study on the Displaced People in Nedumbassery | Venugopal B .Menon | Full time | |
| 54 | Biju Joseph PLamthoppil House Nalukody P.O Changanacherry-686548 | Social exclusion and Human Rights: A Case Study of People Living with HIV/AIDS in Kerala | Sreekantan Nair | Full Time | |
| 55 | Reghunath V Sivalayam Perunna P.O Changanacherry-686102 | Political Mobilisation of SC's & ST's in Kerala: A Case Study on Land Rights Movements | Sreekantan Nair | Part Time | 5 |
| 56 | Varghese A.K Adivallil Kurukappilly P.O Kolencherry-682311 | Right to Life and Environmental Issues in Kerala: A Case Study of Periyar River Contamination and its after effects | Sreekantan Nair | Full Time | |
| 57 | Grace Peter CSI Parsonage Alumpedika Ochira, Kollam | The Scottish Question: Critical Issue in Sub- State Nationalism in the United Kingdom | Sreekantan Nair | Full Time | |
| 58 | Ashitha.R Thekkethumpayil Niranam P.O Kadapra Pathanamthitta-689621 | Counter Terrorism Measures in India: Implications for the Civil Liberties Discourse | Sreekantan Nair | Full Time | |
| 59 | Sheeba Abraham Kuthivalachel House Veliyannoor P.O Kottayam-686638 | Changing Land use pattern in Kerala A Study with Special Reference to Pady Fields | V.Mathew Kurian | Part Time * | |
| 60 | Anooja Chacko Chamakalayil House Muthalakodam P.O Thodupuzha | The impact of Deforestation on the Adivasis of Kerala: A Study with Special Reference to "Mannans" in Iddukki District. | V.Mathew Kurian | Full Time * | |



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|----|--|---|-----------------|----------------|---|
| 61 | A.D.Manikandan Alungal House Edassery Beach Talikulam Trichur-680569 | Land Degradation, Ecological Restoration and Tribal Livelihood in Attapady, Kerala | V.Mathew Kurian | Full Time * | 8 |
| 62 | Jaya Sadasivan Mmthundathil Kattachira Kottayam | Labour Dynamics of Inward Migration in The construction Sector in Kerala | V.Mathew Kurian | Full Time * | |
| 63 | Winson Thomas Vallyanal Madappally P.O Kottayam | Economics of Geographical Indications and its implication for Producers: A Study with Reference to Kerala | V.Mathew Kurian | Full Time * | |
| 64 | Anuraj K.R Kallamparambil Moonilavu Kottayam | Food Security in Kerala: A Study on its Evolution and Challenges | V.Mathew Kurian | Full Time * | |
| 65 | Alan Zacharia Thayil House Edamattom P.O Pala, Kottayam | Labour Economics | V.Mathew Kurian | Part Time * | 5 |
| 66 | Linda George Padamattumel Kottayam | Financial Inclusion and Regional rural Banks: A Study with Reference to Kerala Gramin Bank | V.Mathew Kurian | Full Time * | |
| 67 | Arunkumar.A Lekshmi Nivas Kelamangalam P.O Thakazhy-688562 | Water amd Human Rights: A Study on Jalanidhi Project in Kerala | Benny Joseph | Full Time | |
| 68 | Lijoy Thomas Pulickal Kappumthala P.O Kottayam-686613 | Challenges of Social Inclusion in Higher Education: A Study eith Reference to Dalits in Kerala | Benny Joseph | Full Time | |
| 69 | Jipson V.Paul Vadakumcheril Ramamangalam Ernakulam | Educational entitement of Tribals in Kerala: A Comparatie Study of Kurichiyas and Paniyas of Wayanad | Benny Joseph | Full Time | |
| 70 | Rino Mathew Thekkanam Kunnel Punnathara West Kottayam | Civil Rights Movements in Manipur: A Study on Irom Sharmila's Struggle | Benny Joseph | Full Time | |



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|----------------------|--|--|------------------|---------------|---|
| 71 | Sandhya Sebastian Parayil House Edanadu P.O Pala-686574 | Gender, Violence and Human Security: A Case Study of Kerala | Benny Joseph | Full Time | |
| 72 | Dinaraj K C Kolliyil House, Kaipuzha P.O Kottayam Dist – 686 602 | Human Rights and Environment Movement in Kerala: A Study with special reference to Western Ghats | Benny Joseph | Full Time | |
| 73 | Shiraz Shanavas White Cottage (H) I.E.Nagar P.O Madukummoodu Changanacherry 686 106 | Migrant Workers and Human Security – A case study of Kerala | Benny Joseph | Full Time | |
| 74 | Arif P.T Paramthuda Vayal Payyoli Angadi P.O Kozhikode-673523 | Environmental Pollution & The Right to Health: A Study on Nitta Gelatin in Kerala | Bijulal M.V | Full Time | 2 |
| 75 | Kannan M B Madanichire Kapickad Kollam P.O 686 611 | Dalit Consciousness in Kerala: A study on the Kurichy struggle | Bijulal.M.V | Full Time | |
| 76 | Jadeeda K Manappatt Mankavu P.O Calicut – 673 007 | Economic and social status pf return emigrants from the United Arab Emirates (UAE): A Study on Malappuram district in Kerala | Bijulal.M.V | Full Time* | |
| 77 | Renjith K.R Konattu House, Manjoor P.O Kottayam – 686 603 | Constitutional Reform and Religious Politics in Tunasia: A Study on Gender Discourses | Bijulal.M.V | Full Time | |
| 78 | Bibu V.N Maruthamangalathu Illam Mallooserry P.O, Kottayam | New Media and Democracy: A Study of online Media and Indian Public Sphere | A.K.Ramakrishnan | Part Time | 1 |
| | | | | | |
| Post-Doctoral | | | | | |
| 1 | Anju Lis Kurian () | Climate Change And Environmental Governance: A Study On The Livelihood, Issues In Western Ghats Region Of Kerala | C Vinodan | Full time | 1 |

* Economics



**40. Number of post graduate students getting financial assistance from the university:
155**

Period 2010-16

| Fellowship | Number |
|-------------------|---------------|
| E grants | 155 |
| RGNF | |
| Other | |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, before starting the MA Politics (PPG), the School was aware of the demand of including Public Administration and Public Policy courses in the ongoing MA Programmes. This was one area of Political Science which was not represented in the syllabi. Therefore when the UGC advertised for the starting of innovative programmes, the School made the best use of the opportunity and submitted a successful proposal.

42. Does the department obtain feedback from

| | |
|--|--|
| Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes, by discussing the issue at the level of the Faculty Council and the Board of Studies |
| Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | There is student evaluation of teachers which is done regularly. Teachers make use of this feedback to improve their teaching skills and methodology as well as to make changes in the syllabus |
| Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni of the School reflect on the kind of instruction that ease imparted to them and suggest improvements based on the experiences they have received in other educational institutions. These are taken into account while making changes to syllabi and teaching methods |



43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position | Remarks |
|--------|---------------------------|--|---|
| 1. | B.S. Tirumeni IAS | District Collector, Wayanad, Kerala | |
| 2. | Dr. A.K. Ramakrishnan | Professor, School of International Studies, JNU, New Delhi. | |
| 3. | T. Rajah Balaji IPS | Central Bureau of Investigation | |
| 4. | M.H. Ilias Hussein | Professor, Jamia Milia Islamia, New Delhi | |
| 5. | Dr. Happymon Jacob | Associate Professor, JNU, New Delhi | 2 more Associate Professors in JNU & 1 Associate Professor each in Jamia Milia Islamia, New Delhi, University of Baroda & Sikkim Central University |
| 6. | M.S. Sreerekha | Assistant Professor of Women's Studies, University of Virginia, USA | |
| 7. | Dr. Binitha Thampi | Assistant Professor, IIT, Chennai | |
| 8. | Roopa Rachel Kuruvilla | Senior Chief Editor, Khaleej Times, Dubai | |
| 9. | Mathews George Chunakkara | Executive Director, International Affairs, World Council of Churches, Geneva | |
| 10. | Dr. Shahul Hameed | Chief of China Desk, Confederation of Indian Industry (CII) | |
| 11. | Ta Minh Tuan | Direct General and Assistant to the Deputy Prime Minister, Government of Vietnam, Hanoi. | |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

The School along with the formal curricula creates opportunities for students to interact with academics and experts associated with other Universities and Institutions particularly in connection with their visits for seminars, workshops, special lectures, erudite lectures, internships etc.

45. List the teaching methods adopted by the faculty for different programmes:

- Interactive classroom discussions involving free exchange of views are held.
- Power point/ internet facilities are utilised.
- Film/ documentary screening are the regular feature of the syllabi.
- Latest local, national and international issues are discussed at the forums of the School.
- The International Relations Association, Human Rights Association, etc are such forums.



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? :

The best feedback comes from students as well as the external examiners who value the answer scripts and dissertations of the students. Their feedback is taken into account. In addition teachers consult their peers in other universities with regard to the content of the syllabus. Dissertation topics are often chosen by students on the basis of their interests, exposure to topics through special lectures and interaction with external experts. These help in improving the overall content of the programmes.

47. Highlight the participation of students and faculty in extension activities:

The State Institute of Rural Development projects regarding MGNREGS have given a great opportunity for students to engage in extension activities. Those students who participated were fully involved in assessing the efficacy of the program and preparation of the evaluation report. This helps them in sharpening their analytical skills. The faculty of the School regularly offer lectures in neighbouring colleges, institutions of research etc.

48. Give details of “beyond syllabus scholarly activities” of the department:

The seminars, symposia, colloquia, special lectures, film festivals, etc provide ample opportunities for students to think and act beyond what is offered in the class room and in the formal syllabus. The IRA, the HRA etc are some forums where these are realised.

49. State whether the programme/ department is accredited/ graded by other agencies?

If yes, give details:

No formal accreditation by other agencies has been received. However, the School has definitely built a reputation for itself.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The syllabi of the program take into account new developments in the disciplines. These are translated into realities when syllabi are updated and modified. The research topics being selected at the various programs are reflective of the new areas of knowledge.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Eminent alumni holding different offices serving the society.
- Regularly conducting Diplomatic Lecture series inculcating new knowledge.
- Good use of library and other learning resources.
- The School publishes journals of international significance.
- Diversity of the students and faculty and linkages with international institutes.

Weaknesses

- Lesser faculty strength.
- Lack of state of the art classrooms.
- Inadequate administrative support staff.

Opportunities

- Presence of centres within the School which specialise in select areas.
- Support and encouragement of Alumni.
- More student support and placement initiatives.

Challenges

- Lack of financial resources.
- Inadequate living facilities for students and teachers which prevent interaction outside office hours.
- Lack of international students' hostel.

52. Future plans of the department:

In the coming years, the School wishes to strengthen its existing Centres. This will provide greater vibrancy in the School. The School plans to streamline the publications of its existing journals. It also wishes to widen its catchment area of students to include those from outside the state and international students. Infrastructure of the School will have to be improved and the numbers of faculty members have to be increased to make this possible.



SCHOOL OF LETTERS

| 1. | Name of the Department | : | School of Letters | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|---|--|------------|--------|-----------------------------|-----------|---|---|---|----------------------|---|---|---|------------------|---|---|---|--------|---|---|---|
| 2. | Year of establishment | : | 1988 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Language and Literature | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M.Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | 1. M A Malayalam 2. M A English 3. M.Phil Malayalam 4. M.Phil English 5. M.Phil Theatre Arts 6. Ph.D Malayalam, English, Theatre Arts, Comparative Literature, Fine Arts | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | | All programmes are interdisciplinary in nature while our activities are marked by interaction with School of Social Sciences and School of International Relations. Moreover most of the Schools of the University are involved in the Open Course for MA MSc students. | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | Students of the ASPIRE programme from other universities in Kerala undertake their project work under the supervision of School of Letters faculty. | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | Nil | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | | Semester (Choice Based Credit System) | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | | Two Open courses offered by us for students from other departments. | | | | | | | | | | | | | | | | | | | | |
| 10 | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | <table> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual(including CAS & MPS)</th></tr> <tr> <td>Professor</td><td>1</td><td>1</td><td>2</td></tr> <tr> <td>Associate Professors</td><td>2</td><td>1</td><td>1</td></tr> <tr> <td>Asst. Professors</td><td>7</td><td>4</td><td>4</td></tr> <tr> <td>Others</td><td>-</td><td>-</td><td>3</td></tr> </table> | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | 1 | 1 | 2 | Associate Professors | 2 | 1 | 1 | Asst. Professors | 7 | 4 | 4 | Others | - | - | 3 |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | 7 | 4 | 4 | | | | | | | | | | | | | | | | | | | | |
| Others | - | - | 3 | | | | | | | | | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|-------------------------|------------------|---------------------|--|----------------------------|--|
| Prof. V C Harris | MA, M.Phil, Ph.D | Professor | American Poetry, Film Studies, Literary Theory | 31 | M.Phil: 12 Ph.D: 2 |
| Prof. P.S Radhakrishnan | MA, Ph.D | Professor | Literary Criticism, Film Studies | 20 | M.Phil: 12 |
| Dr. K M Krishnan | MA, Ph.D | Associate Professor | American Literature, Fiction Studies | 27 | M.Phil: 12 Ph.D: 2 |
| Dr.Saji Mathew | MA, M.Phil, Ph.D | Asst. Professor | Translation Studies, Indian Writing in English | 13 | M.Phil: 6 |
| Dr. Jose K Manuel | MA, Ph.D | Asst. Professor | Film Studies, Indian Aesthetics | 10 | Ph.D: 3 M.Phil:12 |
| Dr.HarikumarS. | MA, Ph.D | Asst. Professor | Literary Historiography, Poetry | 6 | M.Phil: 10 |
| Dr.Aju K Narayanan | MA, Ph.D | Asst. Professor | Folkloristics Cultural Studies | 9 | Ph d 8 Mphil 3 |

12. List of senior visiting fellows, adjunct faculty, emeritus professors

- Dr.P.P.Raveendran – Emeritus Professor
- Dr.Scaria Zacharia – Visiting Professor

13. Percentage of classes taken by temporary faculty – programme-wise information : 25 %

14. Programme-wise Student Teacher Ratio

- PG Programme : 6:1
- M.Phil Programme : 3:1
- Ph D Course work : 2:1
-

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

- Office staff : 3
- Library staff : 1

16. Research thrust areas as recognized by major funding agencies

Interdisciplinary studies in Literature and Culture

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

a) national

| Sl No. | Name of Professor | Project title | Agency | Amount received in Lakhs (₹) |
|--------|-------------------|--|--------|------------------------------|
| 1 | Dr Harikumar S | Creation of a web portal about Changampuzha Krishna Pillai | UGC | 9.44 |
| 2. | Dr. Jose K Manuel | The politics of power engendered by the new generation media in the language and culture of Kerala | UGC | 7.89 |

b) International: Nil

c) Total grants received: ₹17.33 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration : Nil

b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.
: Nil

20. Research facility / centre with

- State recognition : Yes
- National recognition : Yes
- International recognition : No

21. Special research laboratories sponsored by / created by industry or corporate bodies : NA

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 14 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 3 |
| 4. | Chapters in Books | 25 |
| 5. | Edited Books | 9 |
| 6. | Books authored with ISBN | 18 |
| 7. | Books authored without ISBN | 14 |
| 8. | Articles in popular publications | 82 |
| | Total | 165 |

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in

- a) **National committees –Nil**
- b) **International committees -Nil**
- c) **Editorial Boards**

Editorial Boards:

| Sl. No. | Name of the faculty | Journal |
|---------|-------------------------|--|
| 1. | Dr. K M Krishnan | <ul style="list-style-type: none"> Member, Editorial Board of <i>Dheemahi</i>, Journal of Chinmaya Research Foundation. |
| 2. | Dr. Aju K N | <ul style="list-style-type: none"> Member, Editorial Board of <i>Tapasam</i>, Journal of Association for Comparative Studies Member, Editorial Board of <i>Bhoomi Malayalam</i>, a journal published by UC College, Aluva. |
| 3. | All the regular members | <ul style="list-style-type: none"> Members of Editorial Board of <i>Haritam</i>, Journal of School of Letters |

d) any other- Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):

- a) One day seminar on “Vision and Experience” 29 March 2012.
- b) Workshop on Poetry, drama, and story in September 2012
- c) Seminar on computational practices in association with Akshara, December, 2012.
- d) Translator’s Orientation Programme from 13 to 16 February 2013
- e) National Seminar on Indian Cinema: A Century in Perspective, 21-23 March 2013.
- f) National Seminar on Comparative Literature” in connection with the retirement of Prof. P P Raveendran from 25--27 March 2014
- g) Seminar on Publishing 12 January 2015 with NBT.
- h) Workshop on Malayalam Computing in August 2015.
- i) National Seminar on “Re-Reading Padmarajan” in January 2016
- j) National Seminar on Thirukkural in March 2016.

28. Student Projects

- Percentage of students who have done in-house projects including inter-departmental projects : 100%
- Percentage of students doing projects in collaboration with other universities industry / institute: Nil

29. Awards / recognitions received at the national and international level by



Faculty

- Dr. P.S Radhakrishnan received national film award (best film critic) by the Govt. of India for the year 2014.
- Dr.Aju K N received Dr. B R Ambedkar National fellowship award by Bharateeya Dalit Sahithya Academy, New Delhi in 2012.
- Dr.Saji Mathew was a recipient of Research Award from UGC (2014-16).
- Dr.Aju K N was a recipient of Research Award from UGC (2012-15)

Doctoral / post-doctoral fellows

- Siddharth Siva received national film award

Students

- The School of Letters won the first prize in the literary quiz conducted in connection with Sahiti, Thunchath Ezhuthachhan Malayalam University Tirur, February 2014.

30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any.

| Sl.No | Name of National/International Conference | Funding agency | Eminent Scholars/Scientist who participated |
|--------------|--|-----------------------|--|
| 1. | One day seminar on “Vision and Experience” 29 March 2012 | M.G.University | Shri Kumar Sahini National Award Winner for Direction |
| 2. | Workshop on Poetry, drama, and story in September 2012 | MG University | |
| 3. | Seminar on Computational Practices in association with Akshara, December, 2012 | M.G.University | Prof. B.Iqbal Former Vice Chancellor,Kerala University |
| 4. | Translator’s Orientation Programme from 13 to 16 February 2013 | MG University | |

| | | | |
|----|--|----------------|---|
| 5. | National Seminar on Indian Cinema: A Century in Perspective, 21-23 March 2013 | M.G.University | Dr. Hariharan, eminent film maker and critic in Tamil Nadu |
| 6. | National Seminar on Comparative Literature” from 25--27 March 2014 | M.G.University | Prof.N.V.Narayanan,Calicut University. |
| 7. | Seminar on Publishing 12 January 2015 with NBT | MG University | |
| 8. | Workshop on Malayalam Computing in August 2015. | MG University | |
| 9. | National Seminar on “Re-Reading Padmarajan” in January 2016 | M.G.University | Shri.Joshy Mathew,Former Kerala Sahithya Academy Vice President |
| 10 | National Seminar on <i>Thirukkural</i> in March 2016 | M.G.University | Prof Nachimuthu Internationaly Relevant Linguistics |
| 11 | National Conference on The Hebrew Question in the Italian Renaissancein April 2016 | M.G.University | Prof.Daniel Stein Kokin Jewish Literature and Culture,University Greifswald,Germany |

31. Code of ethics for research followed by the departments

Punctuality, timely consultation, integrity and responsibility in approaching secondary sources:

Students/researchers are encouraged to uphold noble values and principles in research. Strict vigil is followed to prevent plagiarism among researchers.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| MA Malayalam | 320 | 10 | 30 | 100 | 100 |
| MA English | 1600 | 5 | 35 | 100 | 100 |
| M.Phil Malayalam | 200 | 12 | 20 | 100 | 100 |
| M.Phil English | 220 | 7 | 25 | 100 | 100 |
| M.Phil Theatre Arts | 100 | 10 | 14 | 100 | 100 |



33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students From universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| MA Malayalam | 70 | 30 | Nil | Nil |
| MA English | 60 | 40 | Nil | Nil |
| M.Phil Malayalam | 70 | 30 | Nil | Nil |
| M.Phil English | 50 | 30 | 20 | Nil |
| M.Phil Theatre Arts | 50 | 50 | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- NET : 58

35. Student progression

| Student progression | Percentage against enrolled |
|--|---|
| UG to PG | NA |
| PG to M.Phil. | 30 |
| PG to Ph.D. | 20 |
| Ph.D. to Post-Doctoral | 1 |
| Employed <input type="checkbox"/> Campus selection Other than campus <input type="checkbox"/> recruitment | Nil 70 |
| Entrepreneurs | There are publishers, script writers among our alumni. Several of them are running their own news channels. Some have occupied high administrative positions in India and abroad. |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|----|
| of the same university | 42 |
| from other universities within the State | 29 |
| from universities from other States from | 29 |
| universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil**38. Present details of departmental infrastructural facilities with regard to**

- a) **Library** : equipped with more than 18,233 books
- b) **Internet facilities for staff and students** : Yes, computer lab with internet access, personal computers for faculty with internet access
- c) **Total number of class rooms** : 7
- d) **Class rooms with ICT facility** : 1
- e) **Students' laboratories** : The students of the School are actively involved in theatrical activities. We have a good collection of properties, equipment and costumes for drama. We have also equipped ourselves with high definition cameras which enable our students to document our cultural activities and programmes. Several films too have been produced by our students using these facilities.
- f) **Research laboratories** : NA

39. List of doctoral, post-doctoral students and Research Associates

- a) **from the host institution/university** : 35
- b) **from other institutions/universities** : 25

40. Number of post graduate students getting financial assistance from the university: 10**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :**

Review of available literature, informal discussions with various stakeholders (Alumni, students, academic experts, educational institute and publishing houses) and analysis of the collected information in the department faculty council.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
Yes, the feedback is used to improve upon teaching methodology and syllabus orientation



- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
Yes, the feedback is used to improve curriculum and teaching-learning – evaluation.
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
Yes, the feedback is used to improve upon teaching methodology and syllabus orientation

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|-------------------|--|
| 1. | Sidhartha Siva | National award winning film maker |
| 2. | Dr. Sreenath Nair | Academic, Lincoln University, UK |
| 3. | Dr. Manoj M B | Poet, academician |
| 4. | Dr. Ajay Sekher | Academician, translator and critic. |
| 5. | Ettumannur Kannan | Academic and Kathakali Artist |
| 6. | Dileesh Pothan | Theatre activist and state award winning film maker. |
| 7. | Unnikrishnan B. | Critic, prominent film maker and activist. |
| 8. | Sajitha Madathil | Theatre Person and Actress |
| 9. | E Saneesh | Media person working with News 18 |
| 10. | Manoj Menon | Senior media person working with Mathrubhoomi News |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

1. One day seminar on “Vision and Experience” 29 March 2012.
2. Workshop on Poetry, drama, and story in September 2012
3. Seminar on computational practices in association with Akshara, December, 2012.
4. Translator’s Orientation Programme from 13 to 16 February 2013
5. National Seminar on Indian Cinema: A Century in Perspective, 21-23 March 2013.
6. National Seminar on Comparative Literature” in connection with the retirement of Prof. P P Raveendran from 25--27 March 2014
7. Seminar on Publishing 12 January 2015 with NBT.
8. Workshop on Malayalam Computing in August 2015.
9. National Seminar on “Re-Reading Padmarajan” in January 2016
10. Keywords: a special lecture series with experts from various fields.
11. National Seminar on Thirukkural in March 2016
12. National Seminar on Indian Cinema: A Century in Perspective, 21-23 March 2013.
13. National Seminar on Comparative Literature” in connection with the retirement of Prof. P P Raveendran from 25--27 March 2014.

14. Translator's Orientation Programme from 13 to 16 February 2013
15. Prof. G Sankara Pillai memorial Lecture was given by Dr. Sebastian Paul and Commemoration Lecture given by Dr. N. R. Gramaprakash January 1, 2013.
16. R. Narendra Prasad Memorial Lecture given by Prof. M. Leelavathy.
17. Lecture on Classical Hollywood films Dr. Hariprasad, EFL University Hyderabad, on 18 October 2012.
18. Social Theory and Literature, a Lecture by Vice Chancellor Dr. Rajan Gurukkal on 5 September 2012
19. Lecture on Dalit Nationalism by Dr. Sanal Mohan on 14 September, 2012
20. Lecture on Gandhi in Contemporary Context by Prof. M S John on October 14 , 2012
21. Workshop on Malayalam Computing in August 2015.

45. List the teaching methods adopted by the faculty for different programmes:

Lecture, presentations, assignments, term papers and tutorial sessions.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored: By obtaining feedback from all stakeholders and alumni.

47. Highlight the participation of students and faculty in extension activities.

We make sure that the benefits of the academic programmes reach the common man sooner or later by engaging ourselves in various extension activities. This achieved through film festivals and drama.

48. Give details of "beyond syllabus scholarly activities" of the department :

- a) Keywords: a special lecture series with experts from various fields.
- b) National Seminar on Indian Cinema: A Century in Perspective, 21-23 March 2013.
- c) National Seminar on Comparative Literature" in connection with the retirement of Prof. P P Raveendran from 25--27 March 2014.
- d) Translator's Orientation Programme from 13 to 16 February 2013, in collaboration with National Translation Mission.
- e) Prof. G Sankara Pillai memorial Lecture was given by Dr. Sebastian Paul and Commemoration Lecture given by Dr. N. R. Gramaprakash January 1, 2013.
- f) R. Narendra Prasad Memorial Lecture given by Prof. M. Leelavathy.
- g) Lecture on Classical Hollywood films Dr. Hariprasad, EFL University Hyderabad, on 18 October 2012.
- h) Social Theory and Literature, a Lecture by Vice Chancellor Dr. Rajan Gurukkal on 5 September 2012
- i) Lecture on Dalit Nationalism by Dr. Sanal Mohan on 14 September, 2012
- j) Lecture on Gandhi in Contemporary Context by Prof. M S John on October 14 , 2012
- k) Workshop on Malayalam Computing in August 2015 in association with CDAAC.
- l) National seminar on Re-reading Padmarajan in January 2016
- m) International Seminar on *Thirukkural* in March 2016
- n) Seminars, workshops, collaborative endeavours, cultural activities



49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : By Kerala Folklore Academy

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied: School of Letters has been instrumental in introducing literary and cultural theory in curriculum design all over Kerala. The faculty of the School have played a significant role in syllabus reforms of the University. Books edited by the School of Letters faculty, often with chapters written by them have been the highlight of our syllabi. Similarly contributions in the form translations between English and Malayalam have not only enriched our cultural traditions but have also been part of the curriculum in other universities. The faculty of the School have been members of various academic bodies of universities within and outside the state.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Nationally reputed faculty.
- Dynamic interaction of the faculty with the civil society.
- Rare structure of the school which combines different languages, literatures and art forms.
- Common courses for different languages.
- Students' exposure to faculty of different languages, literatures and art forms.

Weaknesses:

- Insufficient number of faculty
- Absence of technically qualified faculty to teach subjects relating to theatre and cinema.
- Absence of faculty to guide research in fine arts, music and other art forms.
- Absence of a proper seminar cum theatre complex and a customized library.
- Lack of students from other states and countries.
- Lack of uninterrupted power supply.

Opportunities:

- Development of cultural and film studies in the context of a rapidly changing social scenario.
- Students getting equipped in theoretical research in areas of literature and culture.
- Interaction between disciplines makes students better equipped to deal with methodological challenges.
- Opportunity to attend seminars, conferences, workshops and the like being regularly organized by the School.
- Opportunity for students to access School of Letters library, arguably one of the best in this part of the country as far as modern books and other documents are concerned.

Challenges:

- At the Post graduate level getting good students with an aptitude for literary and cultural studies.
- To convince the public and the prospective student community about the

uniqueness of the programmes.

- To attract more students from outside the state.
- Getting international scholars interested in literature and culture of India and Kerala.

52. Future plans of the department.

- Translation of works/knowledge texts from other Indian languages to Malayalam and vice versa.
- Academic and cultural exchange programmes of faculty and students.
- Enrichment of social outreach programme.
- To explore the possibilities of organizing programmes like Scholar in Residence in line with the ongoing Erudite Programme.
- Introduce new and emerging areas including film studies and media studies to make School of Letters a Centre of Excellence in the state.



SCHOOL OF MANAGEMENT AND BUSINESS STUDIES

| 1. | Name of the Department | : | School of Management and Business Studies | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|---|--|------------|--------|-----------------------------|-----------|---|---|---|----------------------|---|---|---|------------------|---|---|---|--------|---|---|---|
| 2. | Year of establishment | : | 1998 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes Faculty of Management Sciences. | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <ul style="list-style-type: none"> • MBA • M Phil • Ph.D | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | | MBA programme itself is interdisciplinary involving papers from Accountancy, Economics, Quantitative techniques, MIS to papers in areas of various specializations. | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | MOU signed MDI Gurgaon for sending 6 students every year for the MDI summer university program. | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | Nil | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | | Semester /Choice Based Credit System | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | | Students are free to opt for open courses offered by other departments. | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others) | | <table> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual(including CAS & MPS)</th></tr> <tr> <td>Professor</td><td>1</td><td>1</td><td>1</td></tr> <tr> <td>Associate Professors</td><td>2</td><td>2</td><td>3</td></tr> <tr> <td>Asst. Professors</td><td>6</td><td>5</td><td>4</td></tr> <tr> <td>Others</td><td>-</td><td>-</td><td>-</td></tr> </table> | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | 1 | 1 | 1 | Associate Professors | 2 | 2 | 3 | Asst. Professors | 6 | 5 | 4 | Others | - | - | - |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | 2 | 2 | 3 | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | 6 | 5 | 4 | | | | | | | | | | | | | | | | | | | | |
| Others | - | - | - | | | | | | | | | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|----------------------|-------------------|---------------------|---------------------------|----------------------------|--|
| Dr K Sreeranganadhan | M Com MBA Ph.D | Professor | Finance & Marketing | 38 | Ph.D-8 M.Phil-2 |
| Dr E Sulaiman | M Com MBA Ph.D | Associate Professor | Financial Management | 16 | Ph.D-8 M.Phil-9 |
| Dr Santhosh P Thampi | B Tech MBA Ph.D | Associate Professor | Human Resource Management | 12 | Ph.D- 7 +2 (New Admission) M.Phil- 7 |
| Dr Siby Zacharias | MSc MBA, Ph.D | Associate Professor | Human Resource Management | 19 | Ph.D- 9 M.Phil- 2 |
| Dr Sajimon Abraham | MSc, MCA,MBA Ph.D | Assistant Professor | IT & Operations Research | 17 | Ph.D- 6(New Admission) M.Phil- 1 |
| Dr Johney Johnson | MBA, M.Phil, Ph.D | Assistant Professor | Marketing Management | 15 | Ph.D – 8 M.Phil- 5 |
| Dr Afsal E M | MBA Ph.D | Assistant Professor | Marketing Management | 8 | Ph.D- 4 M Phil- 1 |
| Dr Biju M K | B Tech, MBA Ph.D | Assistant Professor | Financial Management | 4 | Ph.D-1+2 (New Admission) M.Phil- 2 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| Sl.No | Name | Visiting fellows/Adjunct faculty/ Emeritus professors | Specialization |
|-------|---------------------------|--|--|
| 1. | Prof. A M Salim | Former Director, Federal Bank | Strategic Management General Management |
| 2. | Prof. Francis Cherunillam | Rtd. Professor, CUSAT | Marketing Management |
| 3. | Prof. R Venkatapathy | Director, Bharathiar Institute of Management | Human Resource Management |
| 4. | Sri Sheikh Parieth IAS | MD, Kerala Rapid transport Corporation | General Management/ Public Administration |
| 5. | Sri Mathai Baker Fenn | Corporate Trainer | Corporate Etiquettes |
| 6. | Prof.Panchanathan | Professor, Annamalai university | Financial Management |
| 7. | Prof. T Mallikarjunappa | Professor & Chairman MBA program, Mangalore university | Security & Portfolio Management |



13. **Percentage of classes taken by temporary faculty – programme-wise information :**
-Nil

14. **Programme-wise Student Teacher Ratio**

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| MBA | 15:1 |
| M.Phil | 1:1 |
| Ph.D | 7:1 |

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

| Support Staff | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 2 | 2 |
| Administrative Staff | 4 | 4 |

16. **Research thrust areas as recognized by major funding agencies**

- Social Entrepreneurship
- Retail Management
- Consumer Behaviour
- Corporate Governance
- Security Analysis
- Compensation Management
- Data Analytics
- Portfolio Management
- Responsible Tourism Management

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :**

Completed 4 UGC projects. One major project for 5 Lakhs and 3 minor projects of 1 lakh each.

a) **National** : Nil

b) **International** : Nil

| Sl. No | Title of the Project | Duration | Funding Agency | Amount in lakhs (₹) |
|--------|--|----------------|----------------|---------------------|
| 1. | A study on the marketing strategies adopted by small scale industries in Ettumannur. | 2012, 6 months | UGC | 0.15 |
| 2. | “Challenges And Opportunities In Back Water Tourism: A Case Study”., 2010-2012 | 2012, 6 months | UGC | 0.15 |
| 3. | Loan Portfolio of SHGs in Kerala | 2012, 6 months | UGC | 0.15 |

| | | | | |
|----|---|-------------------|-----|------|
| 4. | A study on the entrepreneurial behavior of Kudumbashree units in Ettumannur Grama Panchayat | 2012, 6 months | UGC | 0.15 |
| 5. | Utilization of internet and IT tools in the management of higher educational institutions. | 2012, 6 months | UGC | 0.15 |
| 6. | A Study on the working of Fisheries Cooperative Society in Kerala | 2011-13 | UGC | 5.00 |
| 7. | Financial sustainability of SHG in Kerala | 2011 | UGC | 1.00 |
| 8. | Minor Research Project on "Moving Object Databases | 2011 | UGC | 1.00 |
| 9. | "Sustainable Tourism: A Case Study On Kumarakom, Kerala" | 2011 | UGC | 1.00 |

Total grants received: ₹ 8.75 Lakhs

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration : Nil
b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

| Sl. No | Title of the Project | Duration | Funding Agency | Amount in lakhs (₹) |
|--------|------------------------|----------|----------------|---------------------|
| 1 | Towards Infrastructure | | UGC | 15.00 |

Total grants received: ₹ 15 lakhs

20. Research facility / centre with

- State recognition : Yes
- National recognition ;Yes
- International recognition : Nil



21. Special research laboratories sponsored by / created by industry or corporate bodies :
Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 62 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 64 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 6 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 132 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 5
- Citation Index – range / average : NA
- SNIP : NA
- SJR : NA
- Impact factor range :
- H index

| Sl. No | Name of Faculty Member | Citation | H- Index |
|--------|------------------------|----------|----------|
| 1 | Dr E Sulaiman | 9 | 1.0 |
| 2 | Dr Santhosh P Thampi | 12 | 1.0 |
| 3 | Dr Siby Zachariaias | 18 | 1.0 |
| 4 | Dr Sajimon Abraham | 32 | 1.0 |
| 5 | Dr Johney Johnson | 15 | 1.0 |
| 6 | Dr EM Afsal | 219 | 10.0 |
| 7 | Dr Biju M K | 9 | 1.0 |

23. Details of patents and income generated
Nil

24. Areas of consultancy and income generated : ₹ 0.75 Lakhs

| SL.No | Description | Income generated in lakhs (₹) |
|-------|---|-------------------------------|
| 1. | Recruitment & Selection of Bank Assistants at Kareepra Service Cooperative Bank | 0.70 |

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

| Sl.No. | Name of the university/industry | Year | Details |
|---------------------------|--|----------------------|---|
| Dr E Sulaiman | | | |
| 1. | GSTF- Global Science Technology Forum | 2012 | Selected to present his research paper at the International Conference in Singapore. |
| Dr Siby Zacharias | | | |
| 2. | IIM Lucknow | Jan 2014 | Selected to present his research paper at the International Conference in IIM Lucknow |
| Dr Johnney Johnson | | | |
| 3. | IIM Lucknow Monash University, Australia | Jan 2014 Dec 2011 | Selected to present his research paper at the International Conference in IIM Lucknow, Malaysia, Bangkok, |
| Dr Sajimon Abraham | | | |
| 4. | Remin University of China | July 2011 | Selected to present his research paper at the International Conference in Beijing, China. |

26. Faculty serving in**a) National committees**

| Sl. No. | Name of the faculty | Committee |
|---------|----------------------|---|
| 1. | Dr K Sreeranganadhan | Director, Dean of Faculty, Member- AICTE, UGC NET, CBSE Board. Chairman BOS of M G University Member BOS of Kerala University, Kannur University, KUFOS. |
| 2. | Dr E Sulaiman | Member-AICTE BOS member of Kerala University, & Kannur University & M G University |
| 3. | Dr Santhosh P Thampi | Member-AICTE BOS Member M G University Nodal Officer- Higher Education Survey & NIRF. |



| | | |
|----|--------------------|--|
| 4. | Dr Siby Zacharias | BOS member of Kannur University. BOS -PG programmes in Management of Affiliated Colleges of Mahatma Gandhi University and the Department MBA. Member, BOS in B. Voc, St. Berchmans Institute of Management, St. Berchmans College, Changanacherry, Rajagiri School of Management |
| 5. | Dr Sajimon Abraham | BOS member of Kannur university, Kerala & M G University Director- International Student Centre, M G University. |
| 6. | Dr Johnney Johnson | Member- UGC NET, CBSE Board Coordinator, Placement & Training Cell, Mahatma Gandhi University Member, BOS in Management at SMBS, Mahatma Gandhi University Coordinator, UGC-FRP, Mahatma Gandhi University Resource Person – UGC HRDC of Kerala University, Calicut University & Kannur University. |

b) International committees: Nil

c) Editorial Boards

d) Any other

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1. | Afsal E.M: | <ul style="list-style-type: none"> Member of Review Panel, Journal of Applied Economics published by The University of Warwick, United Kingdom (2009- present) Member of Review Panel, Advances in Economics and Business published by Horizon Research Publishing, USA (2014-present) Member of Review Panel , Amity Journal of Management Research (AJMR) published by Amity University, Noida, India (2016-present) |
| 2. | Johnney Johnson : | <ul style="list-style-type: none"> Member of Review Panel , Amity Journal of Management Research (AJMR) published by Amity University, Noida, India (2015-present) |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

| Year | Refresher Programme | Orientation Programme | Short Term Programme |
|---------|---------------------|-----------------------|----------------------|
| 2011-12 | 1 | 1 | - |
| 2012-13 | 2 | - | 3 |
| 2013-14 | Nil | - | - |
| 2014-15 | - | - | 1 |
| 2015-16 | - | - | - |

28. Student projects

| | |
|--|------|
| • percentage of students who have done in-house projects including inter-departmental projects | Nil |
| • percentage of students doing projects in collaboration with other universities/ industry / institute | 100% |

29. Awards / recognitions received at the national and international level by

a) Faculty

| Name of the faculty | Details |
|---------------------|---|
| Afsal E.M. | <ul style="list-style-type: none"> AIMS-NMIMS Outstanding Paper Award at the thirteenth International Conference on Management organized during 19-22 December 2015 at Indua business Academy, Bangalore Award for Best Doctoral Paper Presentation in the AIMS-International Conference on Management held on 2009 December 20-23 at IIM Bangalore, 2009 |

b) Doctoral / post-doctoral fellows

| Name of the Doctoral / post-doctoral fellows | Details |
|--|--|
| Radhika PC & Johny Johnson | Received the best paper award at the International Conference organised at SNGCE, (2013) |
| Jominy Joice & Siby Zacharias | Career Management in Changing Career Context', Trends and Challenges in Indian Business Management, Jominy Joice & Siby Zacharias,; International Conference, Placitum November 6 & 7, 2014 |
| Brijesh George John & Siby Zacharias | A Study on Online Jewellery Sales in India' International Conference on Advanced Management- Challenges in Knowledge Era, 8 th & 9 th January 2015, AMAL Institute of Management, Bharathidasan University |



30. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|---------|--|-------------------|--------------------------|
| 2010-11 | Nil | | |
| 2011-12 | Nil | | |
| 2012-13 | Nil | | |
| 2013-14 | One week Workshop on Research Methodology in 2014 | University | 35 |
| 2014-15 | Nil | | |
| 2015-16 | Two day National Conference on Business Models during February 25-26, 2016 | UGC | 110 |
| | one week Finishing School programme for outgoing MBA students in March 1-5, 2016 | University | 56 |

31. Code of ethics for research followed by the departments

Ethical Practices for Research

- 1. Plagiarism-** Authors should firmly cite the works of others giving a notation that the work belongs to others and is not of the author. Generally accepted rules for plagiarism apply to all types of works (review, methodology, results etc).
- 2. Misuse of information-** Any information collected for research purpose is confidential and is meant for academic purpose only and hence misuse of such information for personal or commercial gains is totally prohibited.
- 3. Data validity** – Researcher has to ensure the integrity and validity of the data used in his/her research work in order to maintain the honesty of the output. Also, a researcher should publish the work with maximum confidence and produce necessary details for reproducing the work for examination purpose or further clarification.
- 4. Ownership and acknowledgement** – In case of funded research, authors in the reports should duly acknowledge the funding and facilitating agencies. Ownership of the data, software and other study materials should be with the university or school.
- 5. Authorship Criteria-** In case of multiple authors, each one should be given proper credit while publishing/communicating. Order of authors must be decided well in advance and a corresponding author should be designated.
- 6. Duplication-** Any particular work published/under consideration should not be sent to other journals/conferences without making proper citation in the later publication or explicitly informing the editor of the matter. Guidelines for authors of each journal will be the apex authority in deciding the matter.
- 7. Disclosure-** Researcher should disclose maximum information about the work including the academic relevance, sources of information, and appropriateness of the methods, conflict of interest if any, to the stakeholders.

- 8. Supervision** – Being research supervisor or principal investigator is a matter fully based on academic interest and meritocracy. No discrimination is allowed in forming research groups and subsequently monitoring them based on caste/religion/region/gender/ethnicity/social or economic status of prospective researchers.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| 2010-12 | 250 | 29 | 27 | 100 | 100 |
| 2011-13 | 315 | 23 | 34 | 100 | 100 |
| 2012-14 | 213 | 31 | 26 | 100 | 100 |
| 2013-15 | 535 | 26 | 28 | 100 | 100 |
| 2014-16 | 464 | 28 | 32 | 100 | 100 |
| 2015-17 | 120 | 30 | 29 | On going | |
| M.Phil: | | | | | |
| 2011-12 | 34 | 3 | 3 | 100 | 100 |
| 2012-13 | 17 | 4 | 2 | 100 | 100 |
| 2013-14 | 64 | 1 | 5 | 100 | 100 |
| 2014-15 | 20 | 1 | 5 | 100 | 100 |
| 2015-16 | 10 | 1 | 5 | 100 | 100 |

33. Diversity of students

| Name of the Programme MBA (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| 2011-12 | 70 | 23 | 5 | 2 |
| 2012-13 | 72 | 21 | 7 | -- |
| 2013-14 | 76 | 19 | 5 | -- |
| 2014-15 | 65 | 24 | 11 | -- |
| 2015-16 | 72 | 20 | 8 | |



| Name of the Programme M.Phil (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from other universities outside the State | % of Students from other countries |
|--|--|--|---|------------------------------------|
| 2010-11 | 3 | 2 | 1 | -- |
| 2011-12 | 2 | -- | 4 | -- |
| 2012-13 | 3 | 2 | 1 | -- |
| 2013-14 | 4 | 2 | -- | -- |
| 2014-15 | 4 | -- | 2 | -- |

- 34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

| Year | Civil Services and Defence Services examinations, NET, SET, GATE |
|---------|--|
| 2010-12 | 3 |
| 2011-13 | 3 |
| 2012-14 | 4 |
| 2013-15 | 5 |
| 2015-16 | 5 |

- 35. Student progression**

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | 2% |
| PG to Ph.D. | 5% |
| Ph.D. to Post-Doctoral | |
| Employed | |
| <input type="checkbox"/> Campus selection | 30% |
| <input type="checkbox"/> Other than campus recruitment | 55% |
| Entrepreneurs | 5% |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|----|
| of the same university | 12 |
| from other universities within the State | 64 |
| Universities from other States | 24 |
| from universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

| Name of the faculty | M.Phil., Ph.D., D.Sc. and D.Litt |
|----------------------------|---|
| Dr Siby Zacharias | Ph.D |
| Dr Sajimon Abraham | Ph.D |
| Dr M K Biju | Ph.D |

38. Present details of departmental infrastructural facilities with regard to**Library**

| | |
|--|------------------------|
| a) Library | Available, 7549 books, |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | 5 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Yes |
| f) Research laboratories | Yes |



39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

| Name of Guide | Doctoral | Post-doctoral | Research Associates |
|-----------------------------|------------------------------------|---------------|---------------------|
| Prof. Dr .K Sreeranganathan | Mr.Abey Jose George- Awarded 2017 | | |
| | Mrs Praleena P L - Awarded 2017 | | |
| | Anoop K K | | |
| | Asha R Nair Awarded 2013 | | |
| | Lekshmi Bhai P S Awarded 2013 | | |
| | Krishnakumar G Awarded 2014 | | |
| | Sabu V G Awarded 2015 | | |
| | VeenaPriya S Awarded 2017 | | |
| Dr. E Sulaiman | Uvais M | | |
| | Roshni P R | | |
| | Dawn Jose | | |
| | Sindu P Nair Awarded 2014 | | |
| | Basil John Awarded 2014 | | |
| | Sajith Kumar Awarded 2014 | | |
| | Shajan | | |
| | Hazeena P.E | | |
| Dr.Santhosh P Thampi | Mrs Meera M S Awarded 2016 | | |
| | Tiny Maria Mathew | | |
| | Mrs Krishnakumari M R Awarded 2017 | | |
| | John Babu Awarded 2016 | | |
| | Jils Mathew Awarded 2016 | | |
| | Mathew John | | |
| | Rakhi p | | |
| Dr.Siby Zacharias | Sibichen Joseph | | |
| | Brijesh George John | | |
| | RoshenTheres Sebastian | | |
| | Joshy John | | |
| | Neha Varghese | | |
| | Saji Mathew Awarded 2013 | | |
| | JominyJoice J | | |
| | DeepthySreedhar | | |
| | Geethu Anna Mathew | | |
| Dr Sajimon Abraham | Mr. Rajesh N | | |
| | Ms. Lumy Joseph | | |
| | Ms. Saritha K | | |
| | Mr. Nishad Abdul Rahman | | |
| | Ms. Benymole Jose | | |
| | Ms. Deepa Mathews | | |
| Dr.Johney Johnson | Biju B | | |
| | Mrs.Bhagyalakshmi P. C | | |
| | Mrs.Ushus Mathew | | |
| | Joju Chacko Akkara Awarded 2014 | | |

| | | | | |
|-------------|-----------------------|--------------|--|--|
| | Radhika P C | Awarded 2016 | | |
| | Sonia Mathew Katherin | Awarded 2016 | | |
| | C V Lolitha | | | |
| | Tijo Thomas | | | |
| Dr.Biju | Jacob Bose | | | |
| Dr.Afsal EM | Martini Jose K | | | |
| | Dona Babu | | | |
| | Hazeena P E | | | |
| | Priyanka I | | | |

b) from other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university:

Specify the fellowship for details

| Year | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------|------|------|------|------|------|
| MBA programme | 14 | 15 | 23 | 20 | 5 |
| M Phil Programme | 1 | 1 | 2 | 3 | - |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

Yes. The need assessment is done after inviting the stakeholders. Primarily the feedback of parents, alumni and industry experts are taken into consideration before designing a new programme or introducing a new specialisation.

42. Does the department obtain feedback from

| | |
|---|---|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | The feedback is placed before the faculty council and after discussing the same necessary changes/improvements are made. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Student feedback of teachers is encouraged and the feedback thus received is used as indicators for faculty improvement. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni feedbacks are collected during Alumni meetings and the same is also placed before the faculty council for discussions and the necessary changes are adopted. |



43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|--------------------|---|
| 1. | Dr Roshna Varghese | Assistant Professor, Rajagiri Institute of Management |
| 2. | Sarita K P | LIC Divisions Officer, Ernakulum |
| 3. | Dileep K H | Deputy Manager, Axis Bank |
| 4. | Hegal Charles | SAP Consultant, HBS Infopark. |
| 5. | Eby Elias | Manager, South Indian Bank |
| 6. | Shanavas | Deputy Collector, Kollam District |
| 7. | Dr Biju M K | Assistant Professor, M G University. |
| 8. | Shibin Mathew | Asst. Manager, South Indian Bank |
| 9. | Sandra Pauva | Asst. Manager, South Indian Bank |
| 10. | Arun K | Asst. Manager, Indian bank |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

| YEAR | No of Special Lectures | No of Workshops |
|---------|--|--|
| 2011-12 | <ol style="list-style-type: none"> 1.Prof. Biju Varkey (IIM Ahmedabad) delivered a talk on innovative learning methods 2.Prof. Mathew Manimala (IIM Bangalore) delivered a talk on Entrepreneurship 3.Prof. J Rajan (Kerala University) delivered a talk on Research Methods 4.Prof. Anandakuttan Unnithan (IIM Kozhikode) took a class on ‘Case Analysis’. 5.Prof. Gupta (Director, MDI Gurgaon, delivered a talk on “Management in a Multi Cultural Society) | <ol style="list-style-type: none"> 1. A Five day Induction Programme for Fresher’s was conducted by a team lead by Sri G Balachandran (Corporate Trainer) 2. A three day Placement Training was conducted for Final Semester Students by Corporate Trainer G Balachandran |
| 2012-13 | <ol style="list-style-type: none"> 1. Smt. Jayalakshmi G Nair (Branch Manager Stock Holding Corporation of India Ltd.) demonstrated ‘Live on Line Trading’. 2.Prof. Venkatapathy (Bharathiar university) delivered a talk on ‘Corporate Success’. 3.Prof. Rupert Mampally (CUSAT) took a one day session on ‘Identification of Research Problem’. | <ol style="list-style-type: none"> 1. A Five day Induction Programme for Fresher’s was conducted by a team lead by Sri G Balachandran (Corporate Trainer) 2. A three day Placement Training was conducted for Final Semester Students by Corporate Trainer G Balachandran |

| | | |
|---------|---|--|
| | 4. Prof. P T Sreenivasan (Madras University) delivered a talk on 'Learning through games'. | |
| 2013-14 | <ol style="list-style-type: none"> 1. Sri Anil Varrier (Sr GM- India Cements) delivered a lecture on 'Ingredients for Corporate Success'. 2. Prof. T Asokan (Kannur University) delivered a talk on Security Analysis. 3. Prof. Rupert Mampally (CUSAT) took a one day session on 'Identification of Research Problem'. | <ol style="list-style-type: none"> 1. Workshop on Research Methodology (1 week programme) 2. A Five day Induction Programme for Fresher's was conducted by a team lead by Sri G Balachandran (Corporate Trainer) 3. A three day Placement Training was conducted for Final Semester Students by Corporate Trainer G Balachandran |
| 2014-15 | <ol style="list-style-type: none"> 1. Dr C K Francis (St Thomas College, Thrissur) delivered a talk on Derivatives and Risk Management 2. Dr Sreekanth (MES Marampally) delivered a talk on WTO. 3. Mr Javad K Hassan (Chairman, NEST Group) - "Technology Enterprises in India: Experiments, Experiences and Expectations" | <ol style="list-style-type: none"> 1. A Five day Induction Programme for Fresher's was conducted by a team lead by Sri G Balachandran (Corporate Trainer) 2. A three day Placement Training was conducted for Final Semester Students by Corporate Trainer G Balachandran |
| 2015-16 | <ol style="list-style-type: none"> 1. Dr Santhosh V A (TKM) delivered a talk on Transactional Analysis 2. Sri Ajith Shankar (Corporate CEO) delivered a talk on 'Living in a Network Era'. 3. Sri. Ajay George Varghese delivered a talk on 'Corporate Ethics' 4. Sri Suresh Pillai (GM – Malayala Manorama) delivered a talk on 'Corporate expectations from MBA graduates' 5. Sri K M Thomas (Ret. Chief GM, Purchase, Indian Railways) delivered a talk on TQM- Contributions of Management gurus. 6. Mr Ajay George Varghese (TiE Charter Member and President, CII, Kottayam Chapter) – "Entrepreneurship: Struggle and Success" 7. Mr Abdul Gafoor Kunhi (Motivational Speaker and Academic Trainer) – "Personality Development" | <ol style="list-style-type: none"> 1. A Five day Intensive Finishing School programme was conducted by the Placement Cell. The trainers included Sri G Balachandran, Sri Ajay Kumar Nair and Sri Thomas Zachariah. 2. A Five day Induction Programme for Fresher's was conducted by a team lead by Sri G Balachandran (Corporate Trainer) 3. A three day Placement Training was conducted for Final Semester Students by Corporate Trainer G Balachandran |



45. List the teaching methods adopted by the faculty for different programmes.

| | |
|-------------------|--|
| For MBA | Besides Lecture classes, focus is more on participative learning. Hence case analysis, role plays, learning through management games, seminars, group discussions, panel discussions, debates on issues etc. form the teaching pedagogy. |
| For M Phil | Besides lecture classes, seminar/ research presentations, publications and discussions on the same form the pedagogy. |

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through continuous evaluation from Students, parents and other stakeholders. PTA meeting is organised twice in a year and in exigencies.

47. Highlight the participation of students and faculty in extension activities.

Student participation in extension activities are ensured through social projects undertaken jointly along with the faculty. Studies have been conducted for SHGs in the adjoining town Ettumanoor. Faculty members are involved in extension activities through consultancy, Regular Radio talks on management and business related topics, taking up responsibilities like being the nodal officer for various national agencies.

48. Give details of “beyond syllabus scholarly activities” of the department.

Eminent speakers are regularly invited to speak on current topics of importance, social issues, Budget discussions, Radio discussions, doordarshan panel discussions. Faculty members by participating as resource persons at UGC HRDC, seminars, conferences bring in a rich blend of knowledge which are shared among the students.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Recognised by AICTE

| | |
|-------------------------|-------------|
| Permanent Institute I D | 1-475216661 |
| AICTE File Number | AIC000247 |

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Through Publications (Both National and International), Through projects/studies of SMBS. One such important study was on price issues in the rubber and latex industries done by SMBS.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Excellent faculty members who work for upliftment of the students.

- Students are exposed to modern communication networks and management systems.
- The vision and mission of the school is made known to the public, candidates who seek admission, students and teachers by publishing it in the school website.
- The web site of the school developed & maintained by the Business Intelligence group of the School.
- At the beginning of the academic year the year, plan & portfolio is designed after discussion in the faculty Council. Every student is known about the completion of the course, timing of different examinations.
- Regular student assessment methods are adopted within the framework of the syllabus giving more emphasis to case study based teaching approach and virtual learning component with the help of A-VIEW software.

Weakness

- Location disadvantage.
- Lack of International Collaborations.
- Highly depending on internal source of funds.
- Lack of student exchange programme.

Opportunities

- Potential to become premium Business School in Kerala.
- MDP/EDP for working Professionals.
- Smart City, start-up & Entrepreneurship promotions from central and state governments.

Challenges

- Global economic slowdown.
- Lack of academic drive/enthusiasm among students.
- Admission process prone to regular changes.
- Competing with other management.
- Institutions in terms of physical ambience.

52. Future plans of the department.

- Establish a center of excellence in Management in Kerala.



- Creation and Installation of Management Education Portal to disseminate Management related teaching, training, research, consultancy and placement activities
- A Solar Energy Plant at the top of SMBS building.
- To start a P. G Diploma Course in Plantation Management.
- To start a P.G Diploma in Retail marketing, Data Analytics and Business Intelligence.
- To start a P.G Diploma in Entrepreneurship.
- Seeking NBA accreditation
- Installation of Technology Business Incubator under “Kerala Prospective Plan 2030”.
- International tie ups.

SCHOOL OF PEDAGOGICAL SCIENCES

| | | | | | | |
|-----|---|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | School of Pedagogical Sciences | | | |
| 2. | Year of establishment | : | 1992 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Education | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | M.Ed., M.Phil. & Ph.D. | | | |
| 5. | Interdisciplinary programmes and departments involved | | Our students are from various subjects such as arts, science and commerce. We adopt the new teaching methodologies and strategies based on the subjects. | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | Nil | | | |
| 8. | Examination System Annual/Semester/Trimester/Choice Based Credit System | | Credit and semester system | | | |
| 9. | Participation of the department in the courses offered by other departments | | The students , research scholar ,faculty of the school participate in seminars, conference, special lectures, workshop offered by other departments | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 1 | 0 | 1 |
| | | | Associate Professors | 2 | 1 | 2 |
| | | | Asst. Professors | 6 | 3 | 1 |
| | | | Others | - | - | - |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|-----------------------|--------------------------------|---------------------|----------------|----------------------------|--|
| Dr.T.V. Thulasidharan | MA, MEd, Ph.D | Professor | Education | 24 years | M.phil - 12 P.hD - 9 |
| Dr. Jaya Jaise | MA, MEd, Ph.D,UGC-JRF | Associate Professor | Education | 23 years | M.phil - 5 P.hD - 5 |
| Dr.Minikutty A. | MSc, MEd, M.Phil, Ph.D,UGC-JRF | Associate Professor | Education | 22 years | M.phil - 5 P.hD - 7 |
| Dr.Sajna Jaleel | MSc, MEd, Ph.D | Assistant Professor | Education | 18 years | M.phil - 4 P.hD - 5 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

The eminent professors in the field of education visited our School and gave special lectures to the students and research scholars to enrich their frontiers in education and research. The professors who visited the School include Prof. A Sukumaran Nair, Prof. P M Jaleel, Prof. M.ASudheer, Prof .K.Karunakaran, Prof.K R Sivadasan, Prof. Viswanadhan Nair P and Prof. C.P Sreekandan Nair

13. Percentage of classes taken by temporary faculty – programme-wise information:
N.A.

14. Programme-wise Student Teacher Ratio:

| | |
|--------|-------|
| M.Ed | 8.5:1 |
| M.Phil | 1.5:1 |
| P.hD | 8:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled | Actual |
|-----------------------------|------------|--------|--------|
| Technical | 1 | 1 | 1 |
| Administrative Staff | 4 | 4 | 4 |

16. Research thrust areas as recognized by major funding agencies:

- Educational Technology
- Educational Psychology
- Educational Sociology
- Educational Philosophy
- Value Education
- Human Rights Education
- Peace Education
- Techno Pedagogy

- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

a) national

| Sl.No. | Title of the Project | Period | Funding agencies | Total Fund in Lakhs (₹) |
|--------|--|--------|------------------|-------------------------|
| 1. | Analysis of Performance-Based Assessment of English: A study Among Secondary School Teachers of Kerala | | UGC | 1.1 |
| 2. | Programme Design and Implementation of an Idyllic Classroom Culture of Thinking Through Designated Mechanisms to Engage Teacher Educands at Secondary Level In Peace Building Activities | | UGC | 1 |
| 3. | “Teaching Mathematical Thinking Through E-Contents in Mathematics among Secondary School Students” | | UGC | 2.56 |

b) International: Nil

c) Total Grant received: ₹4.66 Lakhs

- 18. Inter-institutional collaborative projects and associated grants received: Nil**

a) National collaboration b) International collaboration

- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil**

- 20. Research facility / centre with**

- State recognition : Yes
- National recognition : Yes
- International recognition

- 21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil**

- 22. Publications:**

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 94 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 13 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | 1 |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 109 |



- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range: 3.4163 to 5.00475
- h-index
- e-journals – 16

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

The faculty of the schools provides educational and research constancy to Schools, TTIs, B.Ed. colleges, DIETs, SCERT, SIET, SIEMAT and the like.

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in a) National committees)

b) International committees c) Editorial Boards d) any other (please specify Faculty serving in

a) National committees

| | |
|----------------------|---|
| Dr. P. J. Jacob | Dean, Faculty of Education ,University of Kerala |
| | Dean, Faculty of Education, Kannur University |
| | Dean, Faculty of Education, Sanskrit University, Kaladi. |
| | Member, Syndicate, Kannur University |
| Dr. Celine Pereira | Member, NAAC Peer Team |
| | Former Associate Editor of the Peer Reviewed Journal in Education of the School of Pedagogical Sciences, PEDAGOGICS having ISSN 2229-7618 |
| | Member, Kerala State Higher Education Governing Council |
| | Member of PG Board of Studies in Education of Central University, Kasaragod |
| | Member of PG Board of Studies in Education of Bharathidasan University, Coimbatore, Tamilnadu |
| Dr.T.V.Thulasidharan | Dean, Faculty of Education, Mahatma Gandhi University |
| | Chairman, Board of Studies in Education (PG), Mahatma Gandhi University |
| | Member, Kerala State Higher Education Governing Council |
| | Former Member, Syndicate, Mahatma Gandhi University |
| | Editorial Board Member of the journal of Farook Training |

| | |
|-----------------|--|
| | College, ENDEAVOURS IN EDUCATION having ISSN 0976-4275 |
| | Editorial Board Member of the International Bi-Annual Peer Reviewed Journal in Education RESEARCH DEMAGOGUE |
| | Former Associate Editor of ACADEMIA, the Peer Reviewed Journal in Education of the Institute of Advanced Studies in Education, Thrissur. |
| Dr.Minikutty A | Associate Editor of the Peer Reviewed Journal in Education of the School of Pedagogical Sciences, PEDAGOGICS having ISSN 2229-7618 |
| | Member of PG Board of Studies in Education of Mahatma Gandhi University & former Member of UG Board of Studies in Education of Mahatma Gandhi University |
| Dr. Jaya Jaise | Former Member of UG and PG Board of Studies in Education of Madurai Kamaraj University |
| | Former Member of UG Board of Studies in Education of Mahatma Gandhi University |
| | Coordinator, Kuriakose Elias Chavara Chair, Mahatma Gandhi University |
| Dr.Sajna Jaleel | Editorial Board Member of the International Journal, UJER |
| | Member of UG & PG Board of Studies in Education of Mahatma Gandhi University |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

The faculty members of the School attended orientation, refresher and short term programmes from 2010 to 2016 to enhance quality and competency.

| | |
|---|-----|
| UGC- ASC Orientation programme | 1 |
| UGC -ASC Refresher programme | 2 |
| Workshops | 18 |
| Training programme on LINUX by Centre for High Performance Computing of Mahatma Gandhi University | 8 |
| Seminars/ Conferences attended (international, national & state level) | 434 |
| Programmes of other institutions (SCERT & SIEMAT) | 6 |

28. Student projects

| | |
|---|------|
| Percentage of students who have done in-house projects including inter-departmental projects | 100% |
| Percentage of students doing projects in collaboration with other universities/industry / institute | Nil |

29. Awards / recognitions received at the national and international level by

a) Faculty

- Dr. Celine Pereira was the recipient of the Best Teacher Educator Award of Council of Teacher Educators in 2013

b) Doctoral / post doctoral fellows

- Dr. Varghese P. Peter was recipient of National Best Teacher Award in 2013-14
- Mrs. Sindhu P.G. was recipient of the Best Paper Presenter Award by Council of Teacher Educators in 2014

c) M.Ed Students

- Mrs. Sreeja Swas recipient of the Best Paper Presenter Award by Council of Teacher Educators in 2013

30. Seminars/Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

- One day workshop on 'Adolescence Education and Life Skills' – organized by the School in collaboration with SCERT and NCERT funding.
- Three day empowerment programme on 'Adolescence Health and Life Skills' – organized by the School in collaboration with SCERT and NCERT funding.

31. Code of ethics for research followed by the departments:

To ensure integrity, confidentiality and responsibility in the research reports, papers, articles and Ph.D. theses submitted and published, they are subjected to a plagiarism certification. The software used in the schools are original ones.

32. Student profile programme-wise: (refer to question no. 4)

| Name of the Programme | Year | Applications received | Selected | | Pass percentage | |
|-----------------------|---------|-----------------------|----------|--------|-----------------|--------|
| | | | Male | Female | Female | Female |
| M.Ed. | 2011-12 | 163 | 11 | 29 | 100 | 100 |
| | 2012-13 | 394 | 7 | 31 | 100 | 100 |
| | 2013-14 | 430 | 9 | 31 | 100 | 100 |
| | 2014-15 | 252 | 8 | 31 | 100 | 100 |
| | 2015-17 | Handled by CAT Cell | 7 | 28 | 100 | 100 |
| M.Phil. | 2011-12 | 7 | 1 | 2 | 100 | 100 |
| | 2012-13 | 13 | 1 | 4 | 100 | 100 |
| | 2013-14 | 14 | 2 | 6 | 100 | 100 |
| | 2014-15 | 14 | 2 | 3 | 100 | 100 |
| | 2015-16 | 6 | 3 | 3 | Examination due | |

| | | | | | | |
|---------------------|---------|----|---|----|-----------------|-----|
| Ph.D. Coursework | 2011-12 | 30 | 4 | 16 | 100 | 100 |
| | 2012-13 | 13 | 1 | 33 | 100 | 100 |
| | 2013-14 | 14 | 1 | 5 | 100 | 100 |
| | 2014-15 | 10 | 2 | 11 | 100 | 100 |
| | 2015-16 | 20 | 2 | 12 | Examination due | |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| M.Ed. | 90 | 10 | 0 | 0 |
| M.Phil. | 95 | 5 | 0 | 0 |
| Ph.D. Coursework | 80 | 15 | 5 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Year | UGC NET | SET/SLET | State PSC | Any others | Total |
|---------|---------|----------|-----------|---|-------|
| 2010-11 | 8 | 3 | 3 | --- | 14 |
| 2011-12 | 13 | 9 | 2 | UPSC - 1 | 25 |
| 2012-13 | 13 | 4 | 2 | Bank - 2 LIC - 1 CTET - 4 KTET - 1 | 27 |
| 2013-14 | 10 | 5 | --- | --- | 15 |
| 2014-15 | 4 | 4 | 6 | --- | 14 |
| 2015-16 | 5 | 4 | 10 | --- | 19 |
| Total | 53 | 29 | 23 | 9 | 114 |

35. Student progression

| Sl. No | Year | Student progression | Percentage against enrolled |
|--------|---------|------------------------|-----------------------------|
| 1 | 2010-11 | UG to PG | N.A |
| | | PG to M.Phil | 5% |
| | | PG to Ph.D. | 5% |
| | | Ph.D. to Post-Doctoral | Nil |
| | | Employed by | |



| | | | |
|---|---------|---|------|
| | | <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | Nil |
| 2 | 2011-12 | UG to PG | N.A |
| | | PG to M.Phil | Nil |
| | | PG to Ph.D. | 7% |
| | | Ph.D. to Post-Doctoral | Nil |
| | | Employed by <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | Nil |
| 3 | 2012-13 | UG to PG | N.A |
| | | PG to M.Phil | 10% |
| | | PG to Ph.D. | 10% |
| | | Ph.D. to Post-Doctoral | 0 |
| | | Employed by <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | Nil |
| 4 | 2013-14 | UG to PG | N.A |
| | | PG to M.Phil | 10% |
| | | PG to Ph.D. | 4% |
| | | Ph.D. to Post-Doctoral | Nil |
| | | Employed by <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | Nil |
| 5 | 2014-15 | UG to PG | N.A |
| | | PG to M.Phil | 5% |
| | | PG to Ph.D. | 0% |
| | | Ph.D. to Post-Doctoral | Nil |
| | | Employed by <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | Nil |
| 6 | 2015-16 | UG to PG | N.A |
| | | PG to M.Phil | 7.5% |
| | | PG to Ph.D. | 2.5% |
| | | Ph.D. to Post-Doctoral | Nil |
| | | Employed by <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | Nil |

36. Diversity of staff

| | |
|--|----|
| Percentage of faculty who are graduates of the same university | 0 |
| Percentage of faculty who are graduates from other universities within the State | 89 |
| Percentage of faculty who are graduates from universities from other states | 0 |
| Percentage of faculty who are graduates from universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period - Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|--|---|
| a) Library | 6109 |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | 3 |
| d) Class rooms with ICT facility | 1 |
| e) Students' laboratories | 9 |
| f) Research laboratories | 3 <ul style="list-style-type: none"> • Psychology Lab, • Technology Lab • Computer Lab |

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university
- b) from other institutions/universities

The list of doctoral students of the School of Pedagogical Sciences who were awarded Ph.D. by Mahatma Gandhi University is as follows.



| Year | Sl. No: | Name of the candidate |
|-----------|---------|--------------------------|
| 2010-2011 | 1 | Elizabeth Kuruvila |
| | 2 | Shajimon P.P |
| | 3 | Gokuldasan Pillai |
| | 4 | Anita Mathai |
| | 5 | ReenieKuncheria |
| | 6 | Tessy Joseph Kallarackal |
| | 7 | Fr. Varkey A.V |
| | 8 | Varghese K. Cheriyan |
| | 9 | Anu G.S |
| | 10 | Sreeja S. |
| | 11 | M.V Vijayakumar |
| 2011-2012 | 12 | RemmiyaRajan |
| | 13 | Srinivasan K.K |
| | 14 | Sajikumar K.B |
| | 15 | SurajBalan P.V |
| | 16 | Binu B.L |
| | 17 | Asha O.S |
| | 18 | Alka Abbas M.A |
| 2012-2013 | 19 | Jayalekshmi S. |
| | 20 | Madankumar C.K |
| | 21 | Ashokan P. |
| | 22 | Sajith C. Raj |
| | 23 | Varghese P. Peter |
| | 24 | Issac Paul |
| | 25 | Anilakumari M.C |
| | 26 | Sivaprasad K. |
| | 27 | SreeVrinda Nair N. |
| 2013-2014 | 28 | Lekshmi S. |
| | 29 | Lalamani P. |
| | 30 | Padma Priya P.V |
| | 31 | Regi P. Mathew |
| | 32 | Rajasree S. |
| | 33 | VeenaAppukuttan |
| | 34 | Sheeba Krishnan |
| | 35 | Betty P.J |
| | 36 | Anilkumar K.P |
| | 37 | Suresh K.J |

| | | |
|-----------|----|----------------------|
| 2014-2015 | 38 | Rajan K. |
| | 39 | Prakash Alex |
| | 40 | Manoj A.V. |
| | 41 | Jisha Baby |
| | 42 | Sumanmol N.S. |
| | 43 | Abdul Shukkoor P.K |
| | 44 | Lohidhasan M.K. |
| | 45 | Suneethi A.S. |
| | 46 | A. Prameela |
| | 47 | Elizabeth Thomas |
| | 48 | Binu Raj A. |
| | 49 | Annie Mary Thomas |
| | 50 | Radhakrishnan T.T |
| | 51 | Pradeepkumar S.L. |
| | 52 | Jisha Joy |
| 2015-2016 | 53 | Susmitha P.S. |
| | 54 | Alice Joseph |
| | 55 | Viji K. Ramakrishnan |
| | 56 | Bincy Thomas |
| | 57 | Beena Rani S |
| | 58 | Lissa Joseph |
| | 59 | Rinu V. Antony |
| | 60 | Chithra C.S |
| | 61 | Arunkumar P. |
| | 62 | SwapnaGopinath |
| | 63 | Geethu G Nair |
| | 64 | VipulMurali |
| | 65 | RakhyRadhakrishnan |
| | 66 | Anitta N. |
| | 67 | Liza Mathew |
| | 68 | Bhagyalakshmy P. |
| | 69 | SeemaGopinath |
| | 70 | Renjini K.R |
| | 71 | SosammaVarghesse |
| | 72 | Elizabeth Joshua |
| | 73 | SheelaK.Shany |
| | 74 | Sreevidya S. Marar |



40. Number of post graduate students getting financial assistance from the university.

| <u>Year</u> | <u>No. of student</u> |
|-------------|-----------------------|
| 2010-'11 | 06 |
| 2011-'12 | 12 |
| 2012-'13 | 12 |
| 2013-'14 | 05 |
| 2014-'15 | 07 |
| 2015-'16 | 22 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

New programmes in the school was always designed after having a thorough discussion with stakeholders (alumni, students, PTA, academic experts and social organisations). This was further discussed in the faculty council and resolutions were taken and later informed to university for starting new development programme.

42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The faculty discuss and take decisions on matters relating to their teaching-learning-evaluation process.

- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Practical suggestions put forth by the faculty are integrated into their daily practice. Student feedback on Curriculum as well as Faculty are collected using two Proforma

- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Creative criticisms are incorporated to redesign the teaching method adopted by faculty members so as to achieve improved performance. Besides, the comments of alumni and directions of the employer are also duly considered and included by the faculty.

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|-----------------------------|---|
| 1. | Dr.MinimolSrambickal | Director, College Development Council, University of Kerala. |
| 2. | Dr.Amruth G. Kumar | Associate Professor, Central University, Kasaragod. |
| 3. | Dr.Anu G. S | Assistant Professor, Central University, Himachel Pradesh. |
| 4. | Dr. Varghese K. Cherian | Principal, St. Joseph's Training College, Mannanam. |
| 5. | Dr. T. K. Mathew, Principal | Principal, Titus II Teachers College, Thiruvalla |
| 6. | Dr.Pushpa Marian | Principal, Mount Carmel College of Teacher Education for Women, Kottayam. |
| 7. | Dr.Subash, | Associate Professor, NCERT, New Delhi. |
| 8. | Dr.AncyVarughese | Project Officer, SCERT, Trivandrum |
| 9. | Dr.Sosamma Varghese | Coordinator, UCTEs, Mahatma Gandhi University |
| 10. | Mr. Shine P. S | Deputy Director, Directorate of Public Instruction |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

1. One day Seminar on Know Your Child, in collaboration with Association of Learning Disabilities, on 3rd August 2011
2. One day Seminar on Right to Education: The Kerala Context, in collaboration with Council for Teacher Education, on 11th August 2011
3. Two day UGC sponsored National Seminar on Models of Teaching, in collaboration with MES College, Marampally, on 19th & 20th January 2012
4. Three day Workshop on Research Methodology from 12th to 14th August 2013
5. One day Workshop on Adolescence Education and Life Skills, in collaboration with SCERT and funded by NCERT, on 29th August 2014
6. Three day Empowerment Programme on Adolescence Health and Life Skills, in collaboration with SCERT and funded by NCERT, from 3rd to 5th September 2014
7. One day Lecture on Research Methodology by Professor (Dr.) M. A. Sudhir, Gandhigram Rural University, on 7th December 2014
8. One day Lecture@schoolprogramme related to Space Awareness Week, in collaboration with ISRO, on 8th August 2015
9. One day Lecture on Research Methodology by Professor (Dr.) M. A. Sudhir, Gandhigram Rural University, in March 2016
- 10.



45. List the teaching methods adopted by the faculty for different programmes.

The faculty of the School adopts several methods for different programmes. Lecture, discussion, power point presentations, self-learning through individual assignment and seminar presentation, and the like.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The School conducts continuous and comprehensive evaluation for all the programmes and thereby evaluates and ensures that the programmes objectives are constantly met. For this, internal examinations, assignments, seminars and end semester examinations are administered and evaluated. The outcomes are then critically analysed and monitored to guarantee that the programme objectives are realised.

47. Highlight the participation of students and faculty in extension activities.

The Students of the School provide necessary academic assistance to the underachievers in neighbouring schools.

48. Give details of “beyond syllabus scholarly activities” of the department.

The students of the School actively participate in all programmes of the University, compete in literal, cultural and sports events, and the like.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. – No.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

New knowledge in education is generated through the findings of research conducted in the areas of teaching and learning, techno pedagogy, blended learning, educational technology, educational psychology, educational philosophy, and educational sociology, value education. Findings of research in the areas of education are published in reputed journals and books.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Good infrastructure.
- Vast repertoire of books.
- Highly qualified faculty.
- Good programmes in education.
- Spacious and well equipped labs.

Weaknesses:

- Reduced demand ratio
- Reduced faculty strength
- Extended timeframe of the M.Ed.
- Programme as per NCTE regulations

Opportunities:

- Grooming young generation of teachers.
- Yoga and meditation programmes for healthy body
- Engaging in community-related activities.
- Exploring the possibilities of e-learning

Challenges:

- Conduct of national/international seminars/conferences.
- Using the psychology lab equipment for the local community.
- Physical expansion of the library.
- Lesser diversity of students.

52. Future plans of the department:

The School envisages to evolve as a Centre of Excellence for Teacher Education by providing

- Training/orientation programmes in recent trends of Pedagogy.
- Orientation programmes in Research Methodology in Humanities
- Diploma/short term courses in Guidance and Counselling, Educational Planning and Development, Curriculum Development and Evaluation, Educational Management, Economics of Education, Citizenship Education, & Human Rights Education.



SCHOOL OF PHYSICAL EDUCATION & SPORTS SCIENCES

| | | | | | | | | | | | | | | |
|-------------------------------------|--|--------|---|--|--|------|------------|--------|---------------------|---|---|-------------------------------------|---|---|
| 1. | Name of the Department | : | School of Physical Education & Sports Sciences | | | | | | | | | | | |
| 2. | Year of establishment | : | 1983 | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | The School is under the Faculty of Education | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Master of Physical Education (MPed) from 2012 to 2015- renamed as Master of Physical Education and Sports (MPES) from 2016 as per UGC Circular. Ph.D | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Physical Education being interdisciplinary in nature, the School has adopted it as a conceptual plank in the framing of all its programmes | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | MPed programme was suspended temporarily by the University in 2015 for administrative reasons | | | | | | | | | | | |
| 8. | Examination System | : | M.PEd Programme is designed as Credit and Semester System (CSS) as per the regulations of the University | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) | | <table><tr><td>Post</td><td>Sanctioned</td><td>Filled</td></tr><tr><td>Professor/ Director</td><td>1</td><td>1</td></tr><tr><td>Asst. Professor/ Assistant Director</td><td>2</td><td>0</td></tr></table> | | | Post | Sanctioned | Filled | Professor/ Director | 1 | 1 | Asst. Professor/ Assistant Director | 2 | 0 |
| Post | Sanctioned | Filled | | | | | | | | | | | | |
| Professor/ Director | 1 | 1 | | | | | | | | | | | | |
| Asst. Professor/ Assistant Director | 2 | 0 | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No of PhD /MPhil students guided for the last 6 years |
|-------------------------|---------------|-------------|-------------------|----------------------------|---|
| Dr.Binu George Varghese | MPed, Ph.D | Director | Sports Psychology | 15 | 09 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information:

Master of Physical Education (MPed) - 80%
PhD - Nil

14. Programme-wise Student Teacher Ratio:

MPed - 15:1

PhD - 7:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

| Post | Sanctioned | Filled |
|------------------------|------------|--------|
| Coach | 5 | 1 |
| Administrative Officer | 1 | 1 |
| Assistant | 3 | 2 |
| Clerical Assistant | 1 | 1 |
| Peon | 1 | 0 |

16. Research thrust areas as recognized by major funding agencies:

The school offers Ph.D in the following key areas or thrust areas

- Sports Psychology
- Exercise Physiology
- Bio Mechanics
- Health & Fitness

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil
18. Inter-institutional collaborative projects and associated grants received

Nil



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

| Details | Funding agency | Total Grant Recived in Lakhs (₹) |
|------------------------------|----------------|----------------------------------|
| Sports Hostel | UGC | 200.00 |
| Swimming Pool | UGC | 225.00 |
| Tennis Court | UGC | 25.00 |
| Purchase of Sports Equipment | UGC | 25.00 |
| Sports Laboratory | UGC | 25.00 |

Total grants received:

20. Research facility / centre with

- State recognition : YES
- National recognition : YES
- International recognition : NO

21. Special research laboratories sponsored by / created by industry or corporate bodies

Sports Science lab with UGC funding

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 12 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 15 |
| 3. | Chapters in Books | Nil |
| 4. | Edited Books | Nil |
| 5. | Books authored with ISBN | 1 |
| 6. | Articles in popular publications | Nil |
| | Total | 28 |



23. **Details of patents and income generated :** Nil
24. **Areas of consultancy and income generated :**
Health and fitness - Rs 1.80 Lakhs generated annually in DDF fund
25. **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :** Nil
26. **Faculty serving in**

a) **National committees –8**

| Sl. No. | Name of the faculty | Committee |
|---------|--------------------------|---|
| 1. | Dr. Binu George Varghese | <ol style="list-style-type: none"> 1. Appointed as the Secretary of the Kerala State Sports Council, Thiruvanthapuram by the Government of Kerala from April 2014 to June 2016. 2. Nominated as the Chairman of the UGC Committee for the on the spot evaluation of the Sports Infrastructure in various Universities in India. 3. Nominated as AIU observer for EZ Kabbadi (M) Championship 2012 by the Association of Indian Universities Vide letter No. S/NUG/AIU-OBS/2012-13-590910 dated 10/9/2012. 4. Appointed as the convenor of the High Power committee under the chairmanship of Sri. G.S.G. Ayengar IAS, Joint Secretary Sports, Government of India constituted to formulate the Sports policy of government of Kerala, Vide G.O.(Rt) No.24/15 S&YA dated 13-02-2015. 5. Appointed as the Special officer by the government of Kerala to prepare a Detailed Project Report to set up Sports College at Chingavanam, Kottayam vide G.O(MS) No. 08/116/S&YA dated 02/02/2016. 6. Nominated as Member of the organizing committee of the 35th National Games Vide G.O.(Ms)No.19/12/S&YA dated 17th August 2012 by the Government of Kerala 7. Member of the executive committee of the 35th National Games held at Thiruvanthapuram from 31st January to 14th February 2015 appointed vide G.O(MS)No.35/14/S&YA dated 04.10.2014 |



| | | |
|--|--|---|
| | | 8. Coordinator for Accreditation, Reception and Transport committee of the 35 th National Games held at Thiruvanthapuram from 31 st January to 14 th February 2015 appointed vide G.O(Rt)No.02/15/S&YA dated 08.1.2015 |
|--|--|---|

b) International committees –Nil

c) Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|--------------------------|---|
| 1 | Dr. Binu George Varghese | One, Editorial board member of Pesquisa online Research Journal, ISSN 2455-0736 (Print) & ISSN 24564052 (Online). |

d) any other (Please Specify)

| Sl. No. | Name of the faculty | Journal |
|---------|--------------------------|--|
| 1 | Dr. Binu George Varghese | <ul style="list-style-type: none"> i) Member of the Academic council of Mahatma Gandhi University, Kottayam from 2009 onwards. ii) Member Secretary of the Board of Physical Education of Mahatma Gandhi University 2006 onwards. iii) Member of the core committee for the formulation of Syllabus for B.P.Ed. Degree of Mahatma Gandhi University, Kottayam. iv) Chairman of the core committee for the formulation of Syllabus for M.P.Ed Degree of Mahatma Gandhi University Vide U.O. No. 1717/Ac.AV/1/ SPESS/2012 dated 02/04/2012. v) Member of the faculty of Sports Science & Education of the University of Kannur Vide U.O.Acad C2 /8866/2008 dated 14/02/2012. vi) Member of the faculty of Science, Technology & Education of Sree Sankaracharya University of Sanskrit, Kalady, Vide U.O. Acad B1/14788/SSUS/2015 dated 14/06/2016. vii) Member Board of Examiners for valuation of Ph.D. Thesis of Manonmaniam Sundranar University, Tirunelveli, Tamil Nadu for the Year 2010-11. viii) Member Board of Examiners for valuation of Ph.D. Thesis of Manonmaniam Sundranar University, Tirunelveli, Tamil Nadu for the Year 2011-12. ix) Member of Board of Examiner for valuation of BPE and M.P.Ed papers of Mahatma Gandhi University, Kottayam 2011-13. x) Member of Board of Examiner for valuation of BPE and M.P.Ed papers of University of Kerala in the year 2010-12. |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- a. Resource person for the UGC sponsored National seminar on Nutrition and self care for health ageing organized by Bishop Kurialacherry College for Women, Kottayam from 14th to 15th January 2010.
- b. Resource person for the UGC sponsored National seminar on Recent Trends in Physical Education, Sports, Health Education, Yoga and Stress Management, Catholicate College, Pathanamthitta from 11th to 13th August 2010.
- c. Resource person for the UGC sponsored one day National Workshop in Sports Injuries, U.C. College, Aluva on 31st March 2011.
- d. Resource person for the National Seminar on Sports Science as a key to excellence in performance, Government college of Physical Education, Calicut from 7th to 8th March 2012
- e. Resource person for the UGC sponsored National Seminar on Physical Activity and New Age Diseases – Current Perspective, MES College, Mampad, Malapuram from 12th to 13th March 2012.
- f. Resource person for the UGC sponsored National Seminar on Nation's Health: Mobilizing Youth through Physical Literacy and Physical Education, B.K College, Amalagiri, Kottayam from 16th to 17th January 2014, and presented a theme paper entitled GET-FIT-GET HEALTHY: Achieving the Abundant Life.
- g. Resource person for the UGC sponsored National Seminar on Yoga: A Panacea for Life Style Diseases, St. Thomas College of Teacher Education, Pala, and Kottayam from 23rd to 24th January 2014.
- h. Resource person for the UGC sponsored National Seminar on Prevalence and Control of Life Style Diseases in Kerala, Devamatha College, Kuravilangad, Kottayam from 6th to 7th February 2014, and presented a theme paper entitled An Analysis of School students attitude towards Physical Education and Sports
- i. Key Speaker in the valedictory Session of the UGC Sponsored National Seminar on Nutritional Strategies for enhancing Sports Performance organised by Assumption College, Changanacherry on 20th to 21st November 2014.
- j. Resource person for the UGC sponsored National Seminar on Emerging trends in Sports Psychology, organised by Baselious College, Kottayam from 25th to 26th February 2015, and presented a theme paper entitled 35th National Games and Contribution of Sports Psychology in the Performance of Kerala teams.
- k. Resource person for the UGC Sponsored National Seminar Promoting wellness and fitness among educators organized jointly under the auspices of SPESS & Mount Carmel Training College, Kottayam 10th -11th March 2016



28. Student projects

- percentage of students who have done in-house projects including inter departmental projects - 100%
- percentage of students doing projects in collaboration with other universities/industry / School: - Nil

29. Awards / recognitions received at the national and international level by

1. Letter of Appreciation from Secretary Sports, Government of Kerala for the excellent performance of Kerala team in 35th National Games and for meticulously discharging the responsibilities of Secretary, Kerala State Sports Council during my tenure from 2014-2016.
2. Letter of appreciation by the Hon'ble Vice Chancellor, Mahatma Gandhi University for being instrumental in winning the All India Inter University Athletics Championship 2012-13.
3. Letter of Appreciation from the principal K.E. English Medium School for the support and guidance for the successful conduct of All Kerala ICSE/ISC Inter School Athletic Meet 2012-13.
4. Letter of Appreciation from the President, Association of College Teacher's In Physical Education, Mahatma Gandhi University for taking the lead to organise two workshops titled Physical Education in the Restructured Undergraduate Education grading in CBCSS System in 2009.
5. Certificate of appreciation by the Hon'ble Vice Chancellor, Mahatma Gandhi University for Successful conduct of Gandhi Jyothi Yatra and 24th foundation Day celebration of Mahatma Gandhi University in 2006.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

| Sl. No. | Activity | Date & Venue | Out Standing Participants |
|---------|--------------------------------|---|---|
| 1 | UGC Sponsored National Seminar | 14 th to 15 th January 2010, B.K. College, Amalagiri | Dr. Anil. R Dr. Jayasree Acharya Dr. Usha Nair |
| 2 | UGC Sponsored National Seminar | 13 th to 15 th August 2010, Catholicate College, Pathanamthitta | Dr. Anil. R Dr. Mani Lal Dr. V.R Bhore |
| 3 | UGC Sponsored National Seminar | 16 th to 17 th January 2014, B.K. Amalagiri | Dr. Jose Joseph (MD) Dr. Anil R |
| 4 | UGC Sponsored National Seminar | 10 th -11 th March 2016 Mount Carmel college of Teacher Education, Kottayam | Dr.Kannan Pugazhendi Dr. Jose James Dr. Shylaja Mohan |

31. Code of ethics for research followed by the departments:

Research involves a great deal of cooperation and coordination among many different people and ethical standards promote the values that are essential to collaborative work, such as trust, accountability, mutual respect, and fairness. Ethical norms in research also help to build public and official support for research. The School of

Physical Education and Sports Sciences gives high priority to research as one of its most important contributions to the society and the discipline. The School pursues a research ethos that promotes ethical responsibility in the quest for knowledge and the development, conservation and transfer of knowledge. The School focuses on endeavours to eliminate unacceptable practices within the research community.

32. Student profile programme-wise:

| Name of Programme | Year | Application received | Selected | | Pass percentage | |
|-------------------|------|----------------------|----------|--------|-----------------|--------|
| | | | Male | Female | Male | Female |
| MPEd | 2012 | 113 | 21 | 9 | 96% | 100% |
| MPEd | 2013 | 108 | 16 | 11 | 100% | 100% |
| MPEd | 2014 | 91 | 19 | 6 | | |
| PhD | 2015 | 10 | 7 | Nil | | |

33. Diversity of students

| Name of the programme | % of students from the same University | % of students from University within the State | % of students from the Universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| MPEd | 40% | 50% | 10% | Nil |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

NET -11
JRF -6

35. Student progression:

| Student Progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | NA |
| PG to M Phil | 1% |
| PG to Ph.D | 3% |
| Ph.D to Post Doctoral | Nil |
| Employed | 96% |
| • Other than Campus recruitment | |



36. Diversity of staff: No permanent staff

| Percentage of faculty who are graduates | |
|--|----|
| Of the same university | 0 |
| From other universities within the State | 75 |
| From universities from other States | 25 |
| From universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

- a) **Library** - Total area of the library - 300 sqft
 - Books - 790
 - Thesis - 15
 - Reference - 24
- b) Internet Facility: 24 x7 Wi-Fi Internet facility available for students and staff
- c) Total Number of Class rooms - 4
- d) Class Rooms with ICT facility - 2
- e) Research Sports Science Lab - 4

39. List of doctoral, post-doctoral students and Research Associates:

a) from the host institution/ University

| Sl No | Name of Scholar | Doctoral |
|-------|-------------------|----------|
| 1 | JOSE JOHN | PhD |
| 2 | DIYA VARGHESE | „ |
| 3 | NAVEEN PAUL | „ |
| 4 | PARVEEN THARIYAN | „ |
| 5 | SINI PAUL VALAYIL | „ |
| 6 | SUBHASH CHANDRA | „ |
| 7 | INDU P NAIR | „ |
| 8 | CEBY GEORGE | „ |
| 9 | SOJI JOSEPH | „ |

b) from other institution/ Universities -NIL

40. Number of post graduate students getting financial assistance from the university:
Nil

| Programme | Details of Scholarships | | | | | |
|--------------------|-------------------------|----------|----------|------------|----------|------------|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| | e-grants | e-grants | e-grants | e-grants | e-grants | e-grants |
| MPEd | NIL: | ₹ 334879 | ₹334879- | ₹ 334879 | ₹ 334879 | ₹ 334879 |
| Ph.D. | | | | | | ₹ 11250 |
| Sports Scholarship | ₹ 350000 | ₹ 350000 | ₹ 350000 | ₹ 350000 | ₹ 350000 | ₹ 350000 |
| Sports Merit Award | ₹ 425666 | ₹ 425666 | ₹ 125000 | ₹ 425666/- | ₹ 608000 | ₹ 396000/- |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

Yes, The School of Physical education and Sports Sciences which was established in the year 1983 and was upgraded as a statutory teaching department in the year 2003 as there was no recognized research centers in Physical Education in the state of Kerala. The School was approved as a research center in the year 2003 itself. Further it was a long demand from the sporting fraternity to start post graduate programme in Physical Education as there was a huge shortage of qualified man power in the higher education sector especially after the implementation of Right to education, and there was only two institution in Kerala offering post graduate programme even though there were many offering graduate course. Hence being a University known for its sporting achievement across the nation it was decided to restart post graduate Programme in Physical Education in the School from the academic year 2012 onwards.

42. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The Faculty Council analyses the feedback and makes necessary changes and additions.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The Faculty Council analyses the feedback and makes necessary changes and improvements in the curriculum and teaching –learning-evaluation process.



c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Feedback from alumni is generally collected during the annual alumni meeting. Feedback from the alumni and employers are very important as they represent the changing trends in modern sporting fraternity. Faculty Council analyses their feedback and usually incorporates it in the teaching –learning process as it helps to avoid a gap between the skills achieved by students and the requirements of the workplace.

43. List the distinguished alumni of the department (maximum 10):

| Sl No. | Name | Current Position | Remarks |
|--------|----------------------|---|---------------------|
| 1. | Anilda Thomas | Senior Superintendent, Forest Headquarters, Thiruvananthapuram | Olympian, Athletics |
| 2. | O.P Jaisha | Senior Clerk, South Central Railway | Olympian, Athletics |
| 3. | Jinson Johnson | Havildar, Indian Army | Olympian, Athletics |
| 4. | Gopi T | Havildar, Indian Army | Olympian, Athletics |
| 5. | Sri. Vishnu Lakshman | Assistant Professor, B.M College of Arts and Commerce, Ernakulam. | |
| 6. | Sri. Jinneth Mathew | Assistant Professor, Naipunya College, Cherthala | |
| 7. | Sri. Tony Thomas | Assistant Professor, Pazhassi Raja College, Wayanad | |
| 8. | Sri. Shameem P | Assistant Professor, MES College, Kondotty, Malappuram | |
| 9. | Sri. Ajesh P | Assistant Professor, Illahia Arts College, Muvattupazha | |
| 10. | Sri. Deepu S | PET in Physical Education, Kendriya Vidyalaya | |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

2012-13

- Special lectures by Dr. Jose James, Former Registrar, Mahatma Gandhi University on Sports as a Profession.
- Special Lecturer by Dr. Anil Ramachandran, Associate professor, P.K.M Training College, Kannur on the topic Research Methodology in Physical Education



2013-14

- Special Lecture by Dr. S. Manilal, Senior Scientist, SAI Patiala on the Role of Sports Science in High Performance Sports.

2014-15

- Special Lecturer by Dr. Jayasree Acharya, Professor, LNIPE Gwalior on Psychology of Coaching.
- Special Lecturer by Dr. Joselet Charles, Professor, L.N.C.P.E, Thiruvanthapuram on the topic Test and Measurement in Physical Education

45. List the teaching methods adopted by the faculty for different programmes.

Teaching methods adopted include both traditional and modern methods like lectures, Audio-visual aids, Internet Sources, Power Point Presentations, demonstrations etc

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The School ensures that programme objectives are constantly met and learning outcomes are monitored through a continuous process by modifying the syllabus as the need dictates. The performance of students is evaluated through examinations and teacher's performance is constantly evaluated through the feedback from students at the end of each year. The School always seeks the expert opinion from national experts from the field. The feedback from the alumni is also considered in revamping the programmes.

47. Highlight the participation of students and faculty in extension activities.

The students and university community as well as students from other institutions make use of the facilities of the school.

48. Give details of “beyond syllabus scholarly activities” of the department

For sharing knowledge and expertise, and helping the community to benefit from the knowledge resources available within the School, the consultancy projects are undertaken by the School, which also generate revenue for the School.

- The School runs a fitness centre, in which people of all ages and sex participate and improve their fitness and health.
- Faculty and students also provide their services in organizing, officiating and conduct of sports events across the country.
- Summer coaching camps are organized for kids in different sports.



49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The 'School of Physical education and Sports Sciences is conceived as a centre of higher learning and a center of excellence for competitive sports. The School has contributed to the Nation by producing a large pool of talented Sports persons who have not only brought glory to the University, State but also to the Nation at large through the performance of its stalwart and Olympians like Shyni Wilson, Wilson Cherian, Padmini Thomas, Sebastian Xavier, Manoj Lal, Chitra k Soman, Preeja Sreedharan, Sini Jose, Geethu Anna Jose, O.P. Jaisha to name a few. Since inception the School has been able to produce 7 Awardees, 10 Olympians, 15 Asian games athletes' and more than 200 internationals which itself is self explanatory of the contribution of the School in the field of Sports and Physical Education. Besides this the school is actively engaged in developing leaders in the field of Physical Education and research related to allied domains of Physical Education and Sports.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Our rich pool of talented and hardworking athletes.
- Hardworking, Sincere and dedicated service of the coaches, faculties and administrative Staff of the department.
- Unique innovative schemes and incentives to attract most talented Sports person to the university.
- The innovative curriculum that bridges the gap between the skills achieved by the students and the requirements of the workplace.
- The School has produced 7 Arjuna awardees, 10 Olympians, 11 Asian Games athletes and more than 750 International Athletes since inception.

Weakness

- The department was established in 1983, the school has limited Modern Sports Infrastructure at present, which acts as a hindrance for expansion activities.
- There is a shortfall of four permanent faculty members in the School. But this weakness is addressed by utilizing the services of Guest Lecturers.

Opportunities:

- There exists a huge demand – supply gap in the field of Physical Education and Sports which provides an opportunity for the institution to supply trained manpower according to the requirements.
- To train the University high performing athletes with the support of Sports Science.

Challenges:

- Development of Modern sports infrastructure.
- Filling up of the existing vacancies of faculties and coaches

52. Future plans of the department.

- Development of Modern Sports infrastructure like 400 mtrs Synthetic Track, Olympic size Swimming Pool and Multi Purpose Indoor Stadium.
- To emerge as a leading Sports training centre.
- To establish a full fledged laboratory of Sports Sciences like Performance Psychology, Performance Analysis, Exercise Physiology, Sports Nutrition and Sports medicine and to emerge as a premier institution training elite athlete with the support of sports science.



SCHOOL OF PURE AND APPLIED PHYSICS (SPAP)

| | | | | | | |
|-----|--|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | School of Pure & Applied Physics | | | |
| 2. | Year of establishment | : | 1983 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | M.Sc Physcs M.Phil Physics Ph.D Physics | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Interdisciplinary course on Nanoscience is being offered as elective for PG students | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | PG Elective courses in Astronomy & Astrophysics are run in collaboration with the Inter University Centre for Astronomy & Astrophysics (IUCAA), Pune (Autonomous Institution set up by the UGC) under a MoU | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Choice Based Credit and Semester System | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Classes are offered by faculty for courses offered by other centres at Centre for Nanoscience & Nano Technology, Institute for Intensive Research in Basic Sciences, National Institute for Plant Science Technology. The Department offers Open Course for students from other schools and our students attend Open Courses offered by other departments. | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 1 | Nil | 2 |
| | | | Associate Professors | 2 | Nil | 1 |
| | | | Asst. Professors | 8 | 7 | 4 |
| | | | Others | Nil | Nil | Nil |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | Experience | No of PhD /MPhil students guided for the last 6 years |
|-------------------------------|----------------------|----------------------|-----------------------|-------------------|--|
| Dr. C Sudarsanakumar | MSc, PhD | Professor | Crystallography | 22 | PhD:3, MPhil:6 |
| Dr. Indulekha K | MSc, PhD | Professor | Astrophysics | 26 | PhD:4 MPhil:5 |
| Dr. Nandakumar KalaKalarikkal | MSc, PhD | Associate Professor | Materials Science | 22 | PhD:8 Mphil:5 |
| Dr. S Antony | MSc, PhD | Assistant Professor | Solar Physics | 10 | PhD:1 MPhi:4=5 |
| Mrs. Saritha A C | Msc, MTech | Assistant Professor | Material Science | 10 | PhD:0 MPhil:1 |
| Dr. Cyriac Joseph | MSc, PhD | Assistant Professor | Materials Science | 08 | PhD:2 MPhil:5 |
| Dr. P R Biju | MSc, PhD | Assistant Professor | Materials Science | 07 | PhD:1 MPhil:6 |
| Dr. C Venugopal | MSc, PhD | Professor up to 2014 | Plasma Physics | 30 | PhD:3 MPhil:5 |
| Dr. N V Unnikrishnan | MSc, PhD | Professor up to 2014 | Materials Science | 30 | PhD:8 MPhil:6 |



12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| Sl.No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|-------|---------------------|---|---------------------|
| 1. | Dr N V Unnikrishnan | Emeritus Scientist – KSCSTE | Laser spectroscopy |
| 2. | Dr Chandu Venugopal | Emeritus Scientist /Visiting Professor | Plasma Physics |
| 3. | Dr Moncy V John | Visiting Professor | Theoretical Physics |

13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programme | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------|------|------|------|------|------|------|
| M.Sc | Nil | | | 38 | 38 | 38 |
| M.Phil | | | | 25 | 25 | 25 |
| Ph.D | | | | 25 | 25 | 25 |

14. Programme-wise Student Teacher Ratio:

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| M.Sc. | 4:1 |
| M.Phil. | 1:1 |
| Ph.D. | 3:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| Support staff | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 7 | 5 |
| Administrative Staff | 4 | 3 |

16. Research thrust areas as recognized by major funding agencies:

- Materials Science
- Nanoscience
- Biophysics
- Plasma Physics

- Astrophysics (National pooled fund)

17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) national

| Sl. No | Project Title | Period | Funding agencies | Amount in lakhs(₹) |
|--------|---|-----------|---------------------|--------------------|
| | Dr Nandakumar Kalarikkal | | | |
| 1. | Nanoparticle aggregation behavior in polymer nanocomposites | 2014-2017 | UGC-DAE-CSR Kolkata | 7.89 |
| 2. | 'Design and applications of magnetically responsive self-assembled polymer nanocomposites | 2016-20 | DST-Nano Mission | 200.00 |
| 3. | Physics of Cavitation Bubbling and Hydrogen Generation during Liquid Phase Laser Ablation | 2016 -18 | BRNS | 34.96 |
| | Dr N V Unnikrishnan | | | |
| 4. | Sol Gel Shaping of nanostructures and their characterization of Plasmonic application | 2014 -17 | KSCSTE | 15.0 |
| 5. | Sol-Gel Synthesis and characterization of tellurite based device materials | 2012-2015 | UGC- CSIR | 15.42 |

b) international

| Sl. No | Project Title | Period | Funding agencies | Amount in Lakhs(₹) |
|--------|---|-----------|---|--------------------|
| | Dr Nandakumar Kalarikkal | | | |
| 1. | Biobased scaffold, membrane and hydrogel for improved wound healing and bone regeneration (BIOHEAL) | 2017-2019 | International project-Swedish Research Links-(Indian Collaborator)- | 8.00 |

Total grants received: ₹ 281.27 Lakhs

**18. Inter-institutional collaborative projects and associated grants received****a) National collaboration**

| Sl. No | Project Title | Period | Funding agencies | Amount in Lakhs(₹) |
|--------|---|--------|--|--------------------|
| | Dr Indulekha K | | | |
| 1. | National pooled funds utilized for the promotion of teaching & research in Astronomy & Astrophysics | | MoU with (IUCAA, Pune) | |
| 2. | National pooled funds utilized for science development for the Square Kilometer Array | | MoU with Square Kilometer Array India Consortium | |

b) International

| SL.No | Project Title | Period | Funding agencies | Amount in Lakhs(₹) |
|-------|---|--------|--|--------------------|
| | Dr Indulekha K | | | |
| 1. | National pooled funding by India TMT (Thirty Meter Telescope) | | International Science Development Team for Milky Way & Nearby Galaxies | |

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

| Sl. No | Project Title | Period | Funding agencies | Amount in Lakhs(₹) |
|--------|--|---------|------------------|--------------------|
| 1. | DST –FIST To strengthen the post graduate, teaching and research facility in the department | 2010-15 | DST | 40.00 |
| 2. | UGC SAP DRS Phase I | 2009-14 | UGC | 62.40 |
| 3. | UGC SAP DRS Phase II | 2016-21 | UGC | 103.00 |
| 4. | DST-PURSE | 2012-16 | DST | 225.00 |
| | Total | | | ₹ 430.4 |

Total grants received: ₹ 430.4 Lakhs

20. Research facility / centre with

- State recognition : YES
- National recognition : YES
- International recognition : YES

21. Special research laboratories sponsored by/created by industry or corporate bodies : Nil**22. Publications:**

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 222 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 9 |
| 5. | Edited Books | 6 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 6 |
| 9. | Total | 243 |

Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :

- Citation Index – range / average : 199 (With IF) + 10
- SNIP : 3625 Average : 362
- SJR : Nil
- Impact Factor – range / average : Nil
- h-index : 0.37 - 6.227 / 2.1
- : 10

23. Details of patents and income generated : Nil**24. Areas of consultancy and income generated : 5.60 L****25. Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad :**

| Sl. No. | Name of the faculty | Details of Laboratory |
|---------|---------------------|--|
| 1. | Dr.Nandakumar K | Visit Jawaharlal Nehru Centre for Advanced Research, Bengaluru, |
| 2. | Dr K Indulekha | Inter-University Center for Astronomy & Astrophysics Pune and National Center for Radio Astrophysics, Pune |



26. Faculty serving in :

a) National committees:

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------------|--|
| 1. | Dr K Indulekha | <ol style="list-style-type: none"> 1. Member, Executive Committee, Square Kilometer Array India Consortium (signatory-DAE) 2. Member Science Sub Committee, Square Kilometer Array India Consortium (signatory-DAE) 3. Member Technical Sub Committee, Square Kilometer Array India Consortium (signatory-DAE) 4. Member, Square Kilometer Array HI Science Working Group (signatory- DAE) 5. Member, Thirty Meter Telescope India –HRS Working Group (signatory- DST) 6. Convener of Parallel Session in Astronomy & Astrophysics, 19th National Space Science Symposium, VSSC -2016 7. Member, Scientific Organizing Committee of the Astronomical Society of India (2010 -2013) 8. Visiting Associateship of the Inter University Centre for Astrophysics, Pune 9. Life Member, Astronomical Society of India 10. Life Member, Indian Institute of Science Alumni |
| 2. | Dr C Sudarsanakumar | <ol style="list-style-type: none"> 1. Life Member, Indian Crystallographic Association 2. Life Member, Alumnus, IIT Chennai |
| 3. | Dr C Venugopal | <ol style="list-style-type: none"> 1. Life Member, American Geophysical Union |
| 4. | Dr N V Unnikrishnan | <ol style="list-style-type: none"> 1. Life Member, Indian Laser Association 2. Life Member, Indian Crystallographic Association |
| 5. | Dr. Nandakumar Kalarikkal | <ol style="list-style-type: none"> 1. Life Member, Indian Physics Association 2. Life Member, Plasma Science Society of India |
| 6. | Dr Cyriac Joseph | <ol style="list-style-type: none"> 1. <i>Life Member, Indian Crystallographic Association</i> |
| 7. | Dr P R Biju | <ol style="list-style-type: none"> 1. Life Member, Indian Laser Association |
| 8. | Mrs Saritha A C | <ol style="list-style-type: none"> 1. Life Member, Photonics Society of India |

b) International committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1. | Dr K Indulekha | 1. Member, International Science Development Team, Thirty Meter Telescope (signatory-DST) 2. International Affiliate Member, American Astronomical Society |
| 2. | Dr C Sudarsanakumar | 1. Life Member, Alumni, Ohio State University, USA 2. Member of the Institute of Physics, USA. 3. Member of American Chemical Society |
| 3. | Dr N V Unnikrishnan | 1. Member of American Chemical Society |

b) Editorial Boards : Nil**c) any other (please specify)**

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1. | Dr K Indulekha | Reviewer for Journal of Astrophysics & Astronomy |
| 2. | Dr C Sudarsanakumar | Reviewer of the following journals 1. Material Science in Semiconductor Processing 2. Journal of Molecular Modelling <i>Member of Board of Studies:</i> <ul style="list-style-type: none"> ▪ Department of Physics, CUSAT, Cochin ▪ Department of Instrumentation, CUSAT, Cochin ▪ Department of Optoelectronics, University of Kerala ▪ Department of Physics, CMS College, Kottayam ▪ Department of Physics, SB College, Changanassery |
| 3. | Dr N V Unnikrishnan | <ol style="list-style-type: none"> 1. Reviewer of the following journals 2. Journal of non crystalline solids 3. Materials letters 4. Journal of analytical and applied pyrolysis 5. Journal of luminescence 6. Physica b: physics of condensed matter 7. Optical materials 8. Materials chemistry and physics 9. Advances in chemistry and material science 10. Materials science and engineering 11. Applied surface science 12. International journal of biochemistry and biotechnology 13. Journal of modern optics 14. Journal of the chemical society of Pakistan 15. Journal of optoelectronics and advanced materials 16. The journal of physical chemistry |



| | | |
|----|---------------------------|--|
| 4. | Dr. Nandakumar Kalarikkal | Reviewer of the following journals <ul style="list-style-type: none"> ▪ RSC Advances ▪ Journal of Sol-Gel Science and Technology ▪ Journal of Materials Science ▪ Journal of Magnetism and Magnetic Materials |
| 5. | Dr Cyriac Joseph | Reviewer for Journal of Crystal Growth <ul style="list-style-type: none"> ▪ Journal of Physics and Chemistry of Solids ▪ Journal of Luminescence ▪ New Journal of Chemistry ▪ Thin Solid Films Spectrochimica Acta |
| 6. | Dr P R Biju | Reviewer of the following journals <ul style="list-style-type: none"> ▪ Journal of Luminescence ▪ Journal of electronic Materials ▪ Journal of Alloys and Compounds |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):

| | |
|-------------------------------------|----|
| No of Refresher courses attended | 6 |
| No of Orientation Programs attended | 2 |
| No of Faculty Development Programs | 1 |
| No of Workshops attended | 16 |

28. Student projects

| | |
|---|-----|
| Percentage of students who have done in-house projects including inter-departmental projects | 20% |
| Percentage of students doing projects in collaboration with other universities / industry / institute | 80% |

29. Awards / recognitions received at the national and international level by

a) Faculty

| Name of the faculty | Details |
|---------------------|-------------------------|
| Dr. Antony | UGC research award 2015 |

b) Doctoral / Post-doctoral fellows –

| Doctoral / Post-doctoral fellows | Details |
|---|---|
| Rithesh Raj | Best Oral presentation by at the National seminar on Advances in Crystal Growth and Nanotechnology held at CSM College Kottayam during Jan 15-16, 2016 |
| Raneesh B | Second position in poster presentation, The second international conference on Optoelectronic materials and Thin films for Advanced Technology (OMTAT 2013), Cochin University of Science and Technology, Cochin, January 3-5, (2013) |
| Ms Rehana P Ummer, | Best award for oral presentation, 15 th National Symposium on Material Science , IIT Bombay, Mumbai May 18-24 (2015) |
| Ann Mary K A | Best paper Award in Physical Science in the 26th Kerala Science Congress held at Kerala Veterinary and Animal Science University Wayanad during 28 to 31 Jan 2014 |
| Prasanth S | Best poster Presentation award to, in the national seminar on Photonics and Its application held at University of Kerala during Dec 9-11 2015 |
| Remya Mohan | Best Poster Award for at the National Seminar on nano-scale Science & Technology, Devamatha College, Kuravilangad 2015 |
| El Hadji Mamour Sakho | Best Poster Award at the International Conference on Advanced Materials for Power Engineering 2015 conducted by Wroclaw Technical University & Mahatma Gandhi University 2015 |
| Robin Agustine | <ol style="list-style-type: none"> 1. International Conference on membranes, organized by the Centre for Environment Education and Technology (CEET), Advanced Centre of Environmental studies and sustainable Development (ACESSD), Mahatma Gandhi University, Kottayam. Best poster award 2. Biomedicine 2014, National seminar organized by Pushpagiri Research centre, Tiruvalla, Kerala, May 3rd, (2014). Obtained Best poster award 3. Second International Conference on Nanomaterials: Synthesis, Characterization and Application. Organised by Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, January 12-15 (2012) Obtained Second prize in poster presentation 4. International conference on Tissue Engineering and Regenerative medicine (ICAPM_2013), Organised by centre for excellence in tissue engineering, National Institute of Technology, Rourkela, Odisha, November 15-17 (2013) Obtained Best award for Oral presentation |



c) Students – Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any:

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|------|---|---|---|
| 2010 | National workshop on Materials characterisation by diffraction Methods, M G University Kottayam, February 24-25, 2010 | UGC-SAP | Dr.Santhosh Kumar PN Dr. Manoj N, IIT Madras |
| 2011 | National workshop on Mathematical Methods in (Astro)Physics, M G University Kottayam, March 23-25, 2011 | MGU & IRC, Kochi | Dr. Gayatri Vivekanand Prof.M Sabir, CUAAT |
| 2012 | National Seminar on Advanced Materials, SPAP M. G. University, January 19-20, 2012. | UGC SAP | Prof. CP Grija Vallabhan, Prof. VPN Nanmburi CUSAT |
| 2013 | National seminar on 100 years of crystallography, 2013, SPAP , Mahatma Gandhi University, Kottayam. | MGU | Prof. P kumardhas. Periyar University |
| 2014 | 1. IYCr 2014, funded by Kerala State Council for Science Technology and Environment, Govt. of Kerala 2. National seminar on photonics June 26 (2014) 3. International Conference on Plasma & Nanotechnology and 29th National Symposium on Plasma Science & Technology 8-11 Dec 2014 (PLASMA-2014) 4. Inculcate Science Propagation Program by Govt. of Kerala, 27 Sep 2014 | KSCSTE MGU BRNS KSCSTE Gov. Of Kerala | Prof. MRN Murthy IISC Bangalore Dr. Reji Philip,RRI, Bangalore Dr. PK Suresh, Central University Hyderabad Pathamasree Dr. PI Jhone, Former Director IPR |
| 2015 | 1. Seminar on “The Hunt for the Blue LED”-SPAP, 14, October, 2015 2. Seminar on Piezoelectric Thin Films – Influence of film texture for MEMS. SPAP, 18 June 2015. | MGU MGU | Prof. NV Unikrishnan Dr. S Anil Kumar IISC, Bangalore |

31. Code of ethics for research followed by the departments:

Codes of ethics are adhered to by the Department. Research papers and dissertations are cleared through software for checking plagiarism. Necessary licensed software for Mathematica, Matlab, Windows etc are made available for the students by the department in addition to free and Open Source Software. We follow good laboratory practices in the matter of disposal of waste and dangerous materials.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Ph.D | 33 | 16 | 17 | 100 % | 100 % |
| MPhil | 367 | 15 | 35 | 100 % | 100 % |
| MSc | 2340 | 22 | 77 | 91% | 96% |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same University | % of students from other Universities with in the state | % of students of students from Universities from Outside state | % of students of students from other countries |
|---|--|---|--|--|
| Ph.D | 47% | 30% | 20% | 3% |
| M Phil | 75% | 20% | 5% | Nil |
| M Sc. | 30% | 70% | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:**2010-16**

| SET/SLET | NET | GATE | State PSC |
|----------|-----|------|-----------|
| 01 | 10 | 15 | 07 |

35. Student progression

| Student progression | Percentage against enrolled |
|---------------------|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | 20% |



| | |
|---|-------------|
| PG to Ph.D. | 30 % |
| Ph.D. to Post-Doctoral | 10 % |
| Employed Campus selection Other than campus recruitment | Nil 50 % |
| Entrepreneurs | Nil |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|---|----|
| Of the same university | 43 |
| Of other universities within the State | 28 |
| Of universities of other States | 29 |
| Of universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|---|
| a) Library | Yes, 4755 |
| b) Internet facilities for staff and students | Yes |
| c) Total number of class rooms | 4 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | 3 |
| f) Research laboratories | 13 <ul style="list-style-type: none"> • Synthesis Lab • Characterization and testing lab • Advanced material Lab • Thin film Physics • Biomolecule • Plasma Physics • Sol-Gel Lab • Solar Physics • Crystalline Materials • Optoelectronics Lab • High computing Lab • Crystallographic Lab |

39. List of doctoral, post-doctoral students and Research Associates**a) from the host institution/university :**

| Name of Guide | Name of Scholar | Post-doctoral |
|----------------------------------|---|----------------------|
| Dr C Sudarsanakumar | Vineeshkumar P V Prashanth S Haris P Mary Varghese Aparna P | -- |
| Dr. Nandakumar KalaKalarikkal | Parvathy N Ann Rose Abraham Rehana P Ummer (<i>Awarded</i>) | -- |
| Dr Cyriac Joseph | Sisira S Vimal G(<i>Awarded</i>) Kamal P Mani(<i>Awarded</i>) | -- |
| Dr C Venugopal | Sreekala G Manesh Michael Anu Varghese Savithri Devi | -- |
| Dr P R Bijju | Viji Vidyadharan(<i>Awarded</i>) Remya Mohan P | -- |
| Prof. N V Unikrishanan | Sajna M.S Prakashan V. P | -- |



b) from other institutions/universities :

| Name of Guide | Name of Scholar | Post-doctoral |
|----------------------------------|---|------------------------|
| Dr C Sudarsanakumar | Rithesh Raj D Riju K Thomas | -- |
| Dr. Nandakumar KalaKalarikkal | Anshida Mayeen El Hadji Mamour Sakho (Awarded) | -- |
| Dr Cyriac Joseph | Dinu Alexander Kukku Thomas Linchu Ann Jacob Sanu Mathew Simon | -- |
| Dr C Venugopal | Sijo Sebastian | --- |
| Dr P R Biju | Anns George Saritha K Jose Sreeja E Subash Gopi | --- |
| Prof . N V Unikrishanan | Rani George Manju Gopinath | Dr. Anoop Dr . Gejo |
| Dr. S Antony | Akhila J C Kumar | -- |

40. Number of post graduate students getting financial assistance from the university: 23

Mention the e grants students No (2010-16)

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. The Faculty Council assessed that to combat the shortage of faculty it would be good to develop our own MOOCs for teaching purposes. The suggestion which came up from one of the faculty was put up in the Faculty Council and after thorough discussion of the pros and cons a decision to go ahead with the planning was made. It was proposed to enter into new MoUs with national / international institutions for more effective implementation of the same and conduct brain-storming sessions for settling the details.

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. Discuss the matter in the department council and suggest appropriate measures |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes. Discuss the matter in the department council and suggest appropriate measures |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Yes. The department council regularly discuss the feedback from Alumni and design future academic strategies accordingly |

43. List the distinguished alumni of the department:

| Sl No. | Name | Current Position | Remarks |
|--------|---------------------------|--|---|
| 1. | Dr Rahul R Nair | Professor of Material Physics and Fellow of Royal Society Condensed Matter Physics Group, University of Manchester and a Royal Society University Research Fellow. | Member in the Research team of Prof Andre Geim who won the Nobel Prize in Physics for work with Graphene. He has been awarded the Moseley Medal & Prize for Early Career Researchers by the Institute of Physics. |
| 2. | Prof. Ajith Parameshwaran | Associate Professor, International Centre for Theoretical Sciences TIFR. | Detection of gravitational waves. Breakthrough 1million US\$ Prize in Fundamental Physics awarded to the LIGO Team for detection of gravitational waves. |
| 3. | Dr Gin Jose | Chair in Functional Materials at the University of Leeds | Developed a small device with low- powered lasers to measure blood glucose levels without penetrating the skin. It could give people a simpler, pain-free alternative to finger pricking. |
| 4. | Dr G Ajith Kumar | Post-doctoral fellow, University of Texas, San Antonio, USA | Recipient of SPIE Green Photonics Award for work on "Infrared excited Yb: Er: Y ₂ O ₂ S phosphors with intense emission for lighting applications" |
| 5. | Dr Pramod Gopinath | Director, International School of Photonics, Cochin University of Science & technology | |
| 6. | Dr K N Narayanan Unni | Director, Photochemistry Laboratory NIIST (CSIR) Trivandrum | |
| 7. | Dr Naslim Neelamkodan | EACOA Fellow at Academia Sinica Institute of Astronomy and Astrophysics (ASIAA) | discovery of the most Zirconium rich Star till date |



| | | | |
|-----|-------------------|---|--|
| 8. | Dr Harsha S Kumar | Manitoba University, Canada | |
| 9. | Dr Vinu Vikram | Kavli Institute for Cosmological Physics as KICP Associate Fellow. | |
| 10. | Joji Joykutty | Intellectual Property (IP) Analyst at General Electric Global Research Center in Bangalore | |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

1. Talk by John Philip Head SMARTS IGCAR Kalpakkam, TN 'Light and the Nano World' 25th Feb 2016
2. Dr A M Vinodkumar Calicut University Fusion : Quest for Super Heavy Elements 6 April 2016
3. Radio Astronomy Data & Its Analysis by Rabi Akkiba Angiras Member SKAIC Science Working Group 11 Jan 2016
4. Einstein Lecture Series on Gravitational Waves partially funded by ICTS TIFR Bala Iyer Feb 2nd 2016
5. Talk by Dileep Karanth University of Toledo, Erudite Lecture on Pseudopotential studies of nanowires and nanorings September 28 2015
6. Infosys Science Foundation Lecture by Prof G Ravindra Kumar Extreme Light Extreme States 29 March 2016

45. List the teaching methods adopted by the faculty for different programmes:

Power point presentations, Problem solving session, interactive sessions, suggested online material, abstract / quantitative reasoning training

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Assessment through internal test, seminars, assignments and examinations

47. Highlight the participation of students and faculty in extension activities

1. Visiting Charity institution and financial assistance through donation
2. Cleaning the department and premises in connection with Swachh Bharath Yojana
3. Faculty contribute to science blogs in the regional language
4. Faculty contribute to programs of the All India Radio as well as visual media in both English as well as the Regional Language aimed at raising the scientific temper of the nation
5. Faculty guide student projects at the national level in KVPY, IISER and

NISER summer programs

6. Faculty guide students from affiliated colleges in their M Sc course projects

48. Give details of “beyond syllabus scholarly activities” of the department:

- Students are encouraged to participate and present work in Workshops and Schools which train them in advanced methods related to the contemporary research endeavors of the nation.
- Providing training in scientific instruments.
- Students are participating in Quiz completion conducted by other institutions and students are participating in competitive cultural programs.
- Students are encouraged to give seminars on topics of their own choice of current and / or historical interest.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The department has made many meaningful contributions to the field of Materials Science, Nanoscience, Materials for Medical Applications, Quantum Optics, Photonic Materials, Crystalline materials, Magnetic Materials, Molecular Basis of the Therapeutic Properties of Biological Materials, Plasma Physics, Solar Physics and in development in Astronomy & Astrophysics. The advancements have been recorded in more than 200 publications and chapters in Books. Contributions to Science Development have gone into the Detailed Science Cases and Reports of Working Groups for telescopes in the planning stage wherein India is a participant.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength

- Trained and research oriented technical support.
- Funding support from National State and Internal agencies.
- Variety and scope of the fields of research.
- Very good organizational work culture.
- Very good sophisticated instrument facility.

Weakness

- The Faculty group is small due to unfilled posts.
- Students at entry have little training in abstract / quantitative reasoning.
- There is pressure on the student community due to paucity of jobs suited to their talents and qualifications.



- Difficulties in carrying the fruits of research to product level due to lack of support for product development.

Opportunities

- There is scope for attracting world class faculty to the unfilled posts.
- Training in abstract / quantitative reasoning will put them head and shoulders above their compatriots.
- There is scope for exploring ways and means to broaden the scope of physics courses to garner more job options.
- Tie-ups with industry / technical training institutions as a means for laying the ground work for product development.
- There is scope for promoting training programs in abstract quantitative reasoning.

Challenges

- Development of training modules for students to develop global competitiveness.
- Exploring means to alleviate economic pressures on students that quite often prevent bright students from entering a research career.
- Social facilitation for women to effectively take up academic / research careers without compromising on their family life.
- Generating more academic / research related jobs which currently are few and far between the higher the qualification of the job-seeker.

52. Future plans of the department.

- Intensifying research activities in the field of Nano-materials for biomedical applications.
- Offering a new courses in developing fields in physics at MSc / MPhil level.
- Submission of new project proposals for funding in various socially relevant research schemes.
- Convening conferences in joint collaboration with national and international institutions.
- Intensifying international collaboration leading to MoUs that facilitate student exchange.
- Exploring technologically useful optical and magnetic materials.
- Theoretical investigations of level widths in photonic materials.
- Inter -departmental efforts with the School of Computer Sciences for technical and scientific training of students in evolving methodologies for the computer science and computer application related components of the work flow of the Indian contribution to the Square Kilometre Array –the

largest Radio Telescope in the world, a multi-national initiative of which India is a member, with the DAE as signatory.

- Establishing the molecular basis of the therapeutic effectiveness of Ayurveda
- Exploring plasma wave instabilities in multi-ion space plasmas.



SCHOOL OF SOCIAL SCIENCES

| 1. | Name of the Department | : | School of Social Sciences | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|---|--|------------|--------|-----------------------------|-----------|---|---|---|----------------------|---|---|---|------------------|---|---|---|--------|---|---|---|
| 2. | Year of establishment | : | 1989 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Sciences | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <ul style="list-style-type: none"> MA. History MA Anthropology MPhil General Social Sciences MPhil Social Transformation and Empowerment MPhil Human Ecology and Natural History Ph.D Social Sciences | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | | From the inception of the School it has been practicing interdisciplinary research and teaching. | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | No | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | No | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | | Semester (Choice Based Credit System) | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | | M.A. students audit open courses offered by other Schools of the university | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | <table> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual(including CAS & MPS)</th></tr> <tr> <td>Professor</td><td>1</td><td>0</td><td>0</td></tr> <tr> <td>Associate Professors</td><td>2</td><td>2</td><td>2</td></tr> <tr> <td>Asst. Professors</td><td>4</td><td>2</td><td>2</td></tr> <tr> <td>Others</td><td>3</td><td>3</td><td>3</td></tr> </table> | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | 1 | 0 | 0 | Associate Professors | 2 | 2 | 2 | Asst. Professors | 4 | 2 | 2 | Others | 3 | 3 | 3 |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | 4 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| Others | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.

| Name | Qualification | Designation | Specialization | No. of years of Experience | No. of Ph.D./MPhil. Students guided for the last 6 years |
|--------------------|---------------|---------------------|---|----------------------------|--|
| Dr.Raju S | Ph.D | Associate Professor | Economic Anthropology Interdisciplinary social science research methodology, all fields of Social Sciences | 25 | PhD=9 M.Phil=10 |
| Dr. P. Sanal Mohan | Ph.D | Associate Professor | Ethnography, Social History, Subaltern Studies, and all fields of social sciences | 23 | PhD=3 M.Phil=8 |
| Smt. Radhika P. | M.Phil | Assistant Professor | Historical sociology, gender studies, Historiography, All fields of social sciences | 20 | PhD=3 M.Phil=10 |
| Dr. Rajesh Komath | Ph.D | Assistant Professor | Development Studies, Folkloristics, Social theory and all fields of social sciences | 10 | PhD=3 M.Phil=11 |
| Dr.Girishkumar TS | Ph.D | Professor | Philosophy | Retired May 2016 | |
| Dr.K T Ram Mohan | Ph.D | Professor | History of Development, Political Economy, Economic History, Global Commodity Chains | | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Prof. M.G.S. Narayanan;
- Prof. Keshavan Veluthat.

13. Percentage of classes taken by temporary faculty- Programme-wise information.

| | |
|--|------|
| M.A. (History) | 15% |
| M.A. (Anthropology) | 50% |
| M.Phil (General Social Sciences) | 15%; |
| M.Phil (Social Transformation and empowerment) | 25%; |
| M.Phil (Human Ecology and Natural History) | 25% |
| PhD (all fields of social sciences) | 10% |

14. Programme-wise Student Teacher Ratio:

| | |
|-------|-----|
| PG | 4:1 |
| MPhil | 4:1 |
| Ph.D | 6:1 |

15. Number of academic support staff (technical) and administrative staff: Sanctioned, filled and actual:

| | Sanctioned | Filled | Actual |
|-----------------------------|------------|--------|--------|
| Technical | 1 | 1 | 1 |
| Administrative Staff | 4 | 2 | 2 |

16. Research thrust areas as recognized by major funding agencies:

- History of Development
- Political Economy
- Economic History
- Global Commodity Chains
- Anthropology
- Economic Anthropology
- Human Ecology
- Subaltern Studies
- South Indian Temples.

17. Number of faculty with ongoing projects from a) national- b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project – wise.

a) national

| Sl. No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|--------------|--|---------|---|-------------------------|
| 1 | “Self-Help Groups in Kerala: A Study in Economic Sociology” | 2015-17 | UGC, New Delhi | 3.5 |
| 2 | “Unfavorable Inclusion of Dalits in Higher Education: A Study on the Linkages of Colonies, Schools and Colleges in Kerala” | 2014-15 | Kerala State Higher Education Council, Government of Kerala | 1 .00 |
| 3 | “TheyyamKettu of Kerala: The Economy and Labour of Performance” | | ICSSR, New Delhi | 9 .00 |
| 4 | Archives sans Borders MGU | 2016-17 | Government of Kerala | 23.70 |
| 5 | ABILITY Project for Physically Challenged and Visually Impaired | | Government of Kerala | 83.00 |
| TOTAL | | | | 120.20 |

b) international: Nil

c) Total grants received: ₹ 120.20 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration : Nil

b) International collaboration :Nil



19. Departmental projects funded by DST-FIST;UGC-SAP/CAS,DPE;DBT, ICSSR,AICTE, etc; total grants received:

| Sl No. | Title of the project and period of grant | Funding agency | Duration | Budget Outlay in Lakhs (₹) |
|--------|--|-------------------------------------|----------|----------------------------|
| 1 | Evaluation of Ecodevelopment Programme at Periyar Tiger Reserve), (From March, 2009 April, 2011) | Periyar Foundation, PeriyarThkkady. | 2.Years | 6.20 |

Total grants received: ₹ 6.20 Lakhs

20. Research facility/Centre with

- State recognition : Yes
- National recognition : Yes
- International recognition : No

21. Special research laboratories sponsored by created by industry or corporate bodies:
Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 09 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 26 |
| 4. | Chapters in Books | 18 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 4 |
| 7. | Books authored without ISBN | 5 |
| 8. | Articles in popular publications | 16 |
| 9. | Total | 79 |

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences

Directory, EBSCO host, etc.): Nil

- Citation Index – range / average : Nil
- SNIP : Nil
- SJR : Nil

23. Details of patents and income generated: NIL

24. Areas of consultancy and income generated : NIL

25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad :

Abroad

- Centre for Advanced Study of India, University of Pennsylvania; Philadelphia
- Max Planck Institute for the Study of Religious and Ethnic Diversity, Germany
- Goldsmiths, University of London
- Southern Methodist University, Texas

26. Faculty serving in

National committees b) International committees c) Editorial Boards d) any other (please specify)

a) National committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Dr. P. Sanal Mohan: | <ul style="list-style-type: none"> • Member, Governing Council, Madras Institute of Development Studies, Chennai • Member, Governing Body, Kerala Council for Historical Research, Kerala • Member, Governing Body, CREST |

b) International committees - Nil

c) Editorial Boards - Nil

d) any other (please specify) -Nil

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs):

Dr. Rajesh Komath

- UGC sponsored Orientation Course- Two

28. Student projects

| | |
|--|-----|
| Percentage of students who have done in-house projects including inter-departmental projects: | 25% |
| Percentage of students doing projects in collaboration with other universities /industry / institute | Nil |



29. Awards/recognitions received at the national and international level by

- Faculty : Dr. Raju S, UGC Research Award (One)
- Doctoral / post-doctoral fellows : Nil
- Students : Nil

30. Seminars/Conferences/Workshops organized and the source of funding(national/international) with details of outstanding participants, if any,

| Year | Seminars/ Conferences/Workshops | Source of funding | Outstanding participants |
|------|--|--------------------------|---|
| 2010 | One International Conference Associated with School of International Relations (MGU) | MGU | |
| 2011 | Co-ordinated three University level (2010-11, 2012) and two State level ACQUIRE UG Scholarship programme | Govt. of Kerala | |
| 2012 | Co-ordinated two State level PG Workshops (AQUIRE). | Govt. of Kerala | |
| 2013 | Three Scholar in Residence Programmes | Higher Education Council | GayathriSpivak, RomilaThapar, Partha Chatterjee |
| 2015 | Five day Social Science Methodologies Workshop | MGU | Prof. Ahmed Nissar |
| 2016 | M. Govindan Memorial Lecture on 'Post Humanism and Social Sciences' | | Dr George Varghese K. |
| 2016 | Five day workshop on Assistive Technologies for Visually Impaired Students doing Social Sciences | MGU | |

31. Code of ethics for research followed by the departments:

The School take out most care to avoid plagiarism in research publication and Ph.D. thesis. All the software being used for research are original

32. Student profile programme-wise. (year wise)

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| M.A | | | | | |
| 2010-11 | | 1 | 9 | 100% | 100% |
| 2011-13 | 56 | 5 | 9 | 100% | 89% |
| 2012-14 | 37 | 7 | 8 | 100% | 88.5% |

| | | | | | |
|----------------|-----|---|----|------|-------|
| 2013-15 | 68 | 3 | 11 | 100% | 100% |
| 2014-16 | 148 | 4 | 9 | 100% | 100% |
| 2015-17 | 130 | 6 | 4 | 100% | 100% |
| M.Phil: | | | | | |
| 2011-12 | 58 | 7 | 10 | 100% | 90% |
| 2012-13 | 81 | 5 | 10 | 100% | 90% |
| 2013-14 | 90 | 4 | 11 | 100% | 90.1% |
| 2014-15 | 60 | 2 | 14 | 100% | 100% |
| 2015-16 | 51 | 4 | 8 | 100% | 100% |

33. Diversity of Students

| Name of the Programme | % of Students From The Same University | % of Students From Tothor University | % of Students From Universities Outside The State | % of Students From Other Countries |
|-----------------------|--|--------------------------------------|---|------------------------------------|
| PG | 20% | 80% | 0 | 0 |
| M.Phil | 18% | 82% | 0 | 0 |
| PhD | 40% | 60% | 0 | 0 |

34. How many students have cleared Civil Services and Defense Services examination, NET, SET, GATE and other competitive examinations? Give details category-wise –

- NET : 7
- SET : 5

35. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | NA |
| PG to MPhil. | 18% |
| PG to Ph.D. | 25% |
| Ph.D. to Post- Doctoral | Nil |
| Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | 25 |
| Entrepreneurs | Nil |



36. Diversity of Staff

| Percentage of faculty who are graduates | |
|--|----|
| Of the same university | 0 |
| From other universities within the state | 50 |
| From universities from other State from | 50 |
| Universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil; Ph.D, DSc and D.Litt. during the assessment period: One

| Name of the faculty | Awarded M.Phil., Ph.D., D.Sc. and D.Litt |
|---------------------|--|
| Dr. Rajesh Komath | Ph.D |

38. Present details of departmental infrastructural facilities with regard to

a) Library:

Total Number of Books :12398; CDs : 179.

There is a reading hall and space for reading inside the stack room and computers are also available in the reference and stack rooms for ready access of the library users.

b) Internet facilities for staff and students: Available for both

c) Total number of class rooms: 2 class rooms and two seminar halls

d) Class rooms with ICT facility: Yes

e) Students' laboratories: Library

f) Research laboratories: NA

39. List of doctoral, post- doctoral students and Research Associates

a) From the host institution/university

Doctoral Students: 48

| Sl.No | Name of the Student | Year |
|-------|---------------------|------------|
| 1. | Anisha K A | 2011 batch |
| 2. | Manjima M V | |
| 3. | Sharath P | |
| 4. | Sreesha K | |
| 5. | D S Bendas | 2012 batch |
| 6. | Binu Raj | |
| 7. | Elizabeth Abraham | |
| 8. | Akhila P Nair | |
| 9. | Roopesh OB | |



| | | |
|-----|-----------------------|------------|
| 10. | Prajeesh Bhaskaran | |
| 11. | Soumya PJ | |
| 12. | Sivankutty VS | |
| 13. | Sharath P | |
| 14. | Arunkumar CP | |
| 15. | Shajitha C | 2013 batch |
| 16. | Jasimudeen S | |
| 17. | Soumya P Markose | |
| 18. | Vimal Kumar | |
| 19. | Harish D | |
| 20. | Indira B | |
| 21. | Anchana A R | |
| 22. | Nithin K | |
| 23. | Vipin Kumar | |
| 24. | Binoy A A | |
| 25. | Nancy Liza Thomas | |
| 26. | Anish Mathew | |
| 27. | Rajitha P P | |
| 28. | Prasanth P | |
| 29. | Anil P C | |
| 30. | Sathi Kumari Amma V | 2015 batch |
| 31. | Sajitha V | |
| 32. | Gilu G Ettaniyil | |
| 33. | Santhosh K N | |
| 34. | Anish I | |
| 35. | Saritha M S | |
| 36. | Sabu K | |
| 37. | Susan Chandappilla | |
| 38. | Girish Kumar V | |
| 39. | Anat Suman Jose | |
| 40. | Harish Babu | |
| 41. | Radhakrishna Pillai C | |
| 42. | Diana Mathews | |
| 43. | Varughese K C | |
| 44. | Rahul B R | |
| 45. | Sooraj M V | 2016 Batch |
| 46. | Dinumon | |
| 47. | Aswathy K V | |
| 48. | Shynu V C | |



Post-Doctoral:1 (Dr. Alex Mathew)

**40. Number of post graduate students getting financial assistance from the university.
Period 2011-2016**

| | |
|---------|-------|
| Egrants | 81 No |
|---------|-------|

41. Was any need assessment exercise undertaken before the development of new programme(s)? Yes/If So, highlight the methodology. :

Yes, the Faculty Council evaluates the need for new programmes before its inception.

42. Does the department obtain feedback from

| | |
|--|---|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback | Yes, to improve the curriculum and pedagogy in general |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes, to improve the administrative facilities and efficiency |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Yes, to retrospect the relevance of the courses offered and points to modernising governance. |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|---------------------------|--|
| 1. | Dr. P. K. Michel Tharakan | Former Vice-Chancellor of Kannur University |
| 2. | Sujith Kumar Parayil | Assistant Professor, Centre for Media Studies, Jawaharlal Nehru University |
| 3. | Bindu Menon | Associate Professor, Lady Sriram College, New Delhi |
| 4. | Justin Mathew | Assistant Professor, Hansraj College, University of Delhi |
| 5. | Susan Thomas | Assistant Professor, Sree Shankaracharya Sanskrit University |
| 6. | Amruth M. | Scientist, Kerala Forest Research Institute |
| 7. | Suresh M., | Assistant Professor, Tata Institute of Social Sciences, Bombay |
| 8. | Saji M Kadavil, | International Consultant, CSR and Business Development, New Delhi |
| 9. | J. Devika, | Associate Fellow, Centre for Development Studies, Trivandrum |
| 10. | S. Maya | Assistant Professor, Kerala Varma College, Thrissur |

44. Give details of student enrichment programmes (Special lectures/workshops/seminar)

Involving External Experts.

- Prof. M.G.S. Narayanan on Trade Routes of Ancient India (Three days)
- Prof. K.N. Ganesh on Doing History (One day)
- Prof Nissar Ahmed, on Research Methodologies (Five days)

45. List the teaching methods adopted by the faculty for different programmes: Class Room Lectures, Special Lecture, Tutorials, Written Assignments, Archaeological excavations, social field work, ICT

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :Recurring monitoring, presentations of papers, written examination, participation in discussions, interventions during seminars

47. Highlight the participation of students and faculty in extension activities:

Building Ethno-Archaeological Museum, Archaeological excavations, visiting the heritage sites, Nature camps, projection of films

48. Give details of “beyond syllabus scholarly activities” of the department:

All research activities of School of Social Sciences go beyond disciplines and constitute objects for investigation such that they cannot be put within the rubric of syllabus. Well conserved archaeological Museum with objects belonging to megalithic period on wards.

49. State whether the programme/department is accredited/ graded by other agencies? If yes, Give details. : Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied: Interdisciplinary, Foundation course on Social Science- Concepts and Methodologies, Furthered the frontier of Social Scientific research, theoretical inputs, introduced latest theoretical knowledge of society,

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Critical Theoretical Thinking,
- Ethno-Archaeological Museum
- Excellent Library for Social Science Research and learning
- ABILITY Station for enabling learning
- Combination of students belonged to different disciplines.

Weakness:

- Inadequate Faculty Strength
- Limited e-journal access
- Limited number of modern smart class rooms
- Absence of University bus service
- Interrupted power supply



Opportunities:

- There is ample opportunity for students having different backgrounds to perform high level research in the field of social science.
- Students are given possibility to work at the grass root level.
- Students have the opportunity participate in seminars/workshops/conferences of any social science disciplines/branches.
- Opportunity for the students to work in the ethno-archaeological museum of the School.

Challenges:

- Administrative challenges impeding responsiveness to the requirement of the academic community of the School, strengthening of the faculty positions, widening of the academic domain, acquire state of the art teaching aids such as smart class room to draw students from outside the State/Nation etc.

52. Future plans of the department.

- School intent to introduce new courses/programmes that attract international students with specific courses on Kerala since it is a unique entity for social investigation and knowing.
- To go beyond the existing paradigms and episteme of knowledge.
- Convert the existing SSS campus into a residential complex.
- Plans to perpetuate ABILITY project for physically challenged and visually impaired and to enrich its facilities.
- Create an outdoor ethno-archaeological park displaying and preserving both living and non-living traditions and heritage.
- Digitize the entire library and collecting source materials from various libraries and individual collections by making it an open source.

SCHOOL OF TOURISM STUDIES

| | | | | | | |
|-----|---|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | SCHOOL OF TOURISM STUDIES | | | |
| 2. | Year of establishment | : | 2010 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, The School is a part of Faculty of Management Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt.etc) | : | <ul style="list-style-type: none"> Master of Tourism Management (MTM) from 2010 to 2015- renamed as Master of Tourism and Travel Management (MTTM) from 2015 onwards as per UGC Circular. Ph.D.: From 2015 onwards | | | |
| 5. | Interdisciplinary programmes and departments involved | | (1)Tourism Studies, (2) Hospitality Studies and (3) Foreign Languages. The School has adopted interdisciplinary approach as a conceptual plank in framing of all its programmes | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions etc | | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | Nil | | | |
| 8. | Examination System | | Semester (Choice Based Credit and Semester System) | | | |
| 9. | Participation of the department in the courses offered by other departments | | Nil | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | | | |
| | | | Associate Professors | 2 | 1 | |
| | | | Asst. Professors | 2 | 0 | |
| | | | Others | 5 | 4 | - |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.

| Name | Qualification | Designation | Specialization | No. of years of Experience | No. of Ph.D./MPhil. Students guided for the last 6 years |
|-------------------|------------------------------------|---------------------|--|----------------------------|--|
| Dr. Robinet Jacob | MTA, PhD, IATA Standard & Advanced | Associate Professor | Aviation Management, Health Tourism, Sustainable Tourism | 20 years | 2 students awarded PhD, currently guiding 1 |

**12. List of senior visiting fellows, adjunct faculty, emeritus professors:
Adjunct Faculty- International & National:**

| Sl. No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|--------|--|---|---|
| 1. | Dr. Abey Kuruvilla, Associate Professor, University of Wisconsin-Parkside, USA | Adjunct Faculty | Cross cultural Understanding |
| 2. | Dr. Toney K Thomas, Associate Professor & Deputy Dean, Department of Tourism, Events and Recreation, Taylor's University, Malaysia | Adjunct Faculty | Destination Benchmarking |
| 3. | Dr. Vinayraj Mothiravally, Deputy Dean, Department of Hospitality Management, Taylor's University Malaysia | Adjunct Faculty | Hospitality Management |
| 4. | Dr. B George, Associate Professor, Madurai Kamaraj University, Madurai | Adjunct Faculty | Sustainable Tourism, Research Methodology |
| 5. | Dr. Sampad Kumar Swain, Professor, Dept of Tourism, Amarkantak Central University | Adjunct Faculty | Transport Management |
| 6. | Dr. R. Kannan, Associate Professor and Director, Avinashalingam University for Women, Coimbatore | Adjunct Faculty | Hospitality Management |
| 7. | Dr. Bindu V.T, Associate Professor and HOD, Avinashalingam University for Women, Coimbatore | Adjunct Faculty | Travel Geography |
| 8. | Dr. Siby P.S, Assistant Professor, Dept. of Tourism Studies, Pondicherry Central University, Puducherry | Adjunct Faculty | Logistics Management |
| 9. | Dr. Shyju P.J, Assistant Professor, Benaras Hindu University, Banaras | Adjunct Faculty | Aviation Management |

| | | | |
|-----|---|-----------------|--|
| 10. | Dr.Binoy T.A, Coordinator, Kuvempu University, Shimoga, Karnataka | Adjunct Faculty | Sustainable Tourism |
| 11. | Dr.Sibi P.S, Assistant Professor, Pondicherry University, Puducherry | Adjunct Faculty | Event Management |
| 12. | Dr.Sindhu R. Babu, Assistant Professor, Govt. College Manjeswar, Kasargode | Adjunct Faculty | Information Communication Technology for Tourism |
| 13. | Dr.Deleep D, Assistant Professor, GPM College, Manjeswar, Kasargode | Adjunct Faculty | Health Tourism |
| 14. | Dr. Sebastian George, Associate Professor, St. Thomas College, Pala | Adjunct Faculty | Research Methodology |
| 15. | Dr. P. PremKanna, Associate Professor, Hindustan College of Arts and Science, Coimbatore. | Adjunct Faculty | Hospitality Management |

13. Percentage of classes taken by temporary faculty- Programme-wise information.

| Programme | 2010-16 |
|--|---------|
| Master of Tourism and Travel Management (MTTM) | 80% |

14. Programme-wise Student Teacher Ratio;

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| MTTM | 8:1 |
| PhD | 2:1 |

15. Number of academic support staff (technical) and administrative staff: Sanctioned, filled and actual:

| Category | Number of Permanent Employees | Number of Vacant Positions | Number of permanent positions filled during the Year | Number of positions filled temporarily |
|----------------------|-------------------------------|----------------------------|--|--|
| Administrative Staff | 1 | Nil | Nil | Nil |
| Technical Staff | 1 | Nil | Nil | 1 |

16. Research thrust areas as recognized by major funding agencies:

The school offers Ph.D in the following key areas or thrust areas:

- Disaster Risk & Management in Tourism Destinations
- Tourism Impacts / Sustainable Tourism
- Tourism Product Development
- Tourism Industry sectoral Studies
- Accessible Tourism
- Destination Management
- Destination Benchmarking
- Adventure Tourism
- Culinary Tourism
- Accommodation Management
- Cultural Tourism

17. Number of faculty with ongoing projects from a) national- b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project – wise.

a) national

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹ in lakhs) |
|--------|---|---------|---|-------------------------|
| 1. | Making Kerala's Tourism destinations with minimal disaster risk: a geographic approach" | 2016-18 | (ICSSR) Indian Council of Social Science Research | 8.00 |

b) International: Nil

c) Total grants received: ₹ 8 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹ in lakhs) |
|--------|---|---------|---|-------------------------|
| 1. | "Social Media as an influencer among foreign tourists visiting India" | 2014-16 | Indian Institute of Tourism and Travel Management and Ministry of Tourism, Govt. of India | 1.00 |
| 2. | Discover Kottayam | 2014-16 | District Tourism Promotion Council (DTPC), Kottayam | 1.66 |

b) International collaboration

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹ in Lakhs) |
|--------|-----------------------------|-----------|----------------------|-------------------------|
| 1. | Project for Mango Languages | 2011 – 12 | Mango Languages, USA | 0.75 |

Total grants received: ₹ 3.41 Lakhs

19. Departmental projects funded by DST-FIST;UGC-SAP/CAS,DPE;DBT, ICSSR,AICTE, etc; total grants received:

| Sl.No. | Title of the Project | Funding Agency | Grant Received (Lakhs) | Duration |
|--------|------------------------|----------------|------------------------|-----------|
| 1. | State Annual Plan Fund | Govt of Kerala | 200 Lakhs | 2015-2016 |

Total grants received: ₹ 200 Lakhs

20. Research facility/Centre with

- State recognition : Yes
- National recognition : Yes
- International recognition : No

21. Special research laboratories sponsored by created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 6 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 7 |
| 4. | Chapters in Books | 1 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 5 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 200 |
| 9. | Total | 220 |



- Citation Index – range / average : 6
- SNIP – NA
- SJR –NA
- Impact Factor – range / average
- h-index: 1

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated : Three

Income generated

| Sl. No. | Item with Year | Income in Lakhs |
|--------------|--|-----------------|
| 1. | Preparation of Language training modules for Mango Languages, USA (2011 – 12) | 0.75 |
| 2. | Destination Development programme –Discover Kottayam for District Tourism Promotion Council (DTPC), Kottayam, 2015-16 | 1.66 |
| 3. | Implementing partner for Certified Tour Advisor (CTA) programme of District Tourism Promotion Council (DTPC),Ernakulam, 2015 | 0.20 |
| TOTAL | | ₹ 2.61 |

25. Faculty selected nationally/internationally to visit other

laboratories/institutions/industries in India and abroad: (national- 7, International- 5)

| Sl. No | Title of the Lecture / Academic session | Title of Seminar / Conference etc | Organised by | Whether International / National |
|-------------------------|---|---|--|----------------------------------|
| Dr.Robinet Jacob | | | | |
| 1. | Special Lecture on Health Tourism | Avinashilingam University, Coimbatore, 19 March 2012 | Avinashilingam University, Coimbatore, 19 March 2012 | National |
| 2. | Keynote Address in the National Seminar on The Prospects of Responsible Tourism in Developing Rural Areas | National Seminar on The Prospects of Responsible Tourism in Developing Rural Areas, 9-10 April 2013 | Department of Tourism, S.N Arts & Science College, Kumarakom | National |
| 3. | Special Lecture on Cultural Differences in Tourism | Pazhassi Raja College, Pulpally on 21 March, 2014 | Pazhassi Raja College, Pulpally on 21 March, 2014 | National |



| | | | | |
|-----------------|--|--|--|----------|
| 4. | Cross Cultural linkages and Tourism | G.A Pai memorial Govt. College, Manjeshwar, Kasargode, 29, 30 September, 2014 | G.A Pai memorial Govt. College, Manjeshwar | National |
| 5. | Emerging Trends in Health Tourism | SreeSankaracharya University of Sanskrit, Kalady, 13-14 February, 2014 | SreeSankaracharya University of Sanskrit, Kalady, 13-14 February, 2014 | National |
| Abin K.I | | | | |
| 6. | Resource personUGC sponsored national seminar on “Academic Plagiarism & Bibliographic Reference Management System” | Topic: <i>Effective Writing of Academic Articles</i> , (on August 13 th & 14 th -2014) | St Stephens College, Uzhavoor. | National |
| 7. | Resource person for UGC sponsored National seminar | Responsible Tourism 26 th February 2016. | St Xaviers college, Vaikom | National |

| S No | Title of the Lecture / Academic session/ Activity | Title of Seminar / Conference/ Institution etc | Whether International / National |
|-------------------------|---|---|----------------------------------|
| Dr.Robinet Jacob | | | |
| 1. | Research in the area of Social Media use among tourists visiting Kerala as well as comprehensive access audits for tourism destinations in Kerala, India. | University of Wisconsin-Parkside, Milwaukee, USA, July 2016 | International |



| | | | |
|----|---|---|---------------|
| 2. | Destination Branding through Community Involvement: A case study of 'Discover Kottayam' initiative from Kerala" | Conference of ICBTS International Sustainable Development Business and Tourism, Boston, USA, June 30 - July 1, 2016 | International |
| 3. | Role of Social Media in influencing Travel decision making among foreign tourists visiting Kerala | Annual conference of International Society of Travel and Tourism Educators (ISTTE), Charlotte, North Carolina, USA, October 15 - 17, 2015 | International |
| 4. | Barrier Free Tourism for Equitable and Sustainable Tourism Development and Management in Kerala | Annual conference of International Society of Travel and Tourism Educators (ISTTE), Detroit, Michigan, USA, October 17-19, 2013. | International |
| 5. | Product Attractiveness of Kerala House Boats In Promoting Tourism - A Performance Analysis | Annual conference of International Society of Travel and Tourism Educators (ISTTE), Miami, USA - 20 Oct -22 nd Oct, 2011 | International |

26. Faculty serving in

a) National committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Dr.Robinet Jacob | <ul style="list-style-type: none"> Subject Expert & Member, inspection committee for assessing fresh/ ongoing Major research projects (MRP), University Grants Commission, New Delhi, September, 2014. Project Co-ordinator for project sanctioned by Ministry of Tourism, Government of India through IITTM (Indian Institute of Travel and Tourism Management). Member, Staff Selection Committee, Avinashilingam University, Coimbatore, 19/11/2012. |

b) International

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1. | Dr. Robinet Jacob | <ul style="list-style-type: none"> Conference Chair in the Annual conference of International Society of Travel and Tourism Educators (ISTTE), Miami, USA - 20 Sept -22nd Oct, 2011 Editor & Content Developer for online Malayalam language & cultural studies for Mango Languages, a US company (2011) (www.mangolanguages.com). |

c) Editorial Boards

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1. | Dr. Robinet Jacob | <ul style="list-style-type: none"> Member, Editorial Board (August 2014 onwards – still continuing) of journals published by Horizon Research Publishing Corporation, Alhambra CA, USA |

d) any other

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Dr. Robinet Jacob | <ol style="list-style-type: none"> Member, Academic Council, M.G University (2015-18) Convener, Expert Committee (P.G) for Tourism Studies, M.G University (2015-18) Chairman, Board of Studies, School of Tourism Studies, M.G University (2014-2017) Member, Board of Studies for Commerce and Tourism, Mar Ivanios College, Thiruvananthapuram (2014-16) Member, Board of Studies in Tourism, Avinashilingam University, Coimbatore. (2015-17) Member, Board of Studies, Travel and Tourism, Kannur University. (2015-17) Member, Board of Studies in Heritage Tourism, Malayalam University (2015-17) Member, Board of Studies, Travel & Tourism, Calicut University. (2013-16) Formerly Convener, Expert Committee (U.G) for Tourism Studies, M.G University (2013-16) Formerly Member, Board of Studies, Travel and Tourism, Kannur University. (2013-16) Formerly Member, Board of Studies in Tourism, Avinashilingam University, Coimbatore (2013-15) |



| | | |
|--|--|---|
| | | <ol style="list-style-type: none">12. Formerly Convener, Expert Committee (P.G) for Tourism Studies (MTA), M.G University (2012-15)13. Formerly Chairman, Board of Studies, School of Tourism Studies, M.G University (2010-13)14. Formerly Member, Board of Studies, Tourism and Travel Management, Kuvempu University, Shimoga.(2010-13)15. Formerly Member, Board of Studies, Travel and Tourism, Kannur University. (2010-12)16. Project Co-ordinator for the Consultancy Project titled "Destination Kottayam" in which the School of Tourism Studies acts as technical partner for the project along with district administration of Kottayam (July 2015).17. Member, Pass Board of Examiners for II Semester MBA (Travel & Tourism), Cochin University, January 2011.18. Question Paper setter/ Examiner MBA (Tourism), 2011-12, Pondicherry University.19. Question Paper setter/ Examiner VI Sem. Career related B Com CBCSS exam. (Tourism), February 2013, Kerala University.20. Question Paper setter/ Examiner II Sem. Career related B Com CBCSS exam. (Tourism), April 2013, Kerala University.21. Conducted M Phil Viva Voce Examination at Christ University, Bangalore on 26 April 2013.22. Question Paper setter/ Examiner II & IV Sem. MTA exam, May 2013, Kerala University.23. Scrutiny of Question Papers of MTA examination, April 2013, Kerala University held on 29/10/2013.24. Question Paper setter/ Examiner I Sem. Career related B Com CBCSS exam. (Tourism), November 2013, Kerala University.25. Question Paper setter/ Examiner III Semester MBA (Tourism), November 2013, Pondicherry University.26. Question Paper setter for Kerala Public Service Commission, January 2014.27. Question Paper setter/ Examiner IV Semester MBA (Tourism), February 2014, Pondicherry University.28. Question Paper setter/ Examiner II Sem. Career related B Com CBCSS exam. (Tourism), April 2014, Kerala University.29. Question Paper setter/ Examiner II Semester MBA (Tourism), April 2014, Pondicherry University. |
|--|--|---|



| | | |
|--|--|--|
| | | <p>30. Question Paper setter/ Examiner IV Sem. Career related B Com CBCSS exam. (Tourism), April 2014, Kerala University.</p> <p>31. Scrutiny of Question Papers of Kerala Public Service Commission, July 2014.</p> <p>32. Question Paper setter/ Examiner IV Semester B Com CBCSS exam. (Tourism), July 2014, Kerala University.</p> <p>33. Question Paper setter/ Examiner III Sem. Career related B Com CBCSS exam. (Tourism), September 2014, Kerala University.</p> <p>34. Chairman, Board of Examiners, BTTM CBCSS First Semester Exams November 2014, Kannur University.</p> <p>35. Chairman, Board of question paper setters for I&III semester MTA Examination, December 2014, Calicut University.</p> <p>36. Evaluator for Viva Voce of MBAIHM and BIHM programmes of IGNOU, January/February 2015.</p> <p>37. Chairman, Board of Examiners, BTTM CBCSS Second Semester Exams April/May 2015, Kannur University.</p> <p>38. Question Paper setter/ Examiner for B Voc (Tourism and Hospitality Management) exam, June 2015, Kerala University.</p> <p>39. Question Paper setter/ Examiner I Semester B Com exam. (Tourism), September 2015, Kerala University.</p> <p>40. Chairman, Board of Examiners, BTTM CBCSS III Semester Exams November 2015, Kannur University.</p> <p>41. Chairman, Board of Examiners, BBA (TTM) CBCSS III Semester Exams November 2015, Kannur University.</p> <p>42. Question Paper setter/ Examiner III Semester MTA exam, November 2015, Mar Ivanios College (Autonomous).</p> <p>43. Question Paper setter/ Examiner VI Semester B Com CBCSS exam. (Tourism), January 2016, Kerala University.</p> <p>44. Question Paper setter/ Examiner for optional course for B Com exam, March 2016, Sacred Heart College (Autonomous).</p> <p>45. Question Paper setter/ Examiner III Semester MBA (Tourism) exam, February 2016, Kerala University.</p> <p>46. Question Paper setter/ Examiner II Semester MBA (Tourism and Travel) exam, March 2016, IITTM, Noida.</p> |
|--|--|--|



| | | |
|--|--|--|
| | | <p>47. Question paper setting for B Com degree Exam, Sacred Heart Autonomous College, Kochi, March 2016.</p> <p>48. Chairman, Board of Examiners, BBA (TTM) CBCSS IV Semester Exams April 2016, Kannur University.</p> <p>49. Chairman, Board of Examiners, BTTM CBCSS IV Semester Exams April 2016, Kannur University.</p> <p>50. Chairman, Board of Question Paper Setters, III Semester MBA (T&T) Exams April 2016, Kerala University.</p> <p>51. Chairman, Board of Examiners, BSc (Aviation and Hospitality) CBCSS II Semester Exams April 2016, Kannur University.</p> <p>52. Subject Expert, Selection Committee for the post of Lecturer in Tourism and Travel, Kerala Institute of Tourism and Travel Studies (KITTS), Thiruvananthapuram, February 2011.</p> <p>53. Subject Expert & Member, inspection committee for assessing fresh/ renewal applications for new colleges/courses, M.G University, May 2012</p> <p>54. Subject Expert & Member, inspection committee for assessing fresh/ renewal applications for new colleges/courses, M.G University, April 2013</p> <p>55. Subject Expert & Member, inspection committee for assessing fresh/ renewal applications for new colleges/courses, M.G University, May 2013</p> <p>56. Co-ordinator, Technical Committee, International Seminar on Science of Music, Mahatma Gandhi University, March 2015.</p> <p>57. Member, Core Team for ensuring teaching/ learning/academic administration / examination process in Off-Campus Centres, Mahatma Gandhi University, June 2015.</p> <p>58. Member, Executive Committee for the conduct of Faculty Development Programme, Mahatma Gandhi University, July 2015.</p> <p>59. Member, NAAC Co-ordination Committee, Mahatma Gandhi University, October 2015.</p> <p>60. Member, Mahatma Gandhi University Building Committee, March 2016.</p> <p>61. Member, Committee to Conduct training programs under Placement and Training Cell, Mahatma Gandhi University, March 2016.</p> |
|--|--|--|

| | | |
|--|--|---|
| | | <p>62. Member, Advisory Board of DDU KAUSHAL KENDRA, Mar Ivanios College, Thiruvananthapuram.</p> <p>63. Member, Advisory Committee for implementing the “Scholarship for Encouraging Young Talents in Literature” (THANMA), Mahatma Gandhi University, January 2016.</p> <p>64. Member, Permanent Cell to Combat Sexual Harassment, Mahatma Gandhi University, May 2016.</p> |
|--|--|---|

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs):

Organised-4

| Sl. No | Details |
|--------|--|
| 1. | One day Workshop on “Zotero” – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies in August 2014 |
| 2. | One day workshop on “Mendeley” – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 28 th April 2016 |
| 3. | Two day National Level Workshop on “Contemporary Research Methods and Software Packages” organized by School of Tourism Studies on 25 th and 26 th May 2016 |
| 4. | One day seminar on “How to avoid Academic Plagiarism” organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 30 th May 2016 |

Participated- 1

| Sl. No | Details |
|--------|---|
| 1. | Workshop on “Basic Statistical Methods and Introduction to Indian Databases” organised by Christ University, Trivandrum – Dec 29-30 2014. |

28. Student projects

| | |
|---|------------------------------------|
| Percentage of students who have done in-house projects including inter-departmental projects: | 100% (3 rd Semester) |
| Percentage of students doing projects in collaboration with other universities/ Industry / institute: | 100% (4 th Semester) |



29. Awards/recognitions received at the national and international level by - Faculty

| Name of the faculty | Details |
|---------------------|---|
| Dr. Robinet Jacob | <ul style="list-style-type: none"> Nominated as Member, Expert Committee for evaluating Major Research Projects (Tourism), University Grants Commission, New Delhi, July 2014 Reviewer for journal articles (August 2014 onwards – still continuing) published by Horizon Research Publishing Corporation, Alhambra CA, USA. Conference Chair in the Annual conference of International Society of Travel and Tourism Educators (ISTTE), Miami, USA - 20 Sept -22nd Oct, 2011 |

Awards/recognitions received at the national and international level by Doctoral / Post-doctoral fellows: Nil

Awards/recognitions received at the national and international level by Students: Nil

30. Seminars/Conferences/Workshops organized and the source of funding(national/international) with details of outstanding participants, if any,

| Sl. No | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|--------|--|-------------------|--|
| 1. | Two day National Level Workshop on Research Methodology and SPSS software on 25 th and 26 th May 2016 | MG University | <ul style="list-style-type: none"> Dr. B George, Madurai Kamaraj University Dr. S. Pushparaj, Madurai Kamaraj University Dr. Cecil Dalston, Associate Presidency College Chennai. |
| 2. | Jointly organized a one day Seminar on 'Literary Tourism' with Darsana Academy and DTPC – Kottayam and a workshop on 'Discover Kottayam' (tourism product branding) along with DTPC – Kottayam | DTPC, Kottayam | <ul style="list-style-type: none"> Mr. U.V Jose IAS, District Collector, Kottayam Dr. B. Vijayakumar, Principal, KITTS, Trivandrum |
| 3. | One day Workshop on "Zotero" – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies in August 2014 | KLA, Kottayam | |
| 4. | One day workshop on "Mendeley" – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 28 th April 2016 | KLA, Kottayam | |
| 5. | One day seminar on "How to avoid Academic Plagiarism" organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 30 th May 2016. | KLA, Kottayam | |

31. Code of ethics for research followed by the departments:

Research involves a great deal of cooperation and coordination among many different people and ethical standards promote the **values that are essential to collaborative work**, such as trust, accountability, mutual respect, and fairness. Ethical norms in research also help to build **public and official support** for research. The School of Tourism Studies gives high priority to research as one of its most important contributions to the society and the discipline. The School pursues a research ethos that promotes ethical responsibility in the quest for knowledge and the development, conservation and transfer of knowledge. The School focuses on endeavors to eliminate unacceptable practices within the research community. Researchers are encouraged to do original research work in their areas of specialization. Plagiarism is avoided at all cost (seminars are conducted on how to avoid plagiarism at regularly). School uses license software within the department for all purposes.

32. Student profile programme-wise.

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| MTM – 2011-13 | 63 | 10 | 10 | 100% | 100% |
| MTM – 2012-14 | 85 | 11 | 9 | 100% | 100% |
| MTM (2013-15) | 73 | 10 | 10 | 100% | 100% |
| MTM (2014-16) | 138 | 11 | 9 | 95% | 95% |
| MTTM (2015-17) | 126 | 12 | 8 | | |
| MTTM (2016-18) | 103 | 15 | 5 | | |

| Name of the Programme (refer to question no. 4) | % of Students from the same university | % of students from other universities within the State | % of students From universities outside the State | % of students from other countries |
|--|---|--|---|--|
| MTM (2011-13) | 65% | 30% | 5% | Nil |
| MTM (2012-14) | 30% | 65% | 5% | Nil |
| MTM (2013-15) | 60% | 35% | 5% | Nil |
| MTM (2014-16) | 65% | 30% | 5% | Nil |
| MTTM(2015-17) | 70% | 30% | Nil | Nil |
| MTTM (2016-18) | 45% | 55% | Nil | Nil |



33. Diversity of Students:

34. How many students have cleared Civil Services and Defense Services examination, NET, SET, GATE and other competitive examinations? Give details category-wise –

| Sl.No. | Year | Net/ JRF Qualified | Kerala PSC |
|--------|---------|--------------------|------------|
| 1. | 2010-12 | 2 | 1 |
| 2. | 2011-13 | 3 | 2 |
| 3. | 2012-14 | 3 | - |

35. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | - |
| PG to M.Phil. | 3 |
| PG to Ph.D. | 2 |
| Ph.D. to Post-Doctoral | 0 |
| Employed | |
| <input type="checkbox"/> Campus selection | 25 |
| <input type="checkbox"/> Other than campus recruitment | 54 |
| Entrepreneurs | 0 |

36. Diversity of Staff

| Percentage of faculty who are graduates | |
|--|----|
| Of the same university | 40 |
| From other universities within the state | 20 |
| From universities from other State | 40 |
| From Universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil; Ph.D, DSc and D.Litt. during the assessment period : Nil

38. Present details of departmental infrastructural facilities with regard to

- Library
 - Total area of the library(in Sq. Mts.) **-300 sq.ft**
 - Total seating capacity **- 20**
 - Working hours (on working days, on holidays, before examination, during examination, during vacation) **- 9 am – 5 pm (Saturday & Sunday Holiday)**
 - Books in library: **Books – 1464**

- a) Print (books, back volumes and theses)
 b) Average number of books added during the last three years-
 (Data upto May 30th 2016)

| | Existing | | Newly added | | Total | |
|---|----------|-------------|-------------|--------------------|-------|-------------|
| | No. | Value | No. | Value | No. | Value |
| Text Books & Reference Books | 1320 | 20,10,626/- | 107 | 4,82,263/- | 1427 | 24,92,889/- |
| e-Books | | | 9 | 10810/- | 9 | 10810/- |
| Journals (Magazine) | 26 | 1,10,000/- | | 33,694/- (renewal) | 26 | 1,43,694/- |
| e-Journals | | | | | | |
| Digital Database | 3 | 1,22,625/- | 3 | 66,549/- | 6 | 1,89,174/- |
| CD & Video | 116 | 40,47,76/- | 36 | 48,03,86/- | 152 | 8,85,162/- |
| Others (specify) Newspapers | 5 | 25,200/- | | 7200/- | 5 | 32,400/- |

• **Internet facilities for staff and students**

- Number of systems with individual configurations - 41
- Number of nodes/ computers with internet facility – 30
- Wi fi enabled classrooms and office

| | Total Computers | Computer Labs | Internet | Browsing Centres | Computer Centres | Office | Departments | Others |
|-------|-----------------|---------------|----------|------------------|------------------|--------|-------------|--------|
| Total | 41 | 01 | 41 | 01 | 01 | 04 | 04 | 11 |

- **Total number of class rooms**

Two class rooms; One seminar Hall; One Lab

- d) Class rooms with ICT facility

- All classrooms are enabled with wi-fi facility in the school.
- Adequate number of network ports is available in the School.
- Class rooms and seminar halls have been provided with wifi projectors and internet access.

- e) Students' laboratories :

The School has a well-equipped Laboratory for PG students and research scholars with Proprietary software including SPSS statistical software, Language learning software, Computerized Reservation Systems etc

- f) Research laboratories : Nil



39. List of doctoral, post- doctoral students and Research Associates

a) from the host institution/university:

| Name of Guide | Name of Scholar | Post-doctoral |
|-------------------|-----------------|---------------|
| Dr. Robinet Jacob | Jishnu P Thampy | Nil |

b) from other institutions/universities: **None**

40. Number of post graduate students getting financial assistance from the university.

| Year | No. of students |
|--------------|-----------------|
| 2011-2013 | 4 |
| 2012-2014 | 9 |
| 2013-2015 | 4 |
| 2014-2016 | 6 |
| 2015-17 | 7 |
| 2016-18 | 4 |
| Total | 34 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :

Yes

The School of Tourism Studies, which came up in 2010 is envisaged as a centre of higher learning and research in Tourism and Hospitality Studies and is the first University department of its kind in Kerala. The neighbouring Universities with such departments are Mangalore and Kuvempu Universities in Karnataka, Madurai Kamaraj University in Tamilnadu and Pondicherry Central University in Puducherry. The School aims to develop skilled human resources specific to regional and global needs in applied, technical, interpersonal, analytical and communication abilities to master in travel management, hospitality management, foreign languages and allied areas.

Studies on tourism and hospitality education conducted by the Ministry of Tourism, GOI and FHRAI highlighted the need for more professionals. A survey by the Ministry of Tourism indicates that there is a demand for 2.03 lakh trained professionals every year of which 66 percent is at skill level and 34 percent at managerial level (69020). FHRAI's 43rd annual convention reaffirmed the fact about the mismatch between demand and supply, with Indian students still needing more institutions as the existing institutions meet only 15 percent of the industry requirements. A study conducted by the Dept. of Tourism, Govt. of Kerala says that there is a paucity of qualified talent for middle management positions in Kerala and most companies are bringing talent from outside the state to fill positions.

Human resource development and supply of skilled manpower to the fast growing Tourism, Hospitality and allied industries will enhance University's role as an employment guarantor. The proposed facilities and academic programmes will help the School to acquire facilities at par with similar departments in well-known universities like University of Wisconsin and Purdue University in USA, Stenden University in Netherlands, Taylor's University in Malaysia etc. facilitating academic collaboration including student exchange and faculty exchange.

42. Does the department obtain feedback from

| | |
|---|---|
| a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | The Faculty Council analyses the feedback and makes necessary changes and additions |
| b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | The Faculty Council analyses the feedback and makes necessary changes and improvements in the curriculum and teaching –learning-evaluation process. |
| c. Alumni and employers on the programmes offered and how does the department utilize the feedback? | Feedback from alumni is generally collected during "Felize"- the biannual alumni meeting. Feedback from the alumni and employers are very important as they represent the changing trends in global tourism and hospitality industry. Faculty Council analyses their feedback and usually incorporates it in the teaching –learning process as it helps to avoid a gap between the skills achieved by students and the requirements of the workplace. |

43. List the distinguished alumni of the department (maximum 10)

| S.No | Name | Current Position |
|------|-------------------|--|
| 1. | Dr. Sindhu Joseph | Assistant Professor, GPM Government College, Manjeswar, Kasargode (Dist) |
| 2. | Manasse Benny | Assistant Professor, Mar Ivanios College, Trivandrum |
| 3. | Anita T.A | School of Tourism Studies, MG University |
| 4. | Lijesh Jose | Emirates, Dubai |
| 5. | Yatheeshkumar | Branch Manager, Thomas Cook, Thrissur |
| 6. | Charudath T.D | Intersight Holidays, Cochin |
| 7. | Akhil K.S | Intersight Holidays, Bangalore |
| 8. | Rakhi C.R | Dolphin Line – Cargo and Freight Company, Dubai |
| 9. | Jinson V. John | Tamarind Global, Cochin |
| 10. | Merin Joseph | AFC Holidays, Dubai |



44. Give details of student enrichment programmes (Special lectures/workshops/seminar) Involving External Experts.

| Year | Details |
|----------------|--|
| 2011-12 | <ol style="list-style-type: none"> 1. Special lectures by Dr. Toney K Thomas, Deputy Dean, Dept. of Tourism, Taylors University, Malaysia. 2. Career orientation seminar and key note address by Mr: Krishnachandran, Geneal Manager, Inter sight Tours and Travels, Cochin. 3. Special lecture on hospitality by Mr: Motty Mathew, Owner, Motty's Home stays, Alleppey. 4. Special Lecture by Mr. John George, Business Head India (Tours), UAE Exchange and Financial Services 5. Special lecture by Mr.Joshy V Mathew, General Manager, First Source Ltd, Bangalore. |
| 2012-13 | <ol style="list-style-type: none"> 1. Career Orientation Seminar and keynote address by Mr.Krishnachandran, General Manager, Inter sight Tours and Travels Pvt. Ltd, 2. Industry familiarization-Career orientation programme by Shiju P.K, General Manager, Tamarind Tours. 3. A lecture on hospitality by Mr.Motty Mathew, Owner, Motty's Homestay, Alleppey. 4. Special lecture given by Dr. Toney K Thomas, Deputy Dean, Dept. of Tourism, Taylors university, Malaysia. 5. Special Lecture by Mr. K Unnikrishnan, Deputy Commercial Manager (retd.), Air India 6. Special Lecture by Dr. Abey Kuruvilla, Associate Professor, University Of Wisconsin-Parkside, USA |
| 2013-14 | <ol style="list-style-type: none"> 1. Special lecture given by Dr. Toney K. Thomas, Deputy Dean, Dept. of Tourism, Taylor's University, Malaysia. 2. Carrier orientation by Mr. Krishnachandran, General Manager, Intersight Tours and Travels, Cochin 3. Career orientation led by Mr. Shiju P.K , General Manager, Tamarind Tours 4. Student Counselling by Mrs. Rebecca George, Retd. HOD, Dept of Physics, Baselios College, Kottayam. 5. Special lecture given by Dr. VinayarajMothiravally, Programme Director, Dept. of Hospitality Management, Taylor's University, Malaysia . |

| | |
|------------------|---|
| | 6. Special lectures by Mr. Biju George, Mr. John George, Dr. Sebastian George, Dr. Deleep D, Mr. Joshy Mathew and Dr. AshaKuruvilla |
| 2014-2015 | <ol style="list-style-type: none"> 1. Special lecture given by Dr. Toney K. Thomas, Deputy Dean, Dept. of Tourism, Taylor's University, Malaysia. 2. Career orientation led by Mr. Shiju P.K , GM Tamarind Tours 3. Special lecture given by Dr. Vinayaraj Mothiravally, Programme Director, Dept. of Hospitality Management, Taylor's University, Malaysia . 4. Student Counseling by Mrs. Rebecca George, Retd. HOD Physics Department, Baseli's College, Kottayam. 5. Interactive session by Mrs. Sonia Jose, Responsible Tourism ,Kerala 6. Career guidance by Mrs. and Mr. Babu, Directors of Coconut Creek Homestay, Kumarakom, a national award winner. 7. Student counseling session by Dr. Sissy Jose, HOD, Nursing Department, School of Medical Education, Gandhinagar. |
| 2015-16 | <ol style="list-style-type: none"> 1. Special lecture by Dr. B. George, Associate professor, Madurai Kamaraj University, Madurai 2. Special lectures by Mr. Biju George, ILO certified trainer. 3. Special lecture by Dr. Vinayaraj Mothiravally, Programme Director for Hospitality, Taylor's University, Malaysia. 4. Career orientation led by Mr. M. R Hari, Director, Invis Multimedia, Trivandrum 5. Special lecture given by Dr. R. Kannan, Associate professor, Madurai Kamaraj university, Madurai |

45. List the teaching methods adopted by the faculty for different programmes.

Teaching methods adopted include both traditional and modern methods like

- Lectures
- Audio-visual aid
- Open Internet Sources
- flipped class room
- Power Point Presentations
- demonstrations
- Activity based learning
- Group Discussions etc.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- The School ensures that programme objectives are constantly met and learning outcomes are monitored through a continuous process by modifying the syllabus as the need dictates.
- The performance of students is evaluated through examinations and teacher's performance is constantly evaluated through the feedback from students at the end of each semester.
- The School always seek the expert opinion from national and international visiting professors and experts from industry.
- The feedback from the alumni is also considered in revamping the programmes.

47. Highlight the participation of students and faculty in extension activities.

- Faculty members are engaged in writing articles on different dimensions on tourism in national newspapers and have contributed more than 200 articles.
- The school gave an intensive coaching on 'life saving skills' by utilising the expertise of eminent doctors from reputed hospitals.
- Personality development programmes were organized for the benefit of students.
- The topics selected for student group projects are focused on social and economic resurgence of rural economy in collaboration with many nongovernmental organizations and local/ regional entrepreneurs.

48. Give details of "beyond syllabus scholarly activities of the department"

- The students are encouraged to participate in seminars and paper presentations in the subject.
- Students are given opportunity to participate in live projects of the department. They are encouraged to organise various programmes within the department and the University on their own.
- The department constantly engages in providing on the job training for students by placing them in the industry and bringing people from the industry to share their experience and expertise from time to time.
- The school gave an intensive coaching on 'life saving skills' by utilising the expertise of eminent doctors from reputed hospitals.
- Personality development programmes were organized for the benefit of students.

49. State whether the programme/department is accredited/ graded by other agencies? If yes,

Give details: No, The school has not tried for independent accreditation.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The 'School of Tourism Studies' is conceived as a centre of higher learning for all tourism and hospitality management programmes which generates skilled personnel with a broad range of applied, technical, interpersonal, analytical and communication skills in tourism leadership. Besides this the school is actively engaged in research related to accessible tourism, destination development, tourism product development, Airline Economics, E – tourism, Visitor Management Systems, destination benchmarking etc.

The Tourism Business Incubation and Consultancy Cell (TBICC), a functional division of the School of Tourism Studies is conceived as an operational arm focusing on operational and practical aspects of travel, tourism and hospitality management and is the first of its kind in the country. It explores the possibility of University – Industry – Government tie up and engagement to ensure sustainable tourism development in the national and international levels. The modes of engagement planned include (a) Tourism Resource Mapping (b) Tourism Business Incubation and training (c) Destination Development Services (d) Handling of and Research and Consultancy Projects.

The major contributions of the School are as follows:

- Development of manpower resources for the booming transport and tourism industry resulting in effective placement.
- Effective industry linkage helping manpower development.
- Consultant for destination development projects.
- Community empowerment and alternate income generation through sustainable tourism initiatives.
- Projects of social relevance undertaken by the school were taken up by the policy makers for implementation.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

1. The core competency of the department is its innovative curriculum that bridges the gap between the skills achieved by the students and the requirements of the workplace.
 - A well balanced approach combining general components and skill components and specialization in different sub-sectors of tourism namely Aviation Management, Health Tourism and Tour Operations.
 - All relevant sub-areas incorporated into the curriculum like Airline operations, hospitality Management, Foreign Exchange Management and Communication Skill development and Foreign Language French.
2. Use of ICT enabled teaching learning approach where each student and faculty has access to computers and internet facilities. The use of Edmodo - a digital online teaching learning interactive platform helps to ensure online participatory learning through its superior features like online discussions, online tests, pooling resources, online submission of assignments etc.
3. Use of world class travel simulating software like Galileo, Amadeus, Virtual Hotel, Virtual Travel Agency and Virtual Food and Beverage procured from Mundus Corporation, USA helped to achieve the desired learning outcomes.

4. A well-equipped library with books of all major national and international publishers and international magazines like National Geographic Traveller, Conde Nast Traveller, Lonely Planet, FHRAI Magazine etc.
5. The outcome of group student projects are immense in terms of its relevance, volume, influence on local community, new tourism product development and its acceptance by Governmental and Non-governmental organisations in making policy decisions. The work in collaboration with tourism/leisure industry suppliers/accredited institutes helped students to acquire training in team work, writing, presenting and defending a research report besides inculcating skills to become efficient travel professionals and potential tourism project consultants

Weakness:

1. Being a new department which came into existence only 5 years back, the school has limited physical space at present, which acts as a hindrance for expansion activities.
2. There is a shortfall of three permanent faculty members in the School. But this weakness is addressed by utilizing the services of Guest Lecturers and visiting Resource Persons.
3. The difficulty of some of the students to acknowledge the prime importance of attaining service skills and service aptitude in a global workplace due to their socio-cultural backgrounds and their slow transformation as fully trained service professionals is another major hindrance towards optimum outcome.
4. Lack of understanding of the interdisciplinary nature of the subject among public.
5. Low student diversity from other states and countries.

Opportunities:

1. There exists a huge demand – supply gap in the tourism, hospitality and aviation industries which provides an opportunity for the institution to supply trained manpower according to the requirements.
2. Employment opportunities exist at the global level for tourism students.
3. School offers inter-disciplinary studies that acts as a meeting place of students from all disciplines.
4. Opportunity to influence policy makers in policy decisions.
5. Opportunity to become a premier centre for tourism, hospitality and foreign language studies and research.

Challenges:

1. Students from different socio-cultural backgrounds, disciplines, and varying communication levels and service aptitude act as a challenge in the achievement of the desired goals within the available duration.

2. Lack of sufficient space makes it difficult to implement add-on courses and student exchange programmes.
3. To attract students towards the interdisciplinary subject.
4. Taking up of extension and consultancy services with very less manpower involvement.
5. Effective combining of theoretical and operational dimensions of the subject poses a big challenge.

52. Future plans of the department

1. Enhancing the physical learning environment by constructing a new customized building (around 3000sq.mt) with class rooms, Labs, Tourism Resource Centre, Tourism Business Incubation and Consultancy Cell (TBICC) and other facilities. The proposal is conceived in line with some of the premier institutions like Taylor's University, Malaysia and University of Wisconsin, USA and NITHM, Hyderabad and IITTM, Gwalior. The Govt. of Kerala has sanctioned an amount of Rs.2 Crores for the construction of its first phase.
2. Starting a Master's programme in International Hospitality Management (MIHM) with all the infrastructural and other resources specified by the national bodies.
3. Starting foreign language programmes in German, French, Chinese and Spanish.
4. To have international academic collaboration at the institutional level (faculty and student exchanges, joint development of programmes, joint organising of conferences etc) after achieving the infrastructural requirements of the School resulting in having good physical learning environment.
6. To widen the role as technical support partner for the Department of Tourism, Govt. of Kerala and other policy making bodies by strengthening the activities of Tourism Business Incubation and Consultancy Cell (TBICC), a functional division of the School of Tourism Studies which explores the possibility of University – Industry – Government tie up and engagement to ensure sustainable tourism development in the national and international levels.
7. To become the national level accreditation provider for Global Level Certification of Tourism Destinations and services in areas like hospitality, tour operations etc. The certifications are Global Sustainable Tourism Certification (GSTC), Green Globe, Earth Check, Blue Flag and Biosphere.
8. To get accredited with the TedQual accreditation of UNWTO after achieving the first seven goals.



DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

| | | | |
|----|--|---|--|
| 1. | Name of the Department | : | Department of Lifelong Learning and Extension |
| 2. | Year of establishment | : | 13 August 2010 In 1991 following the U.G.C Guidelines Department of Adult Continuing Education Extension and Field Outreach was Established and later in 2010 the Department was renamed as Department of Life Long Learning and Extension as per the Vide Order No.4034/P&D-I/2010/Admn dated 13/08/2010 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Social Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Six month Certificate Courses <ul style="list-style-type: none"> • Certificate Course in Organic Farming • Certificate Course in Yogic Science • Certificate Course in Management of Learning Disabilities • Certificate Course in Counselling One Year Diploma Courses <ul style="list-style-type: none"> • Diploma Course in Yogic Science • Diploma Course in Organic Farming |
| 5. | Interdisciplinary programmes and departments involved | : | The Department introduces courses as per the need based studies conducted in the community through the campus community partnership programme. All the courses offered by the department are of interdisciplinary nature. The various courses conducted by the department itself prove the interdisciplinary nature. Department conduct various seminars in association with various departments in the campus |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | Semester system for Certificate Courses Annual System for Diploma Courses |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|--|--|--|--|--|------------|--------|-----------------------------|-----------|-----|-----|-----|----------------------|---|---|---|------------------|-----|-----|-----|--------|-----|-----|-----|
| 9. | Participation of the department in the courses offered by other departments | : | Students from the Department participate in the courses offered by other Departments. | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | <table><tr><td></td><td>Sanctioned</td><td>Filled</td><td>Actual(including CAS & MPS)</td></tr><tr><td>Professor</td><td>Nil</td><td>Nil</td><td>Nil</td></tr><tr><td>Associate Professors</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Asst. Professors</td><td>Nil</td><td>Nil</td><td>Nil</td></tr><tr><td>Others</td><td>Nil</td><td>Nil</td><td>Nil</td></tr></table> | | | | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | Nil | Nil | Nil | Associate Professors | 1 | 1 | 1 | Asst. Professors | Nil | Nil | Nil | Others | Nil | Nil | Nil |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | | | | |
| Others | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No.of Years of Experience | No.of Ph.d/M.Phil students guided for the last 6 years |
|-----------------|---|---------------------|---|---------------------------|--|
| Dr.K.Sabukuttan | M.A, MPhil , PhD(History) M.A Politics M.A.Sociology M.A.Philosophy Diploma in TCI | Associate Professor | 1.Modern Kerala History, 2.Socialization, 3.Extension, 4.Social History of Kerala, 5..Local History | 27 | NA |

12. List of senior Visiting Fellows, adjunct faculty,emeritus professors:

| | | |
|----------------------------------|--|---------------------------|
| Faculties of the various courses | Counselling Course Guest Faculties | |
| | 1. | Mathew Kanamala |
| | 2. | Anish Mohan |
| | 3. | Dr.Thomas Abraham |
| | 4. | Reena James |
| | Organic Farming Course Guest Faculties | |
| | 1. | K.V.Dayal |
| | 2. | B.Radhakrishnan |
| | 3. | Dr.Sallikutty joseph |
| | 4. | Dr.Elizabeth joseph |
| | 5. | Dr.J.G.Ray |
| | 6. | Sri.Tony Thomas |
| | 7. | Dr.Leenakumari |
| | Management of Learning Disabilities Guest Faculties | |
| | 1. | Dr.Muhamed Mustafa |
| | 2. | Thamimul Ansari |
| | 3. | Bhathadas |
| | 4. | Aiswarya Mohandas |
| | 5. | Dr.Ameer Hassan |
| | Yogic Science Guest Faculties | |
| | 1. | Dr.Toms Abraham |
| | 2. | Dr.E.N.Balakrishnan Nair. |
| | 3. | M.R.Gopalakrishnan Nair |
| | 4. | Dr.VishwambharanNair.M.S |
| | 5. | Dr.Sarith Kumar |
| | 6. | Sanjayanand .R |

13. Percentage of Classes taken by the temporary faculty: 99 %

14. Programme-wise Student-Teacher Ratio

- Certificate Course in Yogic Science-16:1
- Certificate Course in Organic Farming-4:1
- Certificate Course in Management of Learning Disabilities -5:1

➤ Certificate Course in Counselling-5:1

➤ Diploma in Yogic Science-10:1

15. Number of academic support staff

- Technical Staff Sanctioned-0 filled-0-Actual-0
- Number of administrative staff-Sanctioned-1 Filled-1 Actual -1

16. Research thrust areas as recognized by major funding agencies: NA

17. Number of faculty with ongoing projects from: a) national, b) international funding agencies and, c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received:- Nil

19. Departmental projects funded by DST-FST:UGC-SAP/CAS,DPE;DBT,ICSSR- : Nil

20. Research facility/centre with

- State Recognition: Nil
- National Recognition: Nil
- International Recognition: Nil

21. Special research laboratories sponsored by/created industry or corporate bodies- NIL

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 2 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 2 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 5 |

23. Details of patents and income generated : NIL

24. Areas of consultancy and income generated: NIL

25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad-

| Sl.No. | Name of Faculty | Laboratory/Institutions |
|--------|-------------------|---|
| 1. | Dr. K.Sabukuttan, | <ul style="list-style-type: none"> invited speech at the National Integration camp at PA college of Engineering and Technology, Pollachi on 3rd May 2016 on the topic "NSS and Durable Assents Creation" |
| 2. | Mathew Kanamala | <ul style="list-style-type: none"> Participated person-centered approach program in various places as detailed below: Year Place 2011 UK 2012 UK 2014 Malaysia 2015 UK Prepared Indian version of e-learning of person-centered approaches with the support of Helen Sanderson approach, UK |

26. Faculty serving in

- National committees- Nil
- International committees - Nil
- Editorial Boards - Nil
- any other - 11

| Sl. No. | Name of the faculty | Committees |
|---------|---------------------|---|
| 1. | Dr.K.Sabukuttan | <ul style="list-style-type: none"> Research Guide, School of Gandhian Thought and Development studies Programme Co-ordinator, National Service Scheme Co-ordinator, Vivekananda Chair Co-ordinator, Additional Skill Acquisition Programme Member, Academic Council, Mahatma Gandhi University Expert Committee Member, Centre for Yoga and Naturopathy Executive Committee Member, Inter University Centre for Organic Farming and Sustainable Agriculture Advisory board Member, Department of Adult Continuing Education and Extension, University of Kerala Advisory board Member-Empanelled Training Centre for NSS Rajagiri College of Social Sciences, Kalamassery Advisory Board Member, N.S.S, Govt. of Kerala Advisory Board Member, Nehru Yuva Kendra, Kottayam |

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs):-

| Faculty recharging programmes | |
|--------------------------------------|---|
| Dr.K.Sabukuttan | <ol style="list-style-type: none"> 1. Participated in the NSS National integration Camp at PA College of Engineering and Technology, Pollachy on 3rd May 2016 on and presented a paper on “NSS and Durable Assets Creation”. 2. Presented a paper on “Yoga and Cultural Heritage” in the two day National Seminar conducted by the Department of Life Long Learning and Extension and Centre for Yoga and Naturopathy on 18th March 2015 at the School of Gandhian Thought and Development Studies 3. Presented a paper entitled “Kudumbasree as a Catalyst for making changes in the life of Kerala Women” in the National Seminar on Flagship Programmes in the Development Exposure of Independent India at Govt. College, Nedumangad on 31st January 2016. 4. Chaired a session on “Modern Socio-Religious Reform Movements in Kerala” in the National Seminar conducted at D.B.College, Sasthamkotta, Kollam on 19th August 2015 5. Presented a paper entitled “Swami Vivekananda on Education” in the UGC sponsored National Seminar on Swami Vivekananda’s message of Community Service for the Youth of India” at M.A College, Kothamangalam on 30 August 2014 6. Presented a paper on “How Communalism affected the modernization of Kerala” in the UGC sponsored National Seminar on Reflections on “Communalism in India:Past and Present” at SreeNarayana College, Chempazhathy from 21-22 August 2014 7. Received a Certificate of Appreciation for the invaluable lecture “Feminization of Ageing” at the National Seminar sponsored by ICSSR New Delhi “On Ageing Gracefully: A multi-disciplinary Perspective” held on 25th November 2014 organized by the School of Gandhian Thought and Development Studies 8. Presented an invited paper in the UGC sponsored National Seminar on “Sustainable Recourse Management –Tools and Techniques ‘’. <p style="padding-left: 40px;">The title of the paper is “Environment Enrichment activities through National Service Scheme”.</p> <p style="padding-left: 40px;">The paper is published in the proceedings volume with ISBN: 978-81-7255-066-9 published by Department of Home Science, ST Teresa’s college Ernakulum</p> <ol style="list-style-type: none"> 9. Presented an invited paper in the International Seminar on “Extension the Third Dimension of education organized by the Marian College,Kuttikkanam and Department of Life Long Learning and Extension on 27th February 2016 10. Presented a paper on “Dalit Liberation Movement in Modern Kerala” in UGC sponsored National Seminar conducted by the Department of History, SreeNarayana College for Women on 28 January 2016. 11. Trainer for the Programme officers and Volunteer secretaries of the National Service Scheme, Mahatma Gandhi University on the following |



| | |
|--|---|
| | <p>dates 03/08/2012-05/08/2012, 27/09/13-29/09/13, 11/7/14-13/07/2014, 19/06/15 21/06/15, 10/06/16-12/06/16.</p> <p>12. Served as the Resource person to the Orientation Courses conducted by the empanelled Training Institutions (ETI) for NSS at the Rajagiri College of Social Sciences as shown below.</p> |
|--|---|

| Date | Topic |
|-------------|---|
| 05-11-2012 | Public Relations in NSS |
| 19-11-2012 | Public Relations in NSS |
| 27-02-2012 | Special Camping Programmes in NSS |
| 17-06-2013 | Special Camping Programmes in NSS |
| 01-07-2013 | Special Camping Programmes in NSS |
| 15-07-2013 | Special Camping Programmes in NSS |
| 29-07-2013 | Special Camping Programmes in NSS |
| 07-07-2014 | Success Stories in NSS |
| 12-08-2014 | Public Relations in NSS |
| 25-08-2014 | Public Relations in NSS |
| 22-09-2014 | Special Camping Programmes in NSS |
| 10-11-2014 | Special Camping Programmes in NSS |
| 2-12-2014 | Special Camping Programmes in NSS |
| 08-12-2014 | Special Camping Programmes in NSS |
| 07-09-2015 | Flagship Programmes in NSS |
| 14-09-2015 | Flagship Programmes in NSS |
| 12-10-2015 | Flagship Programmes in NSS |
| 20-10-2015 | Flagship Programmes in NSS |
| 17-11-2015 | National Integration and Social Harmony |
| 24-11-2015 | National Integration and Social Harmony |
| 1-12-2015 | National Integration and Social Harmony |
| 15-01-2016 | National Integration and Social Harmony |

| | |
|------------|---|
| 20-01-2016 | National Integration and Social Harmony |
| 01-02-2016 | National Integration and Social Harmony |
| 09-02-2016 | National Integration and Social Harmony |
| 15-02-2016 | National Integration and Social Harmony |
| 23-02-2016 | National Integration and Social Harmony |
| 25-07-2016 | National Integration and Social Harmony |
| 25-08-2016 | National Integration and Social Harmony |
| 06-09-2016 | National Integration and Social Harmony |
| 26-09-2016 | National Integration and Social Harmony |
| 25-10-2016 | National Integration and Social Harmony |
| 15-11-2016 | National Integration and Social Harmony |

28. Student projects-

| | |
|---|----|
| Percentage of students who have done in-house projects including inter-departmental projects | NA |
| Percentage of students doing projects in collaboration with other universities / industry / institute | NA |

29. Awards/recognitions received at the national and International Level by Faculty and student;

Faculty: STATE LEVEL

| Awards/recognitions | |
|---------------------|--|
| Dr.K.Sabukuttan | <ul style="list-style-type: none"> Received Life time Achievement Award in 2014 for promotion of yoga and Naturopathy from the Indian Martial Arts Academy Thrissur, Kerala Received Sarojini Damodar Foundation Award twice for the recognition of his service in propagating Organic Farming in 100 affiliated colleges under Mahatma Gandhi University during the year 2016 and also for the academic contributions in spreading the message of Organic Farming by starting Certificate and Diploma Courses at the University. Received Certificate of Honour for the incredible contributions in Social Service for the years 2012-13,2013-14 |

| | |
|--|--|
| | <p>and 2014-15 by Kerala Action Force, Anwar Pain and Palliative Care and IMA Madhya Kerala</p> <ul style="list-style-type: none"> • Received the Youth Promotion Award 2014 from the Centre for Research and Action (CIRA) in recognition of Significant Contribution in the field of Youth Development • Received the Best Programme Co-ordinator Award during the year 2013-14 and 2015-16 • Received the Kamala Dalam Award in 2016. • Received Synergy Award for the Empowerment of Youth in 2016 |
|--|--|

NATIONAL LEVEL

| Awards/recognitions | |
|----------------------------|--|
| Dr.K.Sabukuttan | <ul style="list-style-type: none"> • Received Indira Gandhi NSS Award for the year 2013-2014 for the BestNSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee. • Received Indira Gandhi NSS Award (Certificate of Appreciation) for the year 2012-2013 for the best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee. • Received the IPCAI National Award for the outstanding contributions in the field of Community Organisation through National Service Scheme of Mahatma Gandhi University in November 2016. |

| Awards/recognitions | |
|----------------------------|--|
| STUDENTS | <ul style="list-style-type: none"> • Anish Mohan a former student of counselling course received the State Award for Best Trainer for the differently abled in 2014 from the Social Welfare Dept of Kerala. It was in response to his request that the Kerala State Road Transport Commissioner issued an order to establish Special Parking Area for Differently Abled persons in all Govt/ Public |

| | |
|--|--|
| | <p>Institutions.</p> <ul style="list-style-type: none"> • Johnny Jose, Dy. Chief Accountant, Cochin Port Trust-introduced yoga linked Taichi-Karaete martial art form. Holder of karate 6th degree black belt, shorin-ryu style, Japan. Twice national karate champion, former Kerala University Football Captain. • T.M. Varghese, received National Award for Best Teacher. • G. Sreekumar received Best PR Professional National Award in India. • Shibu K. Raju won Fourth Rank in Masters in Music from University of Kerala. • Yoga championship winners: <ul style="list-style-type: none"> ➤ MeeraT. Abdulla, Best Performer, karnataka state championship (Ministry of Ayush and Sports University) ➤ K.K.Rajesh, Best Performer, Patanjali Yoga State Championship ➤ Thomaskutty Varghese, Best Performer, Kottayam District Championship ➤ Anilkumar, Best Performer, Trissur District Championship ➤ Amalasuresh, Third Position, M.G.University Championship |
|--|--|

30. Seminars/conferences/workshops organized and the source of funding with details of outstanding participants if any:-

| Sl. No. | Programme organized | Source of funding | Outstanding participants |
|---------|--|-----------------------------|--|
| 1. | Four day Seminar on Organic Farming-31 Jan 2013 to 3 Jan 2013 | Department Development Fund | Sri. K.V.Dayal, Organic Expert |
| 2. | One Day Seminar on Organic Farming-16 October 2014 | Department Development Fund | Sri. K.V.Dayal, Organic Expert |
| 3. | The International Seminar –26-28 February, 2016-“Extension the Third Dimension of Education” | Department Development Fund | |
| 4. | Two Day National Seminar on Relevance of Yoga in Modern Life-18 -19 March,2016 | Department Development Fund | HiraRetanManek, Sun Gazing Expert |
| 5. | One Day Workshop on Career Guidance on 29 March 2016 | Department Development Fund | Sinu Thomas |
| 6. | National Seminar on the Trends and Developments in the Education of Children with Learning Disabilities, 07 May 2016 | Department Development Fund | Himshu Tripathi , Alagappa University |
| 7. | TCI workshop on the theme “Where in lies my inner fire? How can I make it a flame” 9-11 May, 2016 | Department Development Fund | Dr.C.Thomas Abraham |
| 8. | National Seminar on Blood and Organ Donation-Scientific and Motivational Aspects -5 - 7October 2016. | Department Development Fund | <ul style="list-style-type: none"> • Dr.SundarPeriyavan (NIMHANS, Bangalore) • Dr.C.Shivaram (Manipal Hospital, Bangalore) • Dr.SusheelaKamath (Principal Auditor/ Assessor- NABH BB) • Padmasree Dr.S.Tony Fernandez (Dr.Tony’s Eye Hospital, Aluva) • Dr.NeerajSidharthan (AIMS, Kochi) |

| | | | |
|-----|--|--|---|
| 9. | International Conference – “Envision- A Holistic View on Empowering Women, Date-15- 16 November, 2016 | Department Development Fund | |
| 10. | Inter Collegiate Seminar on Life Style and Total Health. 30 November 2012 to 2 December 2012 | Jointly organised by St.Xavier’s College, Aluva and National Service Scheme of MG University and Department of Life Long Learning and Extension | |
| 11. | Inter collegiate camp on Leadership&Personality Development. 1-3 March 2013. | Jointly organised byNirmala College, Muvattupuzhaand National Service Scheme of MG University and Department of Life Long Learning and Extension | |
| 12. | Organic Farming Training Programme 3 December 2013 | Jointly organised by Assumption College, Chanagacherry and National Service Scheme of MG University and Department of Life Long Learning and Extension | Sri. K.V.Dayal, Organic Expert |
| 13. | Intercollegiate camp on Environment and Skill Development on 20-22 December 2013. | Jointly organised by MES College, Erumely and National Service Scheme of MG University and Department of Life Long Learning and Extension | |
| 14. | One day seminar on personality development on 11 January 2014. | Jointly organised by K.G.College Pampadyand National Service Scheme of MG University and Department of Life Long Learning and Extension | <ul style="list-style-type: none"> • Jimmy Joseph, Skill Development Trainer • Dr.K.Joy |
| 15. | Personality Development Programme on 05 February | Jointly organised by St.Joseph’s College, | |



| | | | |
|-----|--|---|--|
| | 2014 | Moolamattom and National Service Scheme of MG University and Department of Life Long Learning and Extension | |
| 16. | Women Entrepreneurship Development Programme | Jointly organised by Alphonsa College, Pala and National Service Scheme of MG University and Department of Life Long Learning and Extension | |

31. Code of Ethics for research followed by the Department:

Plagiarism will be assessed before submission of research papers for publication.

32. Student Profile programme wise:

The department conducts courses in a non-formal format. Classes are conducted on Saturdays and Sundays. The admission procedure is **first come first serve method**. The information regarding the starting of the new batches are informed to the general public through the leading newspapers. A fixed date is scheduled for the admission of various courses and the seats are filled as per the allotted number. Hence the number of applications received is equal to the number of allotted vacancies. The no. of vacancies for the various courses are as follows.

- Certificate Course in Organic Farming-50
- Certificate Course in Counselling-50
- Certificate Course in Management of Learning Disabilities-50
- Certificate Course in Counselling-50
- Diploma in Yogic Science-50

33. Diversity of Students: NA

34. How many Students have cleared Civil Services examinations, NET, SET, GATE and other competitive examinations? Give Details category-wise: NIL

35. Student Progression: NA

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|----|
| Of the same university | 75 |
| From other universities within the state | 25 |
| From universities from other states | 0 |
| Universities outside the country | 0 |

37. Number of faculty who were awarded M.Phil, Ph.D, DSC, and D.Litt during the assessment period- NIL

38. Present details of the departmental infrastructural facilities with regard to:

- Library- A library facility is available for the students of the Department.
- Internet facilities for staff and students: Available
- Total number of class rooms- 3
- Class rooms with ICT facility- Nil
- Student's laboratories- Nil
- Research Laboratories- Nil

39. List of doctoral,post-doctoral students and Research Associates-Nil

40. No.of post-graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programmes,If so highlight the methodology.: Based on surveys and need based studies the new programmes are introduced

42. Does the department obtain feedback from –

a. Faculty on curriculum as well as teaching-learning evaluation?if yes how does the department utilize the feedback

Yes, the Department utilizes the feedback from the faculty for the betterment of the course structure, and for updating syllabus.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback

Yes. A feedback form is given to the students to obtain studentsfeedback onstaff, curriculum and teaching-learning-evaluation. They have the option to add their general comments other than what is asked in the format. The department views the

feedback taking procedure as a serious one and the committee of faculties and the HOD evaluate the feedback forms and take necessary actions wherever it is needed. The suggestions from the candidates are taken into consideration while preparing the next schedule.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. The feedback from the alumni is also taken for the betterment of the course and it is given in a non-formal way in the alumni meetings.

43. List the distinguished alumni of the department

| S.No | Name | Current Position |
|------|---------------------|--|
| 1. | Sri.M.R. Unni | Registrar,M.G. University |
| 2. | G.Sreekumar, | Former P.R.O, M .G.University |
| 3. | T.M.Varghese | recipient of National award for the best teacher |
| 4. | Prof. Thomas Joseph | Former Secretary, Higher Education Council, Kerala |

44. Give details of student enrichment programmes(Special lectures/ workshops /seminars)involving external experts

| Sl. No. | Student enrichment programmes organized |
|---------|---|
| 1. | Four day Seminar on Organic Farming 31-01-2013 to 3-02-2016 |
| 2. | One Day Seminar on Organic Farming-16-10-2014 |
| 3. | International Old Age Day – October 1 st 2015 |
| 4. | The International Seminar -“EXTENSION: THE THIRD DIMENSION OF EDUCATION” - February 26-28, 2016 |
| 5. | Jalatharangam -2016- a programme on rainwater harvesting |
| 6. | World Environment Day Celebration-June 5, 2015 |
| 7. | Two Day National Seminar on Relevance of Yoga in Modern Life18 th and 19 th March,2015 |
| 8. | One Day Workshop on Career Guidance on 29/03/2016 |
| 9. | National Seminar on the Trends and Developments in the Education of Children with Learning Disabilities 7 th May 2016. |
| 10. | Workshop on the theme “Where in lies my inner fire? How can I make it a flame” |

| | |
|-----|--|
| 11. | National Seminar on Blood and Organ Donation-Scientific and Motivational Aspects -5 to 7 October 2016. |
| 12. | International Conference –“Envision- A Holistic View on Empowering Women 15-16 November,2016 |

45. List the teaching methods adopted by the faculty for different programmes

The teaching methods adopted for each course is different. For example the Certificate Course in Organic Farming gives more importance to practical training and knowledge gaining from the field, whereas the Certificate Course in Counselling & Management of Learning Disabilities course give more weightage for building the theoretical background and also a moderate percentage of teaching hours is dedicated for the practical aspects such as field visits, case study etc. Certificate Course in Yogic Science is different where practical and theoretical sessions have equality in the teaching.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- Practical training is imparted to the students in the respective area of study and they turn in to employable people from the day one of their exit from the Department. For example the Programs in Yogic Science equip the participants with the skill sets and knowledge required to become instructors, thereby inspiring the larger society to taste the invaluable knowledge treasure of the Nation.
- The students of Organic Farming engage themselves in all agricultural practices right from grooming of the farmer to embrace paradigm shift in their practices. The concepts of converting Biowaste in to manure (Resource) and undoing the habit of burning the dried bio materials are imparted to the students. The students undergo all facets of agriculture right from soil preparation to harvesting.
- The students of the Learning Disability Management attend to the requirements of the parents and the children who have learning disability. Nature camps are also promoted.
- The students mandatorily attend to field visits and public interface programs of which reports are regularly collected, corrected and verified by the faculty.
- The Yoga students under the supervision of the Faculty regularly conduct extension activities through Yoga for Masses- a Public Health Initiative. Basics of yoga are introduced to the public as part of the Initiative, to check growing Life Style Diseases and to impact on the public health, minimizing medicines and its side effects. 477 Yoga professionals who are appropriately skilled to provide training for

the public have passed out from the Department during the assessment period. More than 192 students have started Yoga training centres have been launched by the MGU Alumni, besides reaching the message of Yoga to more than 25,000 people through mass contact programme for healthy living and freedom from life style diseases.

- The Department offers **Counsellor on Call** to the students and educational institutions as and when required. More than 2000 students have been counselled through the system so far.
- The students and the faculty conduct regular **Learning Disability Detection Camps** for appropriate remedial measures for assured progression of the children with disability. 152 students have been trained in managing Learning Disability.
- The Alumni have started 11 remedial teaching centres in various parts of the state of which majority are Homoeo doctors.
- The students of the Department have been sent to all Colleges under the University as brand ambassadors of Organic Farming. **100 Organic Farming Clubs** have been set up in Colleges under the varsity, and cumulatively all the Clubs have produced vegetables worth Rs 50 lakhs. Imbibing the spirit of “Plenty for All” the Alumni have launched unique startups in the farming sector which include Marketing Ventures (eg. Assissia, Padivattom, Ernakulam), Cooperative Societies (eg. Samhari, Trissur), Teaching School for Agriculture, Pandalam.

47. Highlight the participation of students and faculty in extension programmes

The name of the Department itself is self proclamatory regarding the extension activities. The extension is part of academics here. The extension activities are carried out as per the UGC mandate in this regard

- **Personal Development Centre**

The Personal Development Centre of the Department gives counselling and guidance services to the University staff, students and to the general public. It offers reliable confidential services to alleviate the stress and strain and boost the level of confidence of the beneficiaries. The persons associated with the Certificate Course in Counselling also collaborate with the efforts of the Personal Development Centre.

- **GramaVikas Kendra**

Grama Vikas Kendra of the Department is a self-sufficient service unit that ensures campus community partnership in a unique way. The department has adopted a village near the campus and it is Nalapathimala. The Department has also adopted two wards in the Athirampuzha Panchayat (Central Ward-8 and Ward 4) and RSWLP School, Kattathy, Ettumaanoor (Ward 4). The department is conducting awareness programmes and campus community outreach programmes in these adopted wards, school and

village. There is a senior citizen's forum under the Department and the senior members from Nalpathimala are members in it. The Department conducted socio-economic survey and house visit in the adopted wards and in Nalpathimala village.

- **Counsellor on Call**

Department of Life Long Learning and Extension offers Counselling for the needy in a venture known as Counsellor on Call. There is a part time counsellor available at the Department. The staff, students from affiliated colleges and the people from adopted villages can make use of this facility absolutely free of cost on prior appointment.

- **Thanima 2011**

Thanima 2011 was organized as a culmination of the one year project undertaken by the Department for identifying, honouring and promoting the traditional artisans and crafts men with exceptional skills. Around 30 stalls were arranged and more than 50 artisans participated in the exhibition.

- **CAP Help Desk**

The Department rendered its laudable service to the University during the Centralised Allotment process for U.G. Admission in the academic year 2011-12 In association with the University Information Centre, the Department opened three CAP Help Desks at Pallickathodu, Kottayam and Pathanamthitta. It also cooperated with the University Information Centre at Vaikom by lending the service of one NSV for the smooth conduct of the Help Desk. Around 1200 candidates submitted their application through Help Desk opened by the Department. The Help Desks were functioning from May to July.

- **Campus Guards Day Celebration**

24 May 2011 was reserved for the get-together and merry-making of the campus guards. Around 250 ladies including the former members of the Campus Guards assembled in the University Assembly Hall at 10.30 am.

- **UID Registration**

In July 2012 the Department made arrangements for UID registration at the Department utilizing the service of the personnel from Akshaya Centre, Vayala. More than two hundred persons benefited from the service.

- **Harvest Ceremony and Exhibition**

On 11th November 2012 under the aegis of the Department, a meeting of the organic farming was held at the University. Seeds and vegetables were exhibited and distributed in the meeting in celebration of the new harvest season.

- **Geriatric Health Survey**

The project staff of the Department collaborated with the MPH students of University College of Medical Education, Kottayam in conducting a Geriatric Mental Health

Survey from 11 to 14 of January 2013 giving special emphasis on Alzheimer's disease. The survey also covered the socio-economic aspects of physical, mental and psycho- social health of the aged population. Based on its findings practical measures are formulated to tackle existing crisis.

- **Exhibition of FUKUOKA'S Photos, 28 April 2013**

The students of Organic Farming arranged a photo exhibition on 28/04/2013, Sunday at the Department. The exhibition covered the rare photos of Masanobu Fukuoka. A session on the Japanese veteran's farming methods and life exhibition on natural farming and one straw revolution had a positive impact on the aspirants of organic farming. It was an occasion to learn about cost effective and environment friendly ways of farming.

- **Four day Seminar on Organic Farming, 31 Jan to 3 Feb, 2013**

Department of Lifelong Learning and Extension organised a four day Organic Farming Seminar. A field visit to the Organic Farms were also arranged on the last day of the seminar. Apart from the students around 40 promoters of Organic Farming has attended the Seminar.

- **Health Awareness Campaign**

The Department of Lifelong Learning and Extension joined hands with the National Service Scheme of Mahatma Gandhi University in conducting a health awareness Campaign on the wake of diseases like Chikungunya and Dengue Fever. The Health Awareness Programme was conducted on 15th July 2013 at the University Assembly Hall. From 15th to 22nd July 2012 Homoeo medicines to curb Chikungunya and Dengue fever were distributed in the University Campus.

- **Human Rights Day Celebration**

On Friday 10th October 2014, the Department celebrated the Human Rights Day. A meeting of the members of the GramaVikas Kendra was convened at the Department.

- **One Day Seminar on Organic Farming-16 October 2014**

Organic Farming being one of the thrust areas in the extension activities of the institution the Department has organised a one day Organic Farming seminar. The seminar was intended to spread the message of Organic Farming by giving training to the NSS Volunteers through the campus community partnership.

- **Digital India Mega Camp-2015**

Department of Life Long Learning and Extension took up the Prime Minister's flagship programme Digital India. In connection with the initiative, the Department conducted a Digital India Mega Camp for the Staff and Students of Mahatma Gandhi University. The camp's prime concern was to distribute Digital Locker and also a presentation of the Digital Services available. The programme was conducted in connection with the Akshaya Project, Kottayam.

- **International Yoga Day Celebration-June 2015**

The first International Yoga day was celebrated by the Department of Life Long Learning and Extension in association with the National Service Scheme of the Mahatma Gandhi University at the B.K.College, Amalagiri.

- **International Old Age Day-2015**

“Thanalekiyavarkk Thanalekam” was the theme of the International Old Age Day Celebrations of the year 2015. The theme means giving shadow to those who provided shade for us. The main aim of the programme was to acknowledge the old people and also to give emotional support to the old people. The young generation should make it habit to support the elderly as part of the culture.

- **The International Seminar- Feb-26-28, 2016Extension-The Third Dimension Of Education**

Department of Lifelong Learning and Extension joined hands with the National Service Scheme of Marian College, Kuttikkanam for the International Seminar entitled “Extension-The Third Dimension of Education.

- **Jalatharangam -2016**

Jalatharangam 2016-a programme organised in association with the State Bank of Travancore was about cost effective rain water harvesting by taking rainwater pits.

- **World Environment Day Celebration-June 5, 2015**

The department celebrated World Environment day by planting saplings in the University Campus Premises.

- **Two Day National Seminar on Relevance of Yoga in Modern Life, 18-19 March 2016**

The Department organised a Two days National Seminar on the Relevance of Yoga in Modern Life. The seminar was organized in association with the Centre for Yoga and Naturopathy and Kottayam District Yoga Sports Association at the SGTDS Seminar Hall.

- **One Day Workshop on Career Guidance on 29/03/2016**

Department of Life Long Learning and Extension has organised One day Workshop on Career Guidance on 29/03/2016 for the students from the affiliated colleges under Mahatma Gandhi University.

- **National Seminar on the Trends and Developments in the Education of Children with Learning Disabilities 7 May 2016**

The department organized a national Seminar on the Trends and Developments in the Education of Children with Learning Disabilities on 7 May 2016.The co-organizer of

the seminar was Institute of Research in Learning Disabilities, School of Behavioural Sciences, MG University.

- **Two Days TCI workshop from May 9th to 11th 2016**

Theme-Centered interaction (TCI) is a concept and a method for working in groups. Its aim is social learning and development of the person. A two day workshop was arranged by the Department of Lifelong Learning and Extension in association with the National Service Scheme of the Mahatma Gandhi University on the above topic.

- **National Seminar on Blood and Organ Donation-Scientific and Motivational Aspects -5th to 7th October 2016.**

The objective of the national seminar was to give some basic ideas on the scientific aspects of organ/blood donation. The seminar also focused on the legal awareness, ethical issues and counseling needs regarding organ/blood so as to eradicate the ignorance among the common people in this regard.

- **International Conference –“Envision- A holistic View on Empowering Women: 15-16 November, 2016**

The objective of the seminar was to stimulate a holistic progress in women empowerment by creating an encouraging environment for social change for a good cause. The Conference brought together eminent Scholars, academicians, policy makers, researchers, social workers, NSS volunteers, students and experts from India and abroad to discuss the multi- dimensional aspects in empowering women.

The recommendations of the Conference was submitted to the policy makers and other concerned departments for information.

- **Department/Society Linkages in Extension Activities**

- Athirampuzha Grama Panchayat – Adoption of Ward 4 and Ward 8 for Socio-Economic Development Initiatives
- Athirampuzha Grama Panchayat- Adoption of Kattathy Government LPSchool, to be converted as a model school.
- Kottayam Municipality- Swatcha Bharata Abhiyan
- Kottayam District Panchayat- Awareness program on Life Style Diseases
- Southern Railways, Kottayam- Government Sponsored Public Awareness Programme
- Health Department- Awareness program on Infectious diseases and sanitation
- Prisons- Counselling
- Legal Literacy Mission- Love Kottayam Project
- Vigilance And Anti-Corruption Bureau – Youth Against Corruption
- Information Kerala Mission- Vivaranidhi- e-Governance for citizens

- St. John of God, Pampady- Counselling
- Molly Pauls Farm- Organic Farming
- Vrindavanam Garden, Ettumanoor- Organic Farming
- Amrutham Naturopathy Centre, Vazhoor, Sensitisation on Food habits, Yoga
- Aswasabhavanam, Pampady, Counselling
- Gurukulam, Pampady, Counselling
- MariyaSadanam, Palai- Counselling, Yoga training
- Trada, Manganam - Counselling
- Collaborated with the Alumni of the Department to adopt a Tribal Village in Edamalakudi

FIELD VISITS

- The Certificate Course in Counselling students visit the following places
 - St. John of God, Pamapady
 - Aswasabhavan, home for the children of Prisoners, Pampady, Kottayam
 - Mariya Sadhanm Pala
 - Trada, Manganam
- The Certificate Course in Yogic Science students visit the following places
 - Amrutham Naturoopathy Centre, Vazhoor
- The Certificate Course in Management of Learning Disabilities students visit the following organizations
 - Gurukulam, Pamapady
 - St. John of God, Pamapady
- The Certificate Course in Organic Farming students visit the following Fields.
Organic Farms owned by Baiju, Prakasan Cherthala.
Vrindavan Garden, Ettumanoor.

48. Give details of “beyond syllabus scholarly activities” of the department

| | |
|-----|--|
| 1. | Adoption of village for Socio-Economic Development Initiatives |
| 2. | Adoption of Kattathy Government LPSchool, to be converted as a model school. |
| 3. | Kottayam Municipality- SwatchaBharataAbhiyan |
| 4. | Kottayam District Panchayat- Awareness program on Life Style Diseases |
| 5. | Southern Railways, Kottayam- Government Sponsored Public Awareness Programme |
| 6. | Health Department- Awareness program on Infectious diseases and sanitation |
| 7. | Prisons- Counselling |
| 8. | Legal Literacy Mission- Love Kottayam Project |
| 9. | Vigilance And Anti-Corruption Bureau – Youth Against Corruption |
| 10. | Information Kerala Mission- Vivaranidhi- e-Governance for citizens |
| 11. | Kottayam Municipality- SwatchaBharataAbhiyan |
| 12. | Kottayam District Panchayat- Awareness program on Life Style Diseases |

49. State whether the programmes/department is accredited/ graded by other agencies?: No

50. Briefly highlight the contributions of the department in generating new knowledge basic or applied:

The department contribute to the production of new knowledge in various ways. Publications of the faculties are one such way.

51. Detail five major Strengths/Weakness, Opportunities and Challenges

Strengths

- Centre of Excellence for disseminating knowledge through the non-formal method.

- Phenomenal growth of students due to credibility and cost-effectiveness of the system.
- Increased acceptance by various agencies.
- Excellent Staff strength.
- Extensive, efficient and functionally effective network for diversified student support and collaborative learning.

Weakness

- Access not beyond district level
- Inadequate mechanism for continuous professional development of faculty and staff due to financial problem
- Lack of funds to promote collaborative inter-university alliances/consortium
- Lack of browsing facilities for the students
- Lack of international collaboration

Opportunities

- Ever increasing opportunities for higher education and up gradation of life-coping skills.
- Scope for imparting education using emerging technologies
- Need for continuous training of a huge workforce in the developing countries with large populations, projects and plans
- Focussing on disadvantaged groups and less developed regions

Challenges

- Continuing professional development of faculty and staff, especially for technology-enabled education and training
- Continued efforts required to upgrade standards in the context of global competition.
- Attracting best talent and retaining them
- Sustain quality education under resource constraints and pressure of large numbers
- National and international networking

52. Future plans of the department

- To become centre of excellence in the national level in Lifelong Learning and Extension



- To start M.A in Counselling.
- To start online courses in Counselling & Management of Learning Disabilities etc (6 month certificate courses.
- To start a Civil Services Coaching Centre at the Department and to give coaching for preliminary, Main and Interview.
- To develop the department as a Skill Development Centre.
- To adopt an entire village as a live lab for the extension activities of the Department.

DEPARTMENT OF PRINTING AND PUBLISHING

| | | | |
|-----|---|---|--|
| 1. | Name of the Dept: | : | DEPARTMENT OF PRINTING AND PUBLISHING |
| 2. | Year of establishment | : | 1988 |
| 3. | Is the Department part of a School/Faculty of the university? | : | NA |
| 4. | Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) | : | NIL |
| 5. | Interdisciplinary programmes and departments involved | : | The activities of the department are highly interdisciplinary where the department publishes books related to Humanities Social Science , Science and Arts |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | : | NIL |
| 7. | Details of programmes discontinued, if any, with reasons | : | NIL |
| 8. | Examination System | : | Not Applicable |
| 9. | Participation of the department in the courses offered by other departments: | : | Preparing books in the syllabus of UG and PG courses of the University |
| 10. | Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/Asst. Professors/others) | : | NA- This is not a teaching Department |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance: NA

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Not Applicable

13. Percentage of classes taken by temporary faculty – programme-wise information:

Not Applicable

14. Programme-wise Student Teacher Ratio: Not Applicable

15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual):

Administrative Staff

Director- Vacant

Technical Staff

Cultural Officer – Retired from service on 30-11-16

Asst Editor (Malayalam) – Retired from service voluntarily on 31-7-16

Asst Editor (English) – On leave

Office Staff : 3 (Permanent -2, Temporary -1)

16. Research thrust areas as recognized by major funding agencies

- Publishing books prescribed in the syllabus of Under Graduate and Post Graduate Courses of Mahatma Gandhi University
- Co-publishing books (that are very much helpful to the society) with famous publishers
- Selling rare and famous books published by different publishers through the book stall run by the Department

17. Number of faculty with ongoing projects from a) national b) international funding Agencies and c) Total grants received. Give the names of the funding agencies, Project title and grants received project-wise: Not Applicable

18. Inter-institutional collaborative projects and associated grants received**Books published by the Department from 2010**

| Sl. No | Title of Books | Co-Publishing with |
|---------------|---|---------------------------|
| 1 | UNDERSTANDING INDIA : REFLECTIONS ON INDIAN POLITY | MACMILLAN PUBLISHERS |
| 2 | SAHITHYA DARPAN | MGUCCS |
| 3 | VAACKUM DRISYAVUM | MGUCCS |
| 4 | SAHITHYA MANJUSHA | MGUCCS |
| 5 | EZHUTHINTE VAZHICAL | MGUCCS |
| 6 | GADYA VITHANAM | MGUCCS |
| 7 | SAMSKRITHIK VIRASATH | MGUCCS |
| 8 | VISWA BHARATHI | MGUCCS |
| 9 | EVOLUTION OF THE PHILOSOPHY OF SCIENCE- LITERARY PERSPECTIVES | ANE BOOKS |
| 10 | EXECUTIVE COMMUNICATION | VIKAS PUBLISHING HOUSE |
| 11 | INDIAN ETHOS AND VALUES | VIKAS PUBLISHING HOUSE |
| 12 | STATISTICS FOR MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 13 | ENVIRONMENTAL MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 14 | PRINCIPLES OF MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 15 | FINANCIAL ACCOUNTING | VIKAS PUBLISHING HOUSE |
| 16 | ECONOMICS FOR BUSINESS | VIKAS PUBLISHING HOUSE |
| 17 | DATA PROCESSING | VIKAS PUBLISHING HOUSE |
| 18 | BUSINESS MATHEMATICS | VIKAS PUBLISHING HOUSE |
| 19 | INDIAL LEGAL SYSTEM | VIKAS PUBLISHING HOUSE |
| 20 | E-BUSINESS | VIKAS PUBLISHING HOUSE |
| 21 | COST AND MANAGEMENT ACCOUNTING | VIKAS PUBLISHING HOUSE |
| 22 | ORGANISATIONAL BEHAVIOUR | VIKAS PUBLISHING HOUSE |
| 23 | HUMAN RESOURCE MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 24 | FUNDAMENTALS OF MARKETING | VIKAS PUBLISHING HOUSE |
| 25 | MANAGEMENT INFORMATION SYSTEM | VIKAS PUBLISHING HOUSE |



| | | |
|----|--|-------------------------|
| | | |
| 26 | PRODUCTION MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 27 | OPERATIONS RESEARCH | VIKAS PUBLISHING HOUSE |
| 28 | FINANCIAL MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 29 | RESEARCH METHODOLOGY | VIKAS PUBLISHING HOUSE |
| 30 | ORGANISATIONAL STUDY | VIKAS PUBLISHING HOUSE |
| 31 | PROJECT MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 32 | STRATEGIC MANAGEMENT | VIKAS PUBLISHING HOUSE |
| 33 | EPPADI PADINARO | SPCS |
| 34 | VASTHU VIDYA- THATHWAVUM CHARITHRAVUM | VASTHU VIDHYA GURUKULAM |
| 35 | VASTHU VIDYA - SAMOOHA VINYASAM | VASTHU VIDHYA GURUKULAM |
| 36 | VASTHU VIDYA - PRASNAVUM PRATHIVIDHIYUM | VASTHU VIDHYA GURUKULAM |
| 37 | VADAKKAN PATTU KATHAKAL | DC BOOKS |

No grant was received for these projects. The royalty collected during the period is as follows

| Summary of Royalty Earned | |
|---------------------------|------------------------|
| Year | Amount (₹ in Lakhs) |
| 2010 | 2.32 |
| 2011 | 3.23 |
| 2012 | 3.12 |
| 2013 | 3.05 |
| 2014 | 0.90 |
| 2015 | 2.00 |
| 2016 | 4.02 |
| Total | 18.68 Lakhs |

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil

20. Research facility / centre with

| | |
|---|-----|
| <ul style="list-style-type: none"> • State recognition: • National recognition: • International recognition: | NIL |
|---|-----|

21. Special research laboratories sponsored by / created by industry or corporate Bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | Nil |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | 37 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 37 |

Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) Nil

Citation Index – range / average : Not Applicable

SNIP : Not Applicable

SJR : Not Applicable

Impact Factor – range / average : Not Applicable

h-index : Not Applicable



23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated:

Income generated through Royalty earned by Co publishing books with leading publishers.

| Summary of Royalty Earned | |
|---------------------------|------------------------|
| Year | Amount (₹ in Lakhs) |
| 2010 | 2.32 |
| 2011 | 3.23 |
| 2012 | 3.12 |
| 2013 | 3.05 |
| 2014 | 0.90 |
| 2015 | 2.00 |
| 2016 | 4.02 |
| Total | 18.68 Lakhs |

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Not Applicable

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) : NIL

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): NIL

28. Student projects:

- percentage of students who have done in-house projects including interdepartmental projects: **Not applicable**
- percentage of students doing projects in collaboration with other universities / industry / institute: **Not applicable**

29. Awards / recognitions received at the national and international level by :

Not Applicable

30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any : NIL

31. Code of ethics for research followed by the departments: Not Applicable

32. Student profile programme-wise: Not Applicable

33. Diversity of students: Not Applicable

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

Not Applicable

35. Student progression : Not applicable

36. Diversity of staff : Not Applicable

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

Nil

38. Present details of departmental infrastructural facilities with regard to

- a. Library – Equipped with 2746 books
- b. Internet facilities for staff and students – Available
- c. Total number of class rooms - NOT APPLICABLE
- d. Class rooms with ICT facility: Nil
- e. Research laboratories: Nil

39. List of doctoral, post-doctoral students and Research Associates : Nil

40. Number of post graduate students getting financial assistance from the university:
Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology : Nil

42. Does the department obtain feedback from

- i. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Not applicable

- ii. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Not applicable



- iii. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Not applicable

43. List the distinguished alumni of the department (maximum 10): Nil

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts: Nil

45. List the teaching methods adopted by the faculty for different programmes: Nil

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? – Not Applicable

47. Highlight the participation of students and faculty in extension activities :

Not Applicable

48. Give details of “beyond syllabus scholarly activities” of the department:

NOT APPLICABLE

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. - Not Applicable

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Published 37 books on co-publishing basis during the period from 2010 to 2016 with different leading publishers.
- Published E-book “VADAKKAN PATTUKATHAKAL” – first by an Indian University
- Selling rare and famous books (with sufficient discounts) published by different publishers through the book stall run by the Department so that these books are easily available to the society

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

- i) Co-publishing books with other publishers helps to publish rare books which are helpful to the students and common people of Kerala.
- ii) Publishes books for UG / PG courses of the University which helps the students of affiliated colleges.
- iii) Runs a book stall in the University campus through which very rare books are made available to the public as well as to the student community.

- iv) Department library has rare collection of books in connection with Printing Industry.
- v) Generates income to the University through Co-publishing as well as through own publication

Weakness:

- i. Four main posts are vacant now
 - Director- Retired from service
 - Asst Editor (Malayalam) – Retired Voluntarily
 - Asst Editor (Eng)- On leave
 - Cultural Officer – Retired from service on 30-11-16
- ii. Lack of printing machinery compels the department to depend external agencies to complete the work
- iii. Since no courses are conducted by the Department, growth of the Department is limited
- iv. Lack of library staff
- v. Lack of space

Opportunities:

- i. The department has successfully published first E-book by an Indian University. Similar ventures may be completed in the future.
- ii. Many more books related to culture of Kerala can be published (now publishing books related to “Vasthu Vidya” in collaboration with Vasthu Vidya Gurukulam)
- iii. Publishing books / study materials of other Universities may broaden the role of the Department and will generate much more income to the University
- iv. Research works of the students of various Departments can be published through proper channel so that the wide information may be made available to the society

Challenges:

- i. Lack of Permanent employees who has educational background related to printing
- ii. Generation of better output with the available resource and facilities.
- iii. Lack of sufficient space, infrastructure and machinery.
- iv. Utilizing effective linkages with Printing industry

52. Future plans of the department.

- Publishing various books related to topics which are not covered by private publishers.
- New ventures like E-book in connection with our affiliated colleges



- Starting courses related to Printing will help the student community
- By purchasing machinery and appointing technical persons, a wide printing needs of the University can be covered here itself. Especially confidential documents related to examinations



MAHATMA GANDHI UNIVERSITY

Vol. II-B

**Evaluative Report of the Centres/
Constituent Colleges/Institutions**

Submitted to

National Assessment and Accreditation Council
for Re-accreditation

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INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY

| | | | | | | |
|-----|---|---|--|------------|--------|------------------------------|
| 1. | Name of the Department | : | International and Inter University Centre for Nanoscience and Nanotechnology | | | |
| 2. | Year of establishment | : | 2009 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc.) | : | <ul style="list-style-type: none"> • Faculty of the Science • Faculty of Technology and Applied Sciences • MS in Nanoscience and Nanotechnology • M.Phil. in Nanoscience and Nanotechnology • Integrated Ph.D in Nanoscience and Nanotechnology • Ph.D in Nanoscience and Nanotechnology | | | |
| 5. | Interdisciplinary programmes and departments involved | | The programmes in the centre are interdisciplinary nature. The courses in Nanosciences and Nanotechnology involve Physics, Chemistry, Biology, Polymer Science, Material Science and Engineering Sciences | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | | Yes, <ul style="list-style-type: none"> • Students undertake project work in National and International institutions (MS students go for One year project work in abroad and Integrated M.Sc.-Ph.D students have 6 month project work abroad as specified in the syllabi • MOOC course in collaboration with North Carolina state University .USA | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | Yes, Integrated M.Sc.-Ph.D and M.Phil programmes were discontinued due to less number of permanent faculties in the centre. MS programme has been modified as a new technological programme entitled M.Tech course in Nanoscience and Nanotechnology. This is based on the direction of UGC. | | | |
| 8. | Examination System | | Semester (Choice Based Credit System) | | | |
| 9. | Participation of the department in the courses offered by other departments | | Open Course on Nanoscience and Nanotechnology is offered as interdisciplinary course for all students from the campus | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/Asst. Professors/ others) | | | Sanctioned | Filled | Actual (including CAS & MPS) |
| | | | Professor | Nil | Nil | Nil |
| | | | Associate Professors | Nil | Nil | Nil |
| | | | Asst. Professors | Nil | Nil | Nil |
| | | | Others Adjunct faculty from other departments | 3 | 3 | 3 |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.

| Name | Qualification | Designation | Specialization | No. of years of Experience | No. of Ph.D./M.P hil. Students guided for the last 6 years |
|---------------------------|-----------------------------------|-------------------------|--|----------------------------|--|
| Prof. Dr. Sabu Thomas | B.Tech, Ph.D, D.Sc., FRSC, C.Chem | Hon. Director Professor | <ul style="list-style-type: none"> - Polymer blends - Fiber filled polymer composites - Particulate filled polymer composites - Interpenetrating polymer systems - Scaffolds for tissue engineering - Nanocomposites for water purification - Nanocomposites for electronic application | 30 | Ph.D-2 M Phil-12 |
| Dr. Nandakumar Kalarikkal | Ph.D | Associate Professor | <ul style="list-style-type: none"> - Nanomultiferroics - Nanosemiconductors and Nanophosphors - Nanoferroelectrics - Nanoferrites - Nanomedicine - Nanosensors - Ion beam irradiation effects & Phase transitions | 20 | Ph.D - 2 M Phil - 8 |
| Dr.Raji V. | Ph.D | Asst. Professor | Cancer Biology Nano Drug Delivery | 5 | M Phil –3 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl. No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|--------|----------------------------------|---|---|
| 1. | Prof. C.N. R. Rao | Visiting Professor | Nanoscience and Technology |
| 2. | Dr.Rameshwar Adhikari | Visiting Professor | Fracture Mechanics, Polymer Blends and Composites |
| 3. | Dr.Vijayamohanan K Pillai | Visiting Professor | Material Science |
| 4. | Dr.Baldev Raj | Visiting Professor | Material Science |
| 5. | Prof.SreckoValic | Visiting Professor | Material Science |
| 6. | Prof.Abderrahim Boudenne | Visiting Professor | Polymer Science |
| 7. | Prof. B.A Wolf | Visiting Professor | Polymer Science |
| 8. | Dr.Ashish K Lele | Visiting Professor | Polymer Rheology |
| 9. | Prof. Suresh Valiyaveetil | Visiting Professor | Nanocomposites |
| 10. | Prof R Damodharan | Visiting Professor | Material Science |
| 11. | <u>Prof.JuergenPionteck</u> | Visiting Professor | Polymer Blends |
| 12. | Prof. Samuel Oluwatobi Oluwafemi | Visiting Professor | Chemistry, Nanoscience |
| 13. | Prof. Manfred Stamm | Visiting Professor | Polymer Physics, Nanoscience |
| 15. | Prof. Ajay K. Sood | Visiting Professor | Material Science |
| 16. | Dr. Dominique Durand | Visiting Professor | Material Science |
| 17. | Prof. Christopher Sinturel | Visiting Professor | Material Science |
| 18. | Dr.Latha M S | Adjunct Faculty | Drug Delivery |
| 19. | Dr. Geethamma V.G. | Adjunct Faculty | Polymer Technology |
| 20. | Dr. S. Anas | Adjunct Faculty | Organic Chemistry |
| 21. | Prof. ANil Kumar | Adjunct Faculty | Organic Chemistry |
| 22. | Prof. M. Padmanaban | Adjunct Faculty | Inorganic Chemistry |
| 23. | Prof. M.R Gopinathan Nair | Adjunct Faculty | Polymer Chemistry |
| 24. | Dr.Laly A Pothan | Adjunct Faculty | Polymer Chemistry |
| 25. | Prof Lovely Mathew | Adjunct Faculty | Polymer Chemistry |
| 26. | Prof. Sony C George | Adjunct Faculty | Nanoscience |



13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programmes | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|-----------------|---------|---------|---------|---------|---------|
| MS | 34 % | 42 % | 51 % | 52 % | 47 % |
| M.Phil. | 48% | 56 % | 43 % | 61 % | 51 % |
| Integrated Ph.D | -- | -- | -- | 50% | 49% |

14. Programme-wise Student Teacher Ratio:

| Programme | Student Teacher Ratio |
|------------------|-----------------------|
| MS | 3:1 |
| M.Phil. | 4:1 |
| Integrated Ph.D. | 4:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|-----------------------------|------------|-------------------|
| Technical | 0 | 2 (contract) |
| Administrative Staff | 0 | 3 (contract) |

16. Research thrust areas as recognized by major funding agencies

Areas of Research:

- Polymer nanocomposites for water purification
- Polymer blends and composites
- Polymeric nanocomposites for electronic application such as sensing, EMI shielding, etc
- Elastomeric nanocomposites for neutron shielding application
- Polymeric nanocomposites for packaging application
- Nanostructured polymer blends and composites
- Biopolymeric material for wound healing application
- Polymer Quantum Dot for cell imaging application

- Synthesis and characterization of polysaccharides and various technological application
- Photovoltaic solar cell
- Cavitation Bubbling during Liquid Phase Laser Ablation
- Nano electronics

Fund received from: Aeronautics R & D Board, UGC, DST, DBT, BRFST, BRNS, MeitY, ISRO, CSIR, Indian Council of Medical Research, DRDO, MRF Tyres.

17. Number of faculty with ongoing projects from a) national- b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project – wise.

a) National

| Sl. No | Title of the Project | Duration | Funding Agency | Amount (₹ in Lakhs) |
|--------|--|-----------------------|-----------------|---------------------|
| | Prof. Sabu Thomas | | | |
| 1. | Rod-coil type block copolymers and their composites as functional nanostructured materials for soft electronics | 2016-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 2. | Development of a magnetic field sensor based on multiferroic laminar composite | 2016-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 3. | Poly(lactic acid) nanocomposites for packaging applications | 2015-2018 (3 Years) | DST-Kothari PDF | 17.86 |
| 4. | Development of ZnO based solar cells sensitized by dyes and biological molecules | 2015-2018 (2 years) | DST-Kothari PDF | 20.00 |
| 5. | Polymer Quantum Dot aptamer hybrid conjugate for hepatocellular carcinoma cell imaging application | 2015-2017 (2 years) | KSCSTE - PDF | 9.44 |
| 6. | Size dependent antimicrobial activity and mode of action of nanoparticles emphasized with Ag nanoparticles against multiple drug resistant pathogens | 2015-2018 (3 Years) | DST-Kothari PDF | 20.16 |
| 7. | Novel thermoplastic elastomer composition for neutron shielding applications | 2015 – 2017 (2 Years) | DAE, BRNS | 34.66 |
| 8. | Engineering biopolymeric twin skip patch (tsp) matrices for wound healing applications | 2015-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 9. | Hybrid nanocomposites of natural rubber/chlorobutyl rubber blends for automotive inner liners and inner tubes | 2014-2016 (3 Years) | DST-Kothari PDF | 18.20 |
| 10. | Engineering of nano-structured high performance epoxy/liquid rubber blends with controlled nanoparticle localization | 2014-2017 (3 Years) | CSIR | 14.92 |



| | | | | |
|---------------------------------|--|-------------------------|------------------|--------|
| 11. | Development of super tough Thermoset from self-assembled nanostructured block copolymer/epoxy resin blends | 2014-2017 (3 Years) | DRDO | 29.62 |
| 12. | Miscibility, morphology and properties of NR/SBR and BR based binary and ternary rubber blends and the influence of carbon black and silica filler distribution on blend properties | 2014-2017 (2.5Years) | MRF | 3.00 |
| 13. | Development of engineered nanostructured materials for high performance application | 2010-2013 | DST Nano Mission | 524.06 |
| 14. | Development of multi walled carbon nanotube filled polycarbonate/polypropylene double percolating conductive polymer blend nanocomposites for electromagnetic interference shielding Gaskets for mobile phones | 2012-2015 | MeitY | 41.82 |
| 15. | High performance nylon clay nanocomposites for dental applications | | ICMR | 25.00 |
| Dr.Nandakumar Kalarikkal | | | | |
| 16. | Design and applications of magnetically responsive self-assembled polymer nanocomposites | 2016-2019 (3 Years) | DST Nano Mission | 200.00 |
| 17. | Physics of Cavitation Bubbling and Hydrogen Generation during Liquid Phase Laser Ablation | (2015-2017) | BRFST-BRNS | 34.96 |
| 18. | Development of one-dimensional multi-ferroic nanocomposites for device applications | 2015 - 2017 | KSCSTE | 10.00 |
| Dr.Raji V | | | | |
| 19. | AuNP/LDH core shell nanoparticles a novel multifunctional candidate for gene delivery | 2016-2018 (2 Years) | KSCSTE | 15.00 |

b) International: Prof.Sabu Thomas

| Sl. No | Title of the Project | Duration | Funding Agency | Amount (Rupees in Lakhs) |
|--------|--|--------------------------|--|--------------------------|
| 1. | Studies on cellulose nanocrystals and their applications in nanocomposites with varying technological applications | 2014 – 2017 (3 Years) | DST (Indo-Brazil) International Bilateral co-operation | 27.29 |

Total grant received: ₹ 1096.99 Lakhs

18. Inter-institutional collaborative projects and associated grants received**a) National collaboration**

| SL.No | Project Title | Funding agencies | Total Fund in Lakhs (₹) |
|-------|---|------------------|-------------------------|
| 1. | DBT builder programme with School of Bio Sciences | DBT | 450.00 |

b) International collaboration

| SL No | Project Title | Funding agencies | Total Fund (₹ in Lakhs) |
|-------|---|--|-------------------------|
| 1. | Nano biomaterials water purification | Researcher Links scheme offered within the Newton Fund, the British Council & Royal Society of Chemistry, London | 5.00 |
| 2. | Crosslinked polyethylene nanocomposite for cable insulating application | University of Mara, Malaysia | 3.00 |

Total grants received: ₹ 458 Lakhs**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:**

| SL No | Funding Agency | Project | Grants received (₹ in lakhs) |
|-------|----------------------------|--|------------------------------|
| 1. | MeitY | Visvesvaraya Ph.D Scheme for Electronics and IT | 89.77 |
| 2. | SARD | KCSTE under SARD Project | 29.60 |
| 3. | Plan Fund, Govt. of Kerala | Nanoscale Materials for water purification and fabrication of nano composites for Biomedical application | 100.00 |
| 4. | | University-Industry Collaboration and Development of New Technologies | 40.00 |
| 5. | | Online course on Introduction to Nanoscience and Nanotechnology | 50.00 |

Total grants received: ₹ 309.37 Lakhs



20. Research facility / centre with

- State recognition :Yes
- National recognition :Yes
- International recognition :Yes

21. Special research laboratories sponsored by / created by industry or corporate bodies

Sponsored laboratory: 1 International Laboratory

An Ingenuity Lab Research Hub was set up in collaboration with International and Inter University Centre for Nanoscience Nanotechnology (IIUCNN) at Mahatma Gandhi University in Kottayam, Kerala India. The focus of this new, unique, and collaborative facility is to implement applied research to fight for good health, good water and good environment. Ingenuity Lab is an initiative established by the province of Alberta at university of Alberta in Canada, led by Professor Carlo Montemagno, to bring the best minds together to address global challenges. Ingenuity Lab is selected as the Best Nanotechnology Research Organization in 2014 by “The New Economy” (www.ingenuitylab.ca). IIUCNN at Mahatma Gandhi University, led by Professor Sabu Thomas, carries a strong vision to perform and coordinate academic and research activities in the frontier areas of Nanoscience and Nanotechnology by incorporating physical, chemical, biological and environmental aspects. Dr. Babu Sebastian, Honorable Vice Chancellor of Mahatma Gandhi University inaugurated the ingenuity lab of University of Alberta at IIUCNN in the presence of Prof. Carlo, Director, Ingenuity lab. Vice chancellor also signed an MoU on the same day to intensify mutual collaboration between Mahatma Gandhi University and Ingenuity lab.

22. Publications:

| Sl. No | Publications | Total |
|---------------|---|--------------|
| 1. | Refereed Journal Publications | 269 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 23 |
| 4. | Chapters in Books | 43 |
| 5. | Edited Books | 52 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 387 |

23. Details of patents and income generated: Nil

| SL No | Patent details |
|-------|---|
| 1. | Biodegradable, Biocompatible Wound Healing Dressing Film and ointment from the Biocomposite of Marine Origin, Indian Patent application: 840/DEL/2013, M. Kurup and Sabu Thomas |
| 2. | Method for improving the comparative tracking index of polymer composites, Indian patent Application No:4239/CHE/2014, Harinarayanan Puliylalil, Uros Cvelbar, MiranMozetic, Sabu Thomas. |
| 3. | A polymer Nanocomposite, Process And Application there-of ,WIPO Publication number: WO2016142848 A1, Publication date: Sep 15, 2016, and Indian patent Application No: 638/DEL/2015 Mohammed Arif P, Sabu Thomas, Nandakumar Kalarikkal |

24. Areas of consultancy and income generated:

| SL. No | Description | Income generated (in Lakhs) |
|--------|---|-----------------------------|
| 1. | Student projects (1 month to 12 months) | 0.95 |
| 2. | Testing and analysis of polymeric samples | 10.00 |
| 3. | Consultancy with industry (Plant Lipids) | 3.50 |
| | Total | 14.45 |

- Plant Lipids India Ltd. consults our centre quite often for the development of nanoparticle and plant derived medicine.
- Several colleges in Kerala and outside consult our centre for project work

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad:

Nationally : Prof. Sabu Thomas: Invited Lecture

| Name of Programme | Institute | Date |
|--|---|------------------------------|
| National Seminar on Nanotechnology and renewable Energy | K.E College, Kottayam | Oct 30-31 st 2013 |
| National Seminar on Current trends Chemistry(CTric 2014) | Cochin University of Science and Technology | 2014 |
| National Seminar on Perspectives | Marthoma College of Science and | 7 th November |



| | | |
|---|--|--|
| in Material Science | Technology Ayur | 2014 |
| National Seminar on Recent Approaches in Biochemical Research (RABR -2014) | Department of Biotechnology, Thiruvanthapuram, Kerala. | 2014 |
| National Seminar on Recent Advances in Nanoscience RANSS 14 | Auxillum College Vellore Tamil Nadu | 21-22 November 2014 |
| Advances in Biotechnology 2014 (CUSAT) | Cochin University of Science and Technology | 15 TH -16 TH December 2014 |
| UGC Sponsored National Seminar "Advanced topic in Chemistry-ATC 2015 | Sree Narayana College Nattika | 19-20 August 2015 |
| Recent Advances in Spectroscopy: A Chemical and Biological perspective –II | Newman College ,Thodupuzha | 14-15 September 2015 |
| Recent Advance in Spectroscopy a chemical and Biological perspective -2 | Newman College Thodupuzha | 14-15 Sep 2015 |
| Emerging Nanomaterials NSEN - 2015 | Deva MATHA College ,Kuruvilangad | 6 th January 2015 |
| International CONFERENCE ON Understanding Contemporary India | ICCS, Mahatma Gandhi University | 14-15 January 2016 |
| International Conference on Advances in applied Mathematics, Materials Science and Nanotechnology for Engineering and Industrial application.IC-AMMA-2K16 | Federal INSTITUTE OF Science and Technology (FISAT) | JANUARY 2016 |

Dr. Nandakumar Kalarikkal : Invited lecture

| Name of Programme | Institute | Date |
|--|---|----------------------|
| National Conference on Recent Advances in Correlated Electron Systems | Indian Institute of Technology, Guwahati | 18-20 January 2010 |
| International Conference on Nanomaterials; Synthesis, characterization and applications | Mahatma Gandhi University, Kottayam, Kerala | 27-29 April 2010 |
| Second International Conference on natural polymers, bio-Polymers, biomaterials, their composites, Blends, IPNs and Gels, Polyelectrolytes and Gels: | Mahatma Gandhi University, Kottayam, Kerala | 24-26 September 2010 |



| | | |
|--|--|---|
| Macro to Nano Scales-ICNP-2010 | | |
| First International Conference on Composites and Nanocomposites-ICNC-2011 | Mahatma Gandhi University, Kottayam, Kerala | 7-9 January 2011 |
| Theme meeting on Utilization of National Facility for Neutron Beam Research (NFNBR) | Bhabha Atomic Research Centre, Mumbai | October17-18, 2011 |
| Third International Conference on Frontiers in Nanoscience and Technology-Cochin Nan0-2011 | Cochin University of Science and Technology, Cochin | 14-17 August 2011 |
| Deakin India Research Initiative (DIRI) Symposium 2011 – Frontiers in Science’ | TERI Deakin Nano Bio Research Centre, Gurgaon, Haryana | 21-23November, 2011 |
| First International Conference on Plasma Processing of Organic Materials and Polymers-PPOMP-2011 | Mahatma Gandhi University, Kottayam | 25-27November 2011 |
| UGC Sponsored National Seminar on Current Developments in Nano Materials | Catholicate College, Pathanamthitta | 7-9 December 2011. |
| 28th National Symposium on Plasma Science & Technology(PLASMA – 2013) | KIIT University, Bhubaneswar. | 3rd December to 6 th December 2013 |
| International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015 | Cochin University of Science and Technology, Cochin | 4-7 Feb 2015 |
| Deakin India Research Initiative-Symposium-2015 | The Energy and Resources Institute, Delhi. | December 6-9, 2015 |
| Three day lecture in ‘Key Parameters in Science Park Management’ | Iran | December18-20, 2015 |

International

| Sl. No. | Name of the university/industry | Date | Purpose |
|--------------------------------------|---|--------------------------|---------------------------|
| Prof. Sabu Thomas (2010-2016) | | | |
| 1 | Distinguished Professorship, Josef Stefan Institute, Slovenia | 2010 October to 2010 Nov | Visiting professor |
| 2 | University Technology Mara (UiTM), Malaysia | 2010 Dec | Senior Visiting Professor |
| 3 | University of Strasbourg, Strasbourg, France | 2011 April- 2011 June | Visiting Professor |
| 4 | University of Burgos, Burgos, Spain | 2011 July 2011 July | Visiting Speaker |
| 5 | University Technology Mara (UiTM), Malaysia | 2011 Dec. 2011 Dec | Senior Visiting Professor |



| | | | |
|----|---|-----------------------|---------------------------|
| 6 | Changwon University, Pusan, Korea | 2012 Feb | Invited Guest Professor |
| 7 | Universite Lorraine, Nancy, France | 2012 April- May | Visiting Professor |
| 8 | University of Strasbourg, France | 2012 June | Visiting Professor |
| 9 | University of Paris, France | 2012 July | Visiting Professor |
| 10 | Adam Mickiewicz University, Poznan, Poland | 2013 Feb | Visiting Professor |
| 11 | University Technology Mara (UiTM), Malaysia | 2013 October | Senior Visiting Professor |
| 12 | University Technology Mara (UiTM), Malaysia | 2013 December | Senior Visiting Professor |
| 13 | University Technology Mara (UiTM), Malaysia | 2014 April | Senior Visiting Professor |
| 14 | Warsaw University of Technology, Warsaw, Poland | 2014 June | Visiting Professor |
| 15 | LIMATB, France | 2015 March | Visiting Professor |
| 16 | Institute of Chemistry, University of GRAZ, Austria | 2015 May | Visiting Professor |
| 17 | University of Armenia | 2015 September | Visiting Professor |
| 18 | Qilu University of Technology, Jinan, China | 2015 December | Visiting Professor |
| 19 | Hong Kong Polytechnique, Hong Kong | 2016 August/September | Visiting Professor |
| 20 | Federal University of Uberlândia, Brazil | 2016 September | Visiting Professor |
| 21 | Institute of Biophysics of Russian Academy of Science, Siberian Federal University, Russia. | 2016 October | Visiting Professor |

| Dr. Nandakumar Kalarikkal (2010-2016) | | | |
|--|---|---|--------------------|
| 1 | Key Parameters in Science Park Management | INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS(INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH),IRAN | Visiting professor |

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify)

a) National committees

Prof. Sabu Thomas: Conference advisory committee

| Name of conference/Seminar | Institute | Date |
|--|--|--|
| National Seminar on Nanotechnology and renewable Energy | K.E College, Kottayam | Oct 30-31 st 2013 |
| National Seminar on Current trends Chemistry(CTric 2014) | Cochin University of Science and Technology | 2014 |
| National Seminar on Perspectives in Material Science , | Marthoma College of Science and Technology, Ayur | 7 th Novemeber 2014 |
| National Seminar on Recent Approaches in Biochemical Research (RABR -2014) | Department of Biotechnology, Thiruvanthapuram, Kerala. | 2014 |
| National Seminar on Recent Advances in Nanoscience RANSS 14 | Auxillum College Vellore Tamil Nadu | 21-22 November 2014 |
| Advances in Biotechnology 2014 (CUSAT) | Cochin University of Science and Technology | 15 TH -16 TH December 2014 |
| UGC Sponsored Natinal Seminar "Adavanced topic in Chemistry-ATC 2015 | Sree Narayana College Nattika | 19-20 August 2015 |
| Recent Advances in Spectroscopy: A Chemical and Biological perspective - II | Newman College ,Thodupuzha | 14-15 September 2015 |
| Recent Advance in Spectroscopy a chemical and Biological perspective -2 | Newman College Thodupuzha | 14-15 Sep 2015 |
| Emerging Nanomaterials NSEN - 2015 | Deva MATHA College, Kuruvilangad | 6 th January 2015 |
| International CONFERENCE ON Understanding Contemporary India | ICCS, Mahatma Gandhi University | 14-15 January 2016 |
| International Conference on Advances in applied Mathematics, Materials Science and Nanotechnology for Engineering and Industrial application. IC-AMMA-2K16 | Federal institute of science and Technology (FISAT) | January 2016 |



Dr. Nandakumar Kalarikkal : Conference advisory committee

| Name of conference/seminar | Institute | Date |
|---|--|---|
| National Conference on Recent Advances in Correlated Electron Systems | Indian Institute of Technology, Guwahati | 18-20 January 2010 |
| International Conference on Nanomaterials; Synthesis, characterization and applications | Mahatma Gandhi University, Kottayam, Kerala | 27-29 April 2010 |
| Second International Conference on natural polymers, bio-Polymers, biomaterials, their composites, Blends, IPNs and Gels, Polyelectrolytes and Gels: Macro to Nano Scales-ICNP-2010 | Mahatma Gandhi University, Kottayam, Kerala | 24-26 September 2010 |
| First International Conference on Composites and Nanocomposites-ICNC-2011 | Mahatma Gandhi University, Kottayam, Kerala | 7-9 January 2011 |
| Theme meeting on Utilization of National Facility for Neutron Beam Research (NFNBR) | Bhabha Atomic Research Centre, Mumbai | October 17-18, 2011 |
| Third International Conference on Frontiers in Nanoscience and Technology-Cochin Nan0-2011 | Cochin University of Science and Technology, Cochin | 14-17 August 2011 |
| Deakin India Research Initiative (DIRI) Symposium 2011 – Frontiers in Science’ | TERI Deakin Nano Bio Research Centre, Gurgaon, Haryana | 21-23 November, 2011 |
| First International Conference on Plasma Processing of Organic Materials and Polymers-PPOMP-2011 | Mahatma Gandhi University, Kottayam | 25-27 November 2011 |
| UGC Sponsored National Seminar on Current Developments in Nano Materials | Catholicate College, Pathanamthitta | 7-9 December 2011. |
| 28th National Symposium on Plasma Science & Technology(PLASMA – 2013) | <u>KIIT University, Bhubaneswar.</u> | 3rd December to 6 th December 2013 |
| International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015 | Cochin University of Science and Technology, Cochin | 4-7 Feb 2015 |
| Deakin India Research Initiative-Symposium-2015 | The Energy and Resources Institute, <i>Delhi.</i> | December 6-9, 2015 |

b) International committees

| Name of the faculty | Details |
|----------------------------|---|
| Prof. Sabu Thomas | <ul style="list-style-type: none"> • Visiting Professor at University of Armenia(2015 September) • Course titled “Key parameters in Science Park Management” organized by Inter-Islamic Network on Science and Technology parks (INSTP) Guilan, Iran.(2015 December) • 2014 March, Plenary Speaker, University of Basra, Iraq • 2014, April, Invited Speaker, University Technology, Mara, Malaysia |

| | |
|---------------------------|--|
| | <ul style="list-style-type: none"> • 2014 July, Invited Speaker, Durban University of Technology, Durban, South Africa • 2015 June, ICMAT2015 & IUMRS-ICA2015, 8th International Conference on Materials for Advanced Technologies of the Materials Society of Singapore and 16th IUMRS - International Conference in Asia together with 4th Photonics Conference 2015 • 2015, August 9th National Affinity Techniques Symposium” (AFFTECH 2015); “4th Nanomedicine World Congress (NANOMED 2015)” and “2nd International NanoBioTechnology Symposium” focusing also Nanomedicine (NANOBIOTECH 2015), Dalaman, Turkey & AFFTECH 2015. • 2015, Invited Speaker, Durban University of Technology, Durban, South Africa • 2016 April, Plenary speaker for “XXI IUPAC CHEMRAWN - Solid Urban Waste Management, Rome, Italy., • 2016 April, Invited speaker for (The World Academy of Sciences) TWAS Research Grants Conference - Shaping Careers in Science, Trieste, Italy, 19th to 22nd • 2016 May, Plenary speaker for WasteEng2016, Conference, Albi, France, 23rd to 26 Albi France • 2016 June, Invited speaker for the seminar entitled “King Mongkut’s University of Technology, Bangkok, Thailand. • 2016 October, Institute of Biophysics of Russian Academy of Science, Siberian Federal University, Russia. • 2016 October The International Rubber Conference 2016 Kitakyushu, Japan (IRC2016 Kitakyushu) |
| Dr. Nandakumar Kalarikkal | <ul style="list-style-type: none"> • INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS (INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH), IRAN |

c) Editorial Boards: Editor

| Name of the faculty | Details |
|---------------------|--|
| Prof. Sabu Thomas | <ul style="list-style-type: none"> • Editor, Nano structures and Nano objects, Elsevier |

Editorial Board Memberships: Prof. Sabu Thomas

- SM Journal of Nanotechnology and Nanomedicine
- Nano Advances
- Materials Science and Engineering (Editorial Key Reviewers Committee)



- International Journal Of Advances In Engineering Research
- World Journal of Biotechnology
- Journal of Emerging Materials Technology
- Associate Editor, Bulletin of Materials Science
- Regional Editor of the journal "Current Smart Materials

Academic Referee for Universities and Funding Agencies: Prof. Sabu Thomas

- University of Sains, Malaysia
- University of Calcutta, Calcutta, India
- University of Rajasthan, Jaipur, India
- DST, India
- DBT, India
- CSIR, India
- NRF, South Africa
- EU Projects
- NSF-DST Projects

d) Any other (Reviewer for international journals)

| Name of the faculty | Details | Journal Name |
|----------------------------|-------------------|--|
| Prof. Sabu Thomas | ACS Journals | Macromolecules, Langmuir, Biomacromolecules, Industrial Engineering chemistry, JACS, ACS Nano |
| | RSC Journals | Soft matter, RSC Advances, Polymer chemistry, PCCP, |
| | Elsevier Journals | Polymer, Industrial crops and products |
| | Wiley Journals | Journal of Applied Polymer Science, Composite science and Technology, Journal of Thermal Analysis, Polymer and Polymer composites, Journal of Polymer science Part B: Polymer Physics, Composites Part A and Part B, Polymer composites, Polymer Engineering and sciences, European Polymer journal, Journal of Material Science, Applied clay science |
| Dr. Nandakumar Kalarikkal | Springer | Journal Of Sol-Gel Science and Technology, Journal of Material Science |
| | RSC Journals | RSC Advances |
| | Elsevier Journals | Journal of Magnetism and Magnetic Materials |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

We have organized number of National and International Conferences and Workshops:

1. International conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM-2016) 13-15 May 2016
2. First International Conference on Advanced Materials for Power Engineering , 11-13 December 2015
3. International Conference on Nanostructured Polymeric Materials and Polymer Nanocomposites (ICNPM 2015) on 13, 14 and 15 November 2015
4. World Congress on Microscopy: Instrumentation, Techniques and Applications in Life Sciences and Materials Sciences
5. Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015
6. Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014): 19 – 21 December 2014.
7. International Conference on Plasma & Nanotechnology and 29th National Symposium on Plasma Science & Technology (PLASMA-2014)
8. Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014
9. First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014
10. Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014
11. International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013
12. Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013
13. First International Conference on Advanced Nanocomposite for Construction Materials : 12-14 March 2013
14. India-Israel Meet on Material Science and Nanoscience, February 1, 2013.
15. Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012.
16. First Indo- US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31st March – 2nd April 2012
17. Third International Multicomponent Polymer Conference (ICMPC-2012) 23-25 March-2012.
18. International Conference on Nanomaterials: Synthesis, Charecterisation and Application (ICNM-2012) February- 1-3, 2012
19. Second International Conference on Nanomaterials: Synthesis, Characterization and Applications-ICN 2012 held during 12-15 January 2012
20. International conference on Nanoscience and nanotechnology-2011, November, 12-15, 2011.
21. International conference of waste management-2011(International Conference on Composites and Nanocomposites (ICNC-2011).



Workshops:

1. One Day Outreach Program on Facilitating Innovation and Patent Filing' organized by the MHRD Chair on IPR and Inter University Centre for IPR studies (IUCIPRS), Cochin University of Science and Technology (CUSAT) on 29th February 2016,
2. One Day Outreach Program on Facilitating Innovation and Patent Filing' organized by the MHRD Chair on IPR and Inter University Centre for IPR studies (IUCIPRS), Cochin University of Science and Technology (CUSAT) on Friday, 19th of August 2016.

28. Student projects

| | |
|--|------|
| Percentage of students who have done in-house projects including inter-departmental projects | 0% |
| Percentage of students doing projects in collaboration with other universities/ industry / institute | 100% |

29. Awards / recognitions received at the national and international level

- **by Faculty**

| | |
|--------------------------|---|
| Prof Sabu Thomas | <ol style="list-style-type: none"> 1. Awarded Doctorat Honoris causa-LIMATB, University of South Brittany, France 2015 2. Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014, 3. Awarded Bronze Medal of Chemical Research Society (CRSI) of India, 2013 4. Awarded Materials Research Society of India Award (MRSI), 2013 5. Fellow of the Royal Society of Chemistry, London, FRSC, 2012 6. Distinguished Professorship Award, Josef Stefan Institute, Slovenia, 2010 |
| Dr Nandakumar Kalarikkal | <ol style="list-style-type: none"> 1. Visiting Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India 2. Visiting Professor, Gulbarga University, Gulbarga, Karnataka under SAP scheme of UGC |

• **Doctoral / Post-doctoral fellows –**

| Name | Award |
|----------------------|--|
| Robin Augustine | <ol style="list-style-type: none"> 1. Best poster award, International Conference on Membranes (ICM-2013), MGU 2. Best poster presentation in Second International Conference on Nanomaterials: Synthesis, Characterization and Application India-2013, MGU. 3. Best Poster Presentation Award -International Conference on Advanced Nanocomposite for Construction Materials (ICNC-2013), MGU 4. Best oral presentation award -International Conference on Tissue Engineering and Regenerative Medicine (ICAPM-2013) National Institute of Technology, Rourkela, Odisha 5. Best poster award-Bioradiance 2014 (National level seminar), organized by the Pushpagiri Research Centre, Tiruvalla, Kerala. 6. Third prize for poster presentation ,2nd International Conference of Nano Materials(ICNM)2014, MGU |
| Jemy James | Best Oral Presentation - International Conference On Plasma Science And Nanotechnology, & 29 th National Symposium On Plasma Science And Technology, MGU |
| Preetha Balakrishnan | Best Oral Presentation Award -National Seminar on Material Science and Modern Analytical Techniques on 26 th & 27 th of March 2014 |
| Dr.Praveen.G | <ol style="list-style-type: none"> 1. Best Oral Presentation Award, National Seminar On Biopolymers And Green Composites (BPGC-14) 2. Best Oral Presentation Award, National Seminar On Nanochemistry And Nanobiotechnology (Nanochembio-14) 3. Best Poster Presentation Award (Prof. D.M. Vasudevan Award),In Bioradiance-2015 'National Conference On Frontiers In Diabetic Research And Treatment' 4. Best Oral Presentation Award , UGC Sponsored National Seminar On “Emerging Trends In Nanomaterials” 5. Best paper award ,28th Kerala Science Congress,2016 |
| Jiji Abraham | <ol style="list-style-type: none"> 1. Best Paper Award - National Seminar on Nanostructured Materials (NSM2014),5 2. Best Paper Award, National Seminar On Advanced Polymer Materials(Hesperos 2015), MGU |
| Blessy Joseph | Best Poster Prize International Conference On Holistic Medicine - ICHM 2015, MGU |
| Aneesa .P | Best poster award -Deakin India Research Initiative – International Symposium on Translational Research 2015, New Delhi |



30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|-------------|--|--|--|
| 2015-16 | First International Conference on Advanced Materials for Power Engineering (ICAMPE 2015) : 11-13 December, 2015 | DRDO, New Delhi DST, New Delhi | B. Rožič, M. Lavrič, M. Trček, G. Cordoyiannis, Z. Kutnjak, S. Kralj (Slovenia) M. Saad Alam(India) Judy Wu (USA) |
| | International Conference on Nanostructured Polymeric Materials (ICNPM 2015) : 13-15 November, 2015 | ICMR, New Delhi KSCSTE, Trivandrum | Manfred Stamm (Germany) |
| | World Congress on Microscopy (WCM 2015): 9-11 October, 2015 | DST New Delhi | Leszek A. Dobrzański, M. (Poland) |
| | Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015 | CSIR, New Delhi | Kohzo Ito(Japan) |
| 2014-15 | Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014 | DST, New Delhi | Prof. C.N.R.Rao (India) Vijayamohanan K. Pillai(India) |
| | Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014 | MG University KSCSTE, Trivandrum | H. Münstedt (Germany) Graham J. Leggett(UK) |
| | First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014 | DRDO, CSIR New Delhi | S. Wang and C. M. Harvey(UK) |
| | Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014 | CSIR, New Delhi DST, New Delhi INSA, New Delhi KSCSTE, Trivandrum | A.V. Ratna Prasad*, K. Ramanaiah, K. Mohana Rao, K.M.V Ravi Teja(India) Abdeen Omer(UK) Abitha V K , K Rajkumar, Dr. P. Thavamani(India) |



| | | | |
|---------|--|--|--|
| 2013-14 | International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013 | DST New Delhi | Abraham J. Domb, Neeraj Kumar, Wahid Khan, Diana Surendra Kulkarni(India) |
| | Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013 | CSIR, New Delhi DRDO, New Delhi DST, New Delhi ICMR, New Delhi INSA, New Delhi | Animesh Jha, M S Duggal, Tom Vancoillie, Richard Hoogenboom(Belgium) |
| | First International Conference on Advanced Nanocomposite for Construction Materials (ICNC 2013): 12-14 March 2013 | AERB, Mumbai CSIR New Delhi DRDO, New Delhi DST, New Delhi ICMR, New Delhi | D.A. Koleva(Netherlands) Paulo Cachim, André Monteiro, Pedro Costa(Portugal) |
| 2012-13 | Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012 | CSIR, New Delhi DBT, New Delhi DRDO, New Delhi DST, New Delhi INSA, New Delhi | James Jacob (India) Anna Kucinska and Jerzy P. Koh (South Korea) Sandipan Chatterjee(India) |
| | Third International Multicomponent Polymer Conference (IMPC-2012) 23-25 March-2012, Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA | DST, New Delhi DRDO, New Delhi | Richard J. Spontak (USA) José Roberto Tozoni (Brazil) A.P. Uthirakumar(India) |
| | (ICNM-2012) International Conference on Nanomaterials: Synthesis, Characterization and Application-2012 Kottayam, Kerala, India, February- 1-3, 2012 | CSIR, New Delhi DRDO, New Delhi; DST, New Delhi INSA, New Delhi | Lukaszewicz (Poland) Santosh Kumar and Joonseok |
| | Second International Conference on | DST New Delhi MG University | Brown, M Routledge(UK) Samarendra Maji, Gertjan |



| | | | |
|---------|---|---|--|
| | Nanomaterials: Synthesis, Characterization and Applications-ICN 2012 to be held at Mahatma Gandhi University, Kottayam, Kerala, India during 12-15 January 2012 | | |
| | First Indo-US International Conference on Polymers for Packaging Applications (ICPPA 2012) | CSIR, New Delhi DRDO, New Delhi | Ickowich, Moran Haimzada(Israel) |
| 2011-12 | International conference on Nanoscience and nanotechnology-2011, Kottayam, Kerala, India November, 12-15, 2011 | ICMR, New Delhi KSCSTE, Trivandrum | Sandipan Chatterjee(India) |
| | (PPOMP 2011) First International Conference on Plasma Processing of Organic Materials and Polymers 25-27 November 2011, Kottayam, Kerala, India | CSIR, New Delhi DST, New Delhi KSCSTE, Trivandrum | François Rossi (Italy) Abhijit Majumdar, H.C. Thejaswini, Rainer Hippler (Germany) |
| | International conference of waste management-2011, Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA | DST, New Delhi | Mariusz Walkowiak |
| | ICNC-2011- International Conference on Composites and Nanocomposites-2011 Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA | CSIR, New Delhi DST, New Delhi KSCSTE, Trivandrum DRDO, New Delhi INSA, New Delhi | Shakeel Ahmed Ansari and Qayyum Husain(India) (Poland) |

31. Code of ethics for research followed by the departments

- (a) Plagiarism: It's mandatory for all Master and Ph.D students to strictly adhere to plagiarism before submitting any manuscript to a journal. Since last year the doctoral thesis of all researchers at Mahatma Gandhi University needs to submit a plagiarism report in the thesis which should be less than 20%. Nevertheless,

research scholars and master students are also given special training to use plagiarism software.

- (b) Animal ethical committee: An animal ethical committee has been constituted under University to probe in to the ethical issues involved while performing animal trials at out centre. The committee formulate rules and regulations for performing animal studies in conjunction with other national Animal ethical committees.
- (c) Software. All the software such as windows and other mathematical software such as Matlab, Chem Draw installed at our center are genuine.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-------------------------------|-------------------|
| | | Male | Female | Male | Female |
| M.Phil | 150 | 9 | 18 | 100 | 100 |
| MS | 176 | 12 | 12 | 100 | 100 |
| Ph.D | 95 | 5 | 22 | 40% (3- About to complete) | About to complete |

33. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| M.Phil | 80 | 20 | 0 | 0 |
| MS | 65 | 30 | 5 | |
| Ph.D | 67 | 33 | | |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, and other competitive examinations? Give details category-wise.:

Nil



35. Student progression

| Student progression | Percentage against enrolled |
|--|--------------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | 60% |
| Ph.D. to Post-Doctoral | 100 % (only two Ph.D awarded) |
| Employed <ul style="list-style-type: none"> Campus selection Other than campus recruitment | 40% |
| Entrepreneurs | |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | |
| from other universities within the State | 50% |
| Universities from other States | 50 % |
| from universities outside the country | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

| Name of the Faculty | Degree awarded | Details |
|---------------------|----------------|---|
| Prof. Sabu Thomas | D.Sc | University of South Brittany, LIMATB, France, 2014-2015 |

38. Present details of departmental infrastructural facilities with regard to:

| | |
|---|--|
| a) Library | 268 |
| b) Internet facilities for staff and students | available |
| c) Total number of class rooms | No permanent class room, sharing with SPAP and SCS |
| d) Class rooms with ICT facility | No permanent class room, sharing with SPAP and SCS |

| | |
|---------------------------|--|
| e) Students' laboratories | sharing with SPAP and SCS |
| f) Research laboratories | <ul style="list-style-type: none"> • Bio Lab • Synthesis Lab • Fabrication Lab • Characterization and testing lab • Advanced material Lab |

The centre is equipped with many sophisticated instruments which have procured through various projects funded by different agencies. The following instruments are available for performing high quality research in different areas of nanoscience and nanotechnology.

1. Atomic Force Microscope
2. Autoclave
3. Brabender
4. Carbon Dioxide Incubator
5. Compression Moulder
6. Cooling Centrifuge
7. Dielectric Measurement System
8. Differential Scanning Calorimeter
9. Dynamic Contact Angle Meter
10. Electrospinning Unit
11. High Resolution Transmission Electron Microscope
12. Laminar Air Flow System
13. Lyophilizer
14. ME Coupling Set up
15. Nd:YAG Laser
16. Plasma Ablation
17. Pulsed Laser Deposition
18. Z-Scan
19. Spin Coater
20. Ultrasonicators
21. UV-Visible-NIR Spectroscope
22. Vector Network Analyzer
23. X-ray Diffractometer



39. List of doctoral, post-doctoral students and Research Associates

| Name of Guide | Doctoral Fellow | Postdoctoral Fellows |
|---|---|--|
| Prof. Sabu Thomas | Jiji Abraham Blessy Joseph Mohammed Arif P | 1. Dr. Angulakshmi 2. Dr Obey Koshi 3. Dr Praveen G 4. Dr Jiya Jose 5. Dr Hanna J M 6. Dr Ajith kumar M P 7. Dr Aparna T 8. Dr. Jayalakshmy M. S. |
| Dr. Nandakumar Kalarikkal | Arunima R Lakshmi Priya S Shabina Kappadan Rajakumari R Dr.Sandhya Gopalakrishnan Dr. Indu Raj | |
| Dr. Geethamma V G (Adjunct faculty) | Ajitha A R Preetha Balakrishnan Anu Surendran Bicy K | |
| Dr. Sony George (Adjunct faculty) | Sahrika T Maya M.G | |
| Dr. MR Gopinathan Nair (Adjunct faculty) | Akhina | |
| Dr.M Padmanaban (Adjunct faculty) | Aswathi M K | |
| Dr. Laly A Pothan (Adjunct faculty) | Joshy KS | |
| Prof. Lovely Mathew (Adjunct faculty) | Jithin Joy | |
| Dr. Radhakrishnan (Adjunct faculty) | Snigtha S Deepa P Mohanan | |
| Dr. Jayachandran (Adjunct faculty) | Rakhi Mol KR | |

40. Number of post graduate students getting financial assistance from the university.

| Total no. of students | No. of students sanctioned fellowship | |
|-----------------------|---------------------------------------|---------------|
| | State Govt | MG university |
| 28 | 4 | 24 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, Whenever the Centre takes initiative to start a new program, at first feedback is collected from stakeholders (Alumni, Experts from academia and Industry, Research Institute). This is discussed thoroughly in the faculty council. The recommendations of faculty council are submitted for further action.

42. Does the department obtain feedback from?

| | |
|---|---|
| a) Faculty on curriculum as well as Teaching-Learning-Evaluation? If yes, how does the department utilize the feedback? | Yes, the department collects feedback from Faculty and discussions are conducted in the faculty council Meeting. The deliberations of faculty council meeting are used to improve the Teaching-Learning – Evaluation process. |
| b) Students on staff, curriculum and Teaching-Learning-Evaluation and how does the department utilize the feedback? | Yes, the department collects feedback from students and discussions are conducted in the faculty council Meeting. If the students have any problems faculty members always take steps to solve the problems in the teaching learning – evaluation process |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni meetings are conducted annually and the feedback is obtained. The alumni members are our ambassadors. |

43. List the distinguished alumni of the department (maximum 10)

| Sl. No | Name | Current Position |
|--------|------------------------|--|
| | Dr. Robin Augustine | National Postdoctoral Fellow, NIT Calicut |
| | Aruni Shaji | Doctoral Fellow, IPF Dresden, Germany |
| | Chithira Kartha | Research Associate Freiburg, Germany |
| | Shibin Thomas | Doctoral Fellow, University Paris 6, France |
| | Anu AS | Analytical Engineer, IIUCNN, Mahatma Gandhi University, Kottayam |
| | Anu K John | Assistant Professor, Bharata Mata College, Trikkakara, Kerala |
| | Dr. Muhammed Ashik U P | Post doc. Japan |
| | Ansuja Mathew | Ph.D, South Korea |

44. Details of student enrichment programmes (special lectures / workshops /seminar) involving external experts.

International and Inter University Centre for Nanoscience and Nanotechnology has organised many national and international conferences, seminars and invited lectures for



the students. The Centre also organises two seminars a week which help the scholars to improve their presentation skills and also give them exposure to the latest findings in the field of Nanoscience and Nanotechnology.

- Seminars twice a week for the students
- Erudite lectures
- Workshops
- Showcasing of research activities.
- Sensitization programmes

International and National invited talk at IIUCNN (2011-2016)

| Date | Name | Title of the talk |
|-------------|--|---|
| 31.10.2016 | Dr. Habeeb Muhammed MA, Department of Physics and Center for NanoScience (CeNS), Ludwig-Maximilians-Universität München, Munich (Germany) | "Hierarchical Gold-Copper Chalcogenide Core Shell Nanoparticle Clusters with Selectable NIR Metal/Semiconductor Plasmon Resonances". |
| 20.10.2016 | Dr. Shiju Raveendran, University of Amsterdam, Netherlands. | "Heterogeneous catalysis and its Applications". |
| 03.10.206 | Prof. Dr. Clement Sanchez (University of Pierre and Maria Currie, France) | Applications of Hydrid materials |
| 01.10.2016 | Dr. Vivek K Srivastava and Dr. Ganesh C. Basak ,Reliance industries, Vadodara, Gujarat | Recent trends in rubber technology |
| 25.07.2016 | Prof. Dr. Wim Dehaen, University of Leuven, Belgium. | "Hyper branched Polymers based on Isatin and Electron Rich Arenes: Synthesis and Applications". |
| 16.07.2016 | Camille Thevenot, University of de Lorraine in Nancy, France | A piezoelectric polymer material P(VDF-TrFE): elaboration, characterization and applications |
| 14.07.2016 | Dr.Kajal Ghosal, Assistant Professor, Dr. B C Roy College of Pharmacy and AHS, Durgapur, India (currently affiliated to CEITEC,MU, Czech Republic) | Electrospinning: Can polymeric films be plasticized without Plasticizers". |
| 08.07.2016 | Prof. Dr. Dinesh Kumar Kotnees, Head of the Department of Materials Science and Engineering, Indian Institute of Technology (IIT) Patna | "Preferentially fixing nanoclays in the phases of incompatible polymer blend using thermodynamic approach and its effect on physico mechanical properties " |
| 18.06.2016 | Dr Nishar Hameed, Swinburne University of Technology, Australia | " Carbon Fibre – the Material of the Future". |

| | | |
|------------|--|--|
| 18.06.2016 | Dr. Sami Hage-Ali , Associate professor with the micro-nanosystems group (MNS) at Institute Jean Lamour, France | "Applications of silicone based elastomers to flexible radio frequency devices and sensors". |
| 10.06.2016 | Dr. Rosana Maria Assuncao Birth, Institute of the Federal University of Uberlandia, Brazil | Physico chemical properties of starch NR-blends |
| 08.06.2016 | Dr. Daniel Pasquini, Institute of the Federal University of Uberlandia, Brazil | Nano crystals from starch and cellulose |
| 31.05.2016 | Prof. Dr. Zakiah Ahmad (Director, Institute for Infrastructure Engineering and Sustainable Management, Mara) from Malaysia | New frontiers of material science in civil engineering |
| 01.04.2016 | Prof. Dr. Joseph Arul of the University of Laval, Canada | Preservation fresh fruits and vegetables |
| 28.03.2016 | Prof. Nathalie Gontard (Professor, INRA Research Director, Food & Packaging Scientist) from France | Next generation of packaging to increase full system sustainability. |
| 19.02.2016 | Prof. Florian Mormann, MD, Ph.D, Department of Epileptology, University of Bonn, Germany | "The Building Blocks of Memory- The Marilyn Monroe Neuron" |
| 08.02.2016 | Prof. Dr. Joanna Ewa Izdebska Warsaw University of Technology, Poland | Printing On Polymers |
| 20.01.2016 | Prof Francis Lewu, Head of Department, Department of Agriculture, Faculty of Applied Sciences, Cape Peninsula University of Technology, Western Cape, South Africa | Crop and medicinal species conservation, production and utilization |
| 12.01.2016 | Dr. Aji.P.Mathew, Professor, Division of Manufacturing and Design of Wood and Bionanocomposites, Luleå University of Technology, SE 97187, Luleå, Sweden, | Nanocellulose Research |
| 08.12.2015 | Dr Apala Majumdar, Associate Professor (Reader) and EPSRC Career Acceleration Fellow, Department of Mathematical Sciences, University of Bath, Claverton Down Bath BA2 7AY, United Kingdom | Problems in nonlinear elasticity, colloidal systems and nanoparticles systems. |
| 01.12.2015 | Dr. K.I. Suresh (Principal Scientist, Polymers & Functional Materials Division, CSIR- Indian Institute of Chemical Technology, Hyderabad) on the topic | "The Emulsion Polymerization :The Green Approach to Functional Polymers" |



| | | |
|-------------|---|--|
| 12.10.2015 | Prof. Georgi, from Russia | |
| 14.09.2015 | Dr. Venkata Gopal Reddy Chada (Chief Manager- Technology), Asian Paints | Paints and Colours |
| 24.08.2015 | Dr. Gregor Filipič from Slovenia | Plasma for controllable surface modifications and nanosynthesis |
| 09 .07.2015 | Dr. Vinayan B P, Helmholtz Institute Ulm, Karlsruhe Institute of Technology, Germany | Development of suitable electrolyte for metal sulfur battery, fabrication of high capacity and long cyclic stability sulfur electrode materials and different electrochemical phenomenon within this system. |
| 22.06.2015 | Dr. Jacob John | Impact of globalization on national and international affairs. |
| 30.04.2015 | Prof .Vijaya Mohanan Pillai Director, CSIR-CECRI , Central Electrochemical Research Institute, Karaikudi-630003, Tamil Nadu, India | Nanomaterials for Energy Applications |
| 29.04.2015 | Dr. Praveen G. L (University of Kerala) on the topic at 3.00 pm at SCS seminar hall | "Nanocomposites for Biomedical Applications" |
| 21.04.2015 | Volker Ribitsch (University of Graz. Austria) | Modification of Nanocellulose |
| 06.03.2015 | Mohamed Mehdi CHEHIMI Research Director at French CNRS, Leader of the Surface & Interface research team, Université Paris, France | Surface modification clay |
| 30.01.2015 | Dr. Maciej Jaroszewski (Head of High Voltage Laboratory Wroclaw University of Technology, Poland) | Impedance Spectroscopy |
| 26.01.2015 | Prof. Suryasarathi Bose, (IISC, Bangalore) | Advanced Polymer Blends |
| 20.01.2015 | Prof. Benjamin S Hsiao (Department of Chemistry, Stony Brook University, New York) | "Breakthrough Water Purification Technologies based on Nanofibrous Membranes" |
| 22.12.2014 | Prof. Taofik Shittu , Nigeria | Agriculture |
| 11.12.2014 | "Prof. (emerit.) Dr. Werner Mormann, Universität Siegen" | Ionic liquids and cellulose – a perfect green combination |
| 19.11.2014 | AASHISH ROY (Postdoctoral Fellow, Department of Materials Engineering Indian Institute of Science) | Conducting polymers for Sensor applications |
| 1.10.2014 | Prof. Renata Dantas, University of Campinas, Sao Paulo, Brazil | "Ozonation for water and waste water purification" |

| | | |
|------------|--|--|
| 17.09.2014 | Prof. P.M.G.Nambissan, Saha Institute of Nuclear Physics Kolkata | "The Indian legacy of the evolution of science" |
| 22.08.2014 | Dr.Rajesh A. Shenoi, University of British Columbia, Vancouver BC, Canada | "Designing multifunctional dendritic polymers for macromolecular therapeutics" |
| 13.08.2014 | Dr. Suresh.S. Pillai of Environmental Nanotechnology Division, Institute of Technology, Sligo, Ireland | "Nano materials for Environmental Application" |
| 31.07.2014 | Dr.T.Sidhu, Dean, Professor, Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Canada | "Research Opportunities at University of Ontario Institute of Technology, Canada" |
| 24.07.2014 | DR. Ali Kareem al-lami, Misan University, Iraq | "Preparation and Mesomorphic characterization of supramolecular hydrogen bonding dimer liquid crystals" |
| 22.07.2014 | Dr. Salim Albukhaty | "Transfection of NSCs Neural Stem Cells by BDNF gene using Nano Carrier System" |
| 18.07.2014 | Dr.Bharath Rajaram –Application Scientist –TA USA | Recent Trend in Rheological Characterization using Rheometer & DMA |
| 15.07.2014 | Dr. Burkhard Fechner, Coherent GmbH on | "Recent trends in Excimer lasers in PLD and Nano applications" |
| 20.06.2014 | Dr. Chaitanya Lekshmi Indira, Associate Professor, Department of Chemistry, CMR Institute of Technology, Bangalore, | "Nanoscale Heterostructures: Material Design & Functional Property Understanding for Nanoelectronic Applications" |
| 07.04.2014 | Dr. Maya Padivattathu | Multiscale Material Modelling-Approach and Application |
| 27.03.2014 | Dr. Abjith Saha , UGC- DAE Kolkata Centre | Material Sciences |
| 25.03.2014 | Prof. Tamio Endo Mie University, Japan | "Fabrication of La(Ba,Sr)MnO ₃ /ZnO Heterostructures and Electrical Junction/Switching Characteristics" |
| 14.03.2014 | Dr. A. V. Ravikumar, Indian Institute of Plasma Research | "Applications of Accelerators" |
| 28.02.2014 | Dr. Chan Chin Han, University Technology MARA, Malaysia | "Natural Rubber based polymer blends: Thermal and Mechanical properties; and morphologies." |
| 25.02.2014 | Dr. Tamilselvan, Institute of Chemistry, Division of Surface and Interface Science, University of Graz, Austria | "Advanced polysaccharides Composites" |



| | | |
|------------|---|---|
| 22.02.2014 | Dr. Arup Chandra, Apollo tyres | Tyre Engineering |
| 28.01.2014 | Dr. Suresh. G. Adwani, Associate Director, Center for Composite Materials, University of Delaware, USA, | Multi-scale Modeling and Simulation of Composite Manufacturing Processes” |
| 21.01.2014 | G S Murthy (GM, Forevision Instruments, Hyderabad) | Talk on AFM |
| 27.12.2013 | Mr. Shyam Panamoottil, Centre for Advanced Composite Materials (CACM), Auckland, New Zealand | “Multiscale modelling to predict the failure behaviour of flax-fibre composites from fibre, matrix and interface properties” |
| 01.08.2013 | Dr.Nguyen Van Son | "Dispersion of nanoparticles in solution" |
| 25.06.2013 | A K Sinh, Anton Paar, India | "Rheology and its applications" |
| 22.06.2013 | Prof. (Dr) C M. Narayan, Profssor of Chemical Engineering, National Institute of Technology, Durgapur, India | "Biodiesel Synthesis from Micro- Algae oil" |
| 20.06.2013 | Dr. Shams Khwaja, Adjunct Professor of Law, Constitutional Law Lab, USA | "Discovering a Road Map for Nanotechnology law and Regulation for India" |
| 17.06.2013 | Dr. Ramesh | "NMR of Carbon Skeleton" |
| 19.06.2013 | Dr.Achutha Prabhu | "Irreversible aggregation of patchy colloidal particles: A computer simulation study" |
| 18.05.2013 | Dr. Rajan Babu (The Ohio State University U S A) | “Asymmetric Catalyzed Reactions of Alkenes and Small Ring Compounds” |
| 06.07.2012 | Dr. Aji P Mathew, Division of wood and Bionanocomposites, Lulea university, Sweden | Bionanocomposites |

45. List the teaching methods adopted by the faculty for different programmes.

Flipped classroom lectures, online class room, Lecture, discussion, demonstration, simulation, industrial visit and seminars.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The department conducts exams consisting of two internal and an external every semester which is carefully evaluated by the teachers. Moreover surprise quizzes and viva voce based on their laboratory experiments are also conducted.

47. Highlight the participation of students and faculty in extension activities.

- Prof Sabu Thomas has delivered a series of lectures on green farming catering to the need of nanotechnology for enhancing crop productivity. The lectures were organised specifically for the farmers in Kaduthuruthi Village , Kottayam district.
- Another lecture series on plastic waste recycling was organised for creating awareness of plastic waste disposal and reuse of plastic materials for other day to day applications, Kaduthuruthi Village , Kottayam district
- Prof Thomas has given special lectures to school students at Kendriya Vidyalaya Kottayam so as to make the students understand about the basics of nanotechnology.
- Prof Nandakumar has also proactively delivered lectures on Nanotechnology and Nanoscience for various schools in Kottayam district and Thrissure District
- Visited old age home and orphanage at Kottayam

48. Give details of “beyond syllabus scholarly activities” of the department.

1. Conducted a competition for college students on paper presentation.
2. Professor Sabu Thomas, Dr. Nandakumar Kalarikkal, faculties of International and Inter University Centre for Nanoscience and Nanotechnology had conducted many lectures in colleges and schools in India as a part of promoting Nanoscience and Nanotechnology.
3. Conducted student outreach programme at KE School Mannanam for promoting research in Science.
4. Centre regularly conducting workshops, National and International Conferences
5. Erudite lectures and talks by visitors are also beyond syllabus scholarly activities of centre
6. We are offering MOOC programs for the college students

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.: No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied: The centre is conducting high level advance research in the following areas

- Polymer nanocomposites for water purification
- Polymer blends and composites
- Polymeric nanocomposites for electronic application such as sensing, EMI shielding, etc
- Elastomeric nanocomposites for neutron shielding application
- Polymeric nanocomposites for packaging application
- Nanostructured polymer blends and composites
- Biopolymeric material for wound healing application



- Polymer Quantum Dot for cell imaging application
- Synthesis and characterization of polysaccharides and various technological application
- Photovoltaic solar cell

All these studies lead to large number of international refereed journal articles and patents. Some of our research lead to the development of devices. The high impact publication, patent and products are the best examples for our contribution towards knowledge production both basic and applied. The Centre also collaborate with MRF Tyre, Apollo Tyre, Surface Treat, Czech Republic and General Cables, USA to commercialise our research findings

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

- Multidisciplinary subjects and faculty.
- Students from multidisciplinary subjects.
- Sophisticated instrument facility
- Strong teacher pupil relationships and Community extension activities.
- High impact publications and International collaborations

Weakness:

- Deficiency in Permanent Faculty. Right now Centre is running by faculty from physics, chemistry and post.doc. Request has been made to the university and Govt. of Kerala for the permanent faculty.
- Lack of enough space. Right now centre is running at the premises of School of Pure and Applied Physics (SPAP) and School of Chemical Sciences (SCS). A permanent building (Convergence Academia Complex) is under construction and is expected to complete within one year

Opportunities:

- There are enormous opportunities for the students to specialize in the areas of Nanoscience and Nanotechnology (Nano medicine, Nanocomposites, Nanoscience for Environment, Nano-catalysts, Nano-scaffold etc.)
- Students of the Centre have numerous opportunities for doing Ph.D and Post Doc. studies abroad
- Excellent opportunities for international networking and collaborations

Challenges

- Dual Ph.D and dual master degree programme with universities abroad.
- International ranking of the centre.
- Full time international students for master and Ph.D programme.
- Elevation of the Centre into a full-fledged school having five different division

- Division on Nanomaterials and Hybrid Composites
- Division on Nano for Energy
- Division on Nano Food Security
- Division on Nano for Health and Medicine
- Division on Nano for Environment
- Division on Ethical and Toxicity aspects of Nanoscience and Nanotechnology

52. Future plans of the department:

- Fabrication of large number of nano devices in collaboration with industries.
- Start-up of Incubation centre.
- Large scale consultancy activities for nanoscience and nanotechnology.



ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT (ACESSD)

| | | | |
|-----|--|---|--|
| 1. | Name of the Centre | : | Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) |
| 2. | Year of establishment | : | 2009 |
| 3. | Is the Department part of a School/Faculty of the university? | : | Yes, Faculty of Environmental and Atmospheric Sciences & Faculty of Science |
| 4. | Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) | : | Ph. D Programme |
| 5. | Interdisciplinary programmes and departments involved | : | Interdisciplinary Scientific Research including Chemistry, Environmental Science, Forestry, Human Ecology, Social Sciences and Life Sciences. |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | N.A |
| 9. | Participation of the department in the courses offered by other departments: | : | 1. Teaching MSc, MPhil and Ph.D programmes in School of Environmental Sciences 2. Teaching MPhil Human Ecology & Natural History in School of Social Sciences |
| 10. | Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | The Centre is functioning with an Honorary Director and two Research Coordinators. |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|--------------------|---------------|--|---|----------------------------|--|
| Prof. A. P. Thomas | Ph.D | Hon. Director | Environmental Science, Life Sciences | 45 | 7 Ph.D awarded, 9 Ph.D students working and 7 M.Phil completed |
| Dr. K.Usha | Ph.D | Research Coordinator (Science) | Environmental Chemistry, Analytical Chemistry | 18 | 2 Ph.D awarded and 8 students working, 3 M.Phil completed |
| Dr. G. Christopher | Ph. D | Research Coordinator (social Sciences) | Human Ecology, Ethnobiology | 18 | 2 M.Phil completed 5 Ph.D students working |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| SL. No | Visiting Fellows, adjunct faculty, emeritus professors | Specialization |
|--------|---|---|
| 1. | Prof. Yoram Oran, Department of Desalination and Water Treatment, Zuckerberg Institute for Water Research, Blaustein Institutes for Desert research, Ben-Gurion University of the Negev, Israel | Membrane filtration, water treatment, ion exchange, electrochemical treatment |
| 2. | Prof. Mark Weisner, Centre for Environmental Implication of Nanotechnology, Duke University, Durham | Membranes, fuel cell, nanotechnology, nanoparticles in water |
| 3. | Prof. Len Reitsman, Plymouth State University, New Hampshire, USA | Conservation Biology, Avian Ecology |
| 4. | Dr. Mark Green, Plymouth State University, New Hampshire, USA | Watershed management and Forestry |
| 5. | Dr. Sally Nhomy, Honalulu, Hawaii, USA | Tribal Education, Child welfare |
| 6. | Prof. Vladimir Teplyakov, Russian Academy of Sciences, Russia | Membranes, energy, gas separation |



| | | |
|-----|--|--|
| 7. | Dr. Whitney, Plymouth State University, USA | Medieval History |
| 8. | M.R. Hoffman, California Institute of Technology, USA | Advanced oxidation process, sanitation, free radical chemistry |
| 9. | G.M. Anilkumar, Noritake Company Ltd, Japan | Membranes, energy, fuel cell |
| 10. | Dr. J. M. Julka, Former Principal Scientist, Zoological Survey of India | Earthworm Taxonomy and Biodiversity |
| 11. | Dr. Sulthan Ahmed Ismail, Ecoscience Research Foundation, Chennai | Environmental Conservation, Vermi culture and Earthworms |
| 12. | Dr. K.V. Lazar, Department of Environmental Science, Central University of Kerala | Biotechnology, Genomics |
| 13. | Dr. Anand Krishnan Plapally, Dept. of Mechanical Engineering, IIT, Jodhpur. | Water treatment, Indigenous technology |
| 14. | Dr. A. A. Mohamed Hatha, Cochin University of Science and Technology, Cochin | Microbiology |
| 15. | Dr. Anitha Pius, Dept. of Chemistry, Gandhi Gram Rural Institute, Deemed University, Tamil Nadu. | Membranes, water, sanitation |
| 16. | Dr. Pushpito Ghosh, Director CSMCRI, Gujarat | Membrane processes, RO and NF, Water treatment, Solar energy |
| 17. | Dr E. J. James, Director, Water Institute, Karunya University, Coimbatore, Tamil Nadu | Water, Watershed management, Rivers and Wetlands |
| 18. | Dr. Sabu Joseph, University of Kerala, Trivandrum | Environmental Science |
| 19. | Babu Alappat, IIT Delhi, India | Waste management |
| 20. | Dr. Girish Kumar, Cochin university of Science and Technology, Cochin | Sensors, photochemistry |
| 21. | Dr. A.P. Pradeepkumar, University of Kerala, Trivandrum | Geoscience, Disaster management |
| 22. | Dr. C.T. Aravindakumar, School of Environmental Sciences, M.G. University | Advanced oxidation process, mass spectrometry, water chemistry and air |
| 23. | Dr. E.V. Ramasamy, School of Environmental Sciences, M.G. University | Environmental Biotechnology, Waste Management |
| 24. | Dr. Mahesh Mohan, School of Environmental Sciences, M.G. University | Environmental Science, Pollution studies |
| 25. | Dr. Syllas V.P., School of Environmental Sciences, M.G. University | Environmental Science, Biofuels, Wetland studies |

- 13. Percentage of classes taken by temporary faculty – programme-wise information:**
Not Applicable

14. Programme-wise Student Teacher Ratio:

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| Ph.D | 7:1 |

- 15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual):**

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 1 | 1 |
| Administrative Staff | 1 | 1 |

16. Research thrust areas as recognized by major funding agencies

- Climate Change Studies
- Green Chemistry and Technology
- Pollution Studies and Management
- Earthworm Studies
- Human Ecology and Conservation
- Biodiversity and Natural History
- Sustainable Development

- 17. Number of faculty with ongoing projects from a) national b) international funding Agencies and c) Total grants received. Give the names of the funding agencies, Project title and grants received project-wise:**

a) National

| Sl. No. | Funding Agencies | Project title | Total Fund in Lakhs(₹) |
|---------|-------------------------|--|------------------------|
| 1. | KSCSTE, Govt. of Kerala | Polyelectrolyte multilayer membrane for the treatment of paper mill effluent | 26.00 |
| 2. | DST | Nano skinned coir matrix for the removal of biological contaminants from water | 31.09 |

b) International: Nil

c) Total grants received: ₹ 57.09 Lakhs



18. Inter-institutional collaborative projects and associated grants received

- a. National collaboration: Nil
- b. International collaboration :

| No. | Collaboration | Project title | Total Fund in Lakhs |
|-----|---|---|------------------------|
| 1. | Obama-Singh 21 st Century Knowledge Initiative programme - between US Universities (Duke University & Plymouth state University) and Mahatma Gandhi University | An interdisciplinary and community oriented innovative approach towards sustainable development | 42.00 |
| 2. | Network project between Department of Energy Conversion and Storage, Technical University of Denmark (DTU) and Mahatma Gandhi University (MGU) (for five years) | Nanofiber structures for efficient enzyme immobilization in membrane applications | 4.26 (For one year) |

Total grants received: ₹ 46.26 Lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

Nil

20. Research facility / centre with

- State recognition: Yes
- National recognition: Yes
- International recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate Bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|---|-------|
| 1. | Refereed Journal Publications | 61 |
| 2. | Monographs | 0 |
| 3. | Conference Proceedings (international/national) | 196 |
| 4. | Chapters in Books | 3 |
| 5. | Edited Books | 13 |
| 6. | Books authored with ISBN | 8 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 281 |

Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) Nil

Citation Index – range / average : 300-650

Impact Factor – range / average : 1-7

h-index : 6-14

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated:

1. Chemical Analysis
2. Biodiversity Survey
3. Training programme in analytical Instrumentation

Income generated

| Sl. No. | Year | Income in Lakhs (₹) |
|---------|-------------|---------------------|
| 1. | 2011 - 2015 | ₹ 1.20 |

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory/ Research area |
|---------|---------------------|--|
| 1. | Prof. A. P. Thomas | 1. Natural History Museum, London (2012) 2. Pondicherry Central University (2011) 3. Bharathiyar University, Coimbatore (2012) |
| 2. | Dr. K. Usha | 1. National centre for Antarctic and Ocean Research, Goa, 2016 2. Indian Institute of Technology, Delhi, 2013 3. Thaper University, Punjab, 2013 4. Karunya University, Tamilnadu, 2012 5. University of Paris (S) / AOP, 2012 6. University of Rouen, Membrane Technology, France, 2012 7. Thonburi, Thailand, .2012 / Water purification 8. University of Copenhagen 2015 / Mass spectrometry |
| 3. | Dr. G. Christopher | 1. Natural History Museum, University of California at Santa Barbara (2015) 2. Hubbard Brook Experimental Forest Outdoor Laboratory, New Hampshire (2015) 3. Department of Engineering and Innovation, Brown University, Rhode Island (2015) 4. Centre for Cellular and Molecular Biology, Hyderabad (2025) 5. National Institute of Animal Welfare (2016) |



26. Faculty serving in

a. National committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Prof. A. P. Thomas | Member, Expert Committee, Association of Indian Universities (2011) |
| | | Chairman, Indian Leadership Team, 'Rainwater for Humanity' (International Collaborative Programme) |
| 2 | Dr. K. Usha | Member: Indian membrane Society (Life Member) |
| 3 | Dr. G. Christopher | Govt. of India Nominee in the Committee for the Purpose of Control and Supervision of Experiment on Animals (CPCSEA) |

b. International committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1 | Prof. A. P. Thomas | Member, Bat Conservation International |
| 2 | Dr. K. Usha | Nil |
| 3 | Dr. G. Christopher | Nil |

c. Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|---------------------|---|
| 1 | Prof. A. P. Thomas | <ul style="list-style-type: none"> • Member, Editorial Board, <i>Journal of the Zoological Society of Kerala</i> • Managing Editor, 'Bulbul' (an environmental bimonthly) • Member, Editorial Board, 'Tree India' (An Environment Journal) • Editor of 4 books published by ACESSD, M.G. University. • General Editor of 13 books (Eco book series) published by the Tropical Institute of Ecological Sciences (TIES). |
| 2. | Dr. K. Usha | Reviewer in: <ul style="list-style-type: none"> • Journal of Membrane Science • Colloids & Surfaces A., • J. Biomaterial Science • Langmuir • Biosensor Bioelectronics |
| 3. | Dr. G. Christopher | Nil |

d. Any other

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1 | Prof. A. P. Thomas | <ul style="list-style-type: none"> • Expert member, District Environmental Impact Assessment Authority • Member, Kerala State Pollution Control Board • Member, Planning Board, Pondicherry Central University • Member, Academic council, Pondicherry Central University • Member, Environment Commission of KCC • Member, Director Board, Leptospirosis Institute of Kerala • Patron and Member of Director Board, Tropical Institute of Ecological Sciences • Chief, Employment Information and Guidance Bureau, M. G. University • Member, Expert Committee, Association of Indian Universities • Member, Academic Council, CMS College Kottayam (Autonomous) • Member, PG Board of Studies, Calicut, Kerala, Cochin, Bharathiyar Universities • Member, Committee for revamping the research sector in universities of Kerala. |
| 2 | Dr. K. Usha | <ul style="list-style-type: none"> • Member, Technical Committee, Suchithwa Mission, Government of Kerala |
| 3 | Dr. G. Christopher | <ul style="list-style-type: none"> • Member, International Ethnobiological Society • Member, Board of studies for Forestry, Kannur University • Member, IBCN – Indian Bird Conservation Network • Expert Member, Madras Naturalists Society • Life Member, Malabar Natural History Society |

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs)

Nil



28. Student projects:

| | |
|--|----------------|
| <ul style="list-style-type: none"> percentage of students who have done in-house projects including interdepartmental projects: | Not applicable |
| <ul style="list-style-type: none"> percentage of students doing projects in collaboration with other universities / industry / institute: | Not applicable |

A number of students from colleges within and outside Kerala and from different departments in the university campus have done short term projects using the advanced facilities in ACESSD. The list is given below:

| SL. No. | Name | Course | Institution | Title of the Project | Year |
|---------|--------------------|--------|--|---|------|
| 1. | Renuka R. | M.Phil | School of environmental Sciences, M. G. University | The role of earthworms in soil carbon dynamics under a microcosm study | 2012 |
| 2. | Anand Raj | M.Phil | IITMK Thiruvanthapuram | Vegetation carbon pool assessment of tree outside forest in Kottayam district, Kerala, India. | 2011 |
| 3. | Ashalakshmi C N | M.Phil | School of environmental Sciences, M. G. University | A study on the stress effect of organophosphorus pesticide, ethion on earthworm <i>Perionix excavatus</i> : a molecular approach | 2014 |
| 4. | Sethulakshmi Bhai | M.Phil | School of environmental Sciences, M. G. University | Studies on the antibacterial and antifungal potentialities of local earthworms | 2013 |
| 5. | Soumya Lakshmi P.S | M.Sc. | School of environmental Sciences, M. G. University | A study on the role of two earthworm species, <i>Perionix ceylanensis</i> and <i>Pontoscolex corethrurus</i> on the decomposition of rubber leaf litter | 2014 |
| 6. | Athira S. Kumar | M.Sc. | School of environmental Sciences, M. G. University | A study on the role of two earthworm species, <i>P. corethrurus</i> and <i>M. konkanensis</i> on soil fertility | 2014 |
| 7. | Feba Merin | M.Sc. | School of | Soil carbon dynamics of | 2013 |



| | | | | | |
|-----|---|-------|--|--|------|
| | Chacko | | environmental Sciences, M. G. University | multiple landuse categories | |
| 8. | Jeeva M. Philip, Pravya Jayaraj C.V. and Thafna K.K | M.Sc. | School of environmental Sciences, M. G. University | Household Consumption Pattern of Selected Resources in Ernakulam and Kannur districts – A Comparative Assessment | 2012 |
| 9. | Sruthy S, Thafna K.K, Pravya Jayaraj C.V. | M.Sc. | School of environmental Sciences, M. G. University | Household consumption of water: a study conducted in selected areas in Kerala | 2012 |
| 10. | Mary Jency | M.Sc. | School of environmental Sciences, M. G. University | Household Consumption Pattern of Selected Resources in Ernakulam and Kottayam districts - A Comparative Assessment | 2013 |
| 11. | Charusree C.S, Ambily V | M.Sc. | School of environmental Sciences, M. G. University | Status of plantation crops in India and Kerala: Production and consumption | 2012 |
| 12. | Febby Payva, Raisa Kabeer | M.Sc. | School of environmental Sciences, M. G. University | Food consumption pattern in India and Kerala – A comparative assessment | 2012 |
| 13. | Renuka R, Neethu Joy | M.Sc. | School of environmental Sciences, M. G. University | Electrical energy consumption in India and in Kerala - A sustainability assessment | 2012 |
| 14. | John Richard Thomas, Prveen | M.Sc. | School of environmental Sciences, M. G. University | Rural household consumption pattern in Pathanamthitta and Alapuzha districts – A Comparative Assessment | 2012 |
| 15. | Mary Lidiya Mathew | M.Sc. | School of environmental Sciences, M. G. University | An Investigation on the Removal of Reactive Dyes using Polysaccharide Based Membranes | 2013 |
| 16. | Athullya M. K. | M.Sc. | School of environmental Sciences, M. G. University | Investigation of food additives in soft drinks | 2014 |
| 17. | Bijon | M.Sc | School of environmental Sciences, M. G. University | Analysis of the Possible Presence of Endocrine Disrupting Chemicals from Packaged Beverages | 2014 |



| | | | | | |
|-----|-------------------|--------------------------|--|--|------|
| 18. | Anjali Venukumar | M.Sc | School of environmental Sciences, M. G. University | An Assessment on Feasibility of Toilet Linked Biogas System as a Zero Septage Approach | 2014 |
| 19. | Group Project | B.Tech | SCMS School of Engineering and Technology, Karukutty | Development of composite membranes based on different polyelectrolytes, their post treatment morphological changes | 2014 |
| 20. | Karthika Bose | M.Tech Civil Engineering | SCMS School of Engineering and Technology, Karukutty | Development of polyelectrolyte membrane as proton exchange membrane for fuel cell application | 2015 |
| 21. | Irene Anna | M.Tech Civil Engineering | SCMS School of Engineering and Technology, Karukutty | Enhancement of membrane property for the removal of reactive dyes from textile effluent | 2015 |
| 22. | Nigitha Jacob | M.Phil | St. Joseph's College, Trichy | Development of heterogeneous multilayers on PVDF membranes | 2015 |
| 23. | Revathi | M.Sc | Baselius College, Kottayam | Multi spectroscopic study of human serum albumin with tuberculosis drug para amino salicylic acid and its n-acetyl metabolite | 2015 |
| 24. | Sreelakshmi | M.Sc | Baselius College, Kottayam | Wettability of PEI/PSS multilayer coated hydrophobic PVDF membranes | 2015 |
| 25. | Ashalakshmi C. N. | M.Phil. | School of environmental Sciences, M. G. University | A study on the toxic effects of ethion, an organophosphorous pesticide on earthworm Perionyx ceylanensis Michaelson 1903: An analytical approach | 2015 |
| 26. | Anjali Venugopal | M.Phil. | School of environmental Sciences, M. G. University | Assessment on Viral Outbreaks, Dengue and Chikungunya in Kottayam District for the Past Four Years and their Environmental Causes | 2016 |
| 27. | Athullya M. K. | M.Phil. | School of environmental Sciences, M. G. | Grey Water Production, Occurance of Micropollutants and its | 2016 |

| | | | University | Removal using Multilayer Membranes | |
|-----|-----------------|------|-------------------------------------|--|------|
| 28. | Ann Mary Antony | M.Sc | St. Stephen's College, Pathanapuram | Preliminary studies on calcium mineralization using nanostructured multilayer's | 2016 |
| 29. | Akshaya Jose | M.Sc | St. Stephen's College, Pathanapuram | Surface coated microfiltration membrane in the removal of modern emerging contaminants from water | 2016 |
| 30. | Aneesh Danam | M.Sc | St. Stephen's College, Pathanapuram | UPLC-Q-ToF/MS Analysis of Sediment Samples of a Selected Backwater Canal of Kottayam District for the Possible Presence of Weedicides and its Metabolites. | 2016 |
| 31. | Ajay S | M.Sc | St. Stephen's College, Pathanapuram | Sonochemical degradation of Beta Blockers, propranolol; A model Compound in Aqueous Medium | 2016 |

29. Awards / recognitions received at the national and international level by

- Faculty

Nil

- Doctoral / post doctoral fellows:

| Doctoral Fellow | Details |
|-----------------|--|
| Jisha C | Best paper in the International conference on Nano -biomaterials, Kottayam, 2014. |
| G. Akhil | Young scientist award, in the 26 th Kerala Science congress. 2014 |
| | Best paper award in the 5 th Asian Conference on Colloid and Interface Science, University of North Bengal, Darjeeling. 2013 |
| | Best paper award in the International Conference on Water: from pollution to purification, Kottayam, Kerala, Jan. 23-26, 2015. |
| Sijumon V.A | Best poster award in the National symposium on radiation and photochemistry, NSRP-2013, Shillong, March 20-22, 2013 |
| | Best poster award in the National seminar on sustainable development: recent trends in meeting the challenges, NSSD-2012, Kottayam, 2012 |
| | Best poster award in the National seminar on green chemistry-The ultimate tool for pollution control, Kottayam, 2012. |

30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|-------------|---|--|--|
| 1. | International Conference on Advanced Oxidation Process in collaboration with Centre for Environment Education and Technology (CEET), (AOP-2010)- September 18-21, 2010, Kottayam | MoEF, BRNS, CSIR | <ul style="list-style-type: none"> • M.R. Hoffmann, California Institute of Technology, USA • Ramaiah D, NIIST, Kerala • Belloni J, University Paris South, France |
| 2. | National Conference on Native Livestock breeds and their sustainable uses in collaboration with Vechoor Conservation Trust and National Biodiversity Authority, September 27- 28, 2010, Kottayam) | Vechur Conservation Trust, Kerala | <ul style="list-style-type: none"> • Dr. Sosamma Iype, Kerala Agricultural University • Dr. Azim Bhattobyal, Joint Commissioner, Department of Animal Husbandry, Dairying & Fisheries • Pramod G. Krishnan, IFS, UNDP |
| 3. | International conference on membranes: Environmental and biological applications-(ICM-2011) September 16-19, 2011, Kottayam | CSIR, DST, BRNS | <ul style="list-style-type: none"> • Ashok M. Raichur, Indian Institute of Science, Bagalore • F. ThomINETTE ENSAM, Paris • G. Pugazhenth, IITG, Guwahati, India |
| 4. | Workshops on Science and Traditional Practices Marma Vaidya (April 30th and May 1st, 2011) | IUCSSRE (Inter University Centre for Social Science Research and Extension | <ul style="list-style-type: none"> • Dr. P.K. Sasidharan, Sreesankara University, Kalady • Dr. Prakasan Gurukkal, Athmaraksha Kalari gurukulam, Kollam • Dr. Sanal Mohan, IUCSSRE, M.G. University • Dr. Amruth M., Scientist, KFRI. |
| 5. | Workshops on Science and Traditional Practices b) Shelters- the relevance of Vastu (May 16, 2011) School of Environmental Sciences, Mahatma Gandhi | ACESSD | <ul style="list-style-type: none"> • Dr. P.V. Ouseph, department of Vastu Vidhya, Sreesankara university, Kalady • Sri. R.V. Achari, |

| | | | |
|----|---|--|--|
| | University, Kottayam, Kerala. | | <p>Fellow, Indian Institute of Structural Engineers, Bangalore</p> <ul style="list-style-type: none"> • Dr. G. Gopikuttan, Chairman, Working group on Housing for 11th five year plan • Prof. Kesavan Veluthat, Former Professor, Delhi University. |
| 6. | National conference on Disaster risk and vulnerability, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011 | National Disaster management Authority, MoES, DST | <ul style="list-style-type: none"> • Dr. T.V. Ramachandra, IISC Bangalore, • Bhattacharya R, Atomic Energy Regulatory Board, Mumbai • Ansari j, NIIST, Trivandrum |
| 7. | Second International conference on Advanced Oxidation Process, October 5-8, 2012, Kottayam. | Board of Research in Nuclear Science (BRNS) ISRO, CSIR | <ul style="list-style-type: none"> • W. Choi, Pohang University of Science and Technology, South Korea • D. Bahnemann, Leibniz University of Hannover, Germany • S.K. Sarkar, BARC, Mubai |
| 8. | National Conference on Conservation and Management Of Wetland Ecosystems, In Association with SES, MGU, Kottayam, November 6-9, 2012. | CSIR, MoES, MoEF, DoECC, KSCSTE | <ul style="list-style-type: none"> • Dr. T.V. Ramachandra, IISC Bangalore, • Dr. V.S Vijayan, Former Director SACON • Dr. S. Narendraprasad, International Institute of Information Technology, Hyderabad |
| 9. | National seminar on sustainable development – recent trends in meeting the challenges, School of | Directorate of Environment and Climate Change, | <ul style="list-style-type: none"> • Dr. T.V. Ramachandra, IISC Bangalore, |



| | | | |
|----|---|--|--|
| | Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 20-21, 2012, Kottayam. | Govern of Kerala | <ul style="list-style-type: none"> • Dr. Sultan Ahmed Ismail, Ecoscience Research Foundation, Chennai • Dr. R. Ajaykumar Varma, Scientist, NCESS, Trivandrum |
| 10 | International conference on membranes (ICM-2013), October 3-6, 2013, Kottayam. | CSIR, DRDO, BARC | <ul style="list-style-type: none"> • Mark R. Weisner, Duke University, USA • Quang Trong nguyen CNRS-Rouen University, France • Takeo Yamaguchi, Tokyo Institute of Technology, Japan |
| 11 | Seminar on Conservation of Western Ghats, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 16th December 2013. | ACCESSD | <ul style="list-style-type: none"> • Dr. V.S. Vijayan, Former Director, SACON • Prof. Jose J. Ozhukayil, Nirmala college, Muvattupuzha • Dr. A.V. George, Former V.C., M.G. University |
| 12 | Third International Conference on Advanced Oxidation Processes (AOP 2014) Sept. 25-28, 2014, Munnar, Kerala. | DoECC, CSIR, DST | <ul style="list-style-type: none"> • J.P. Mittal, BARC, Mumbai • L. Gomathi Devi, Bangalore University, Bangalore • Minjoong Yoon, Chungnam National University, Korea |
| 13 | International Conference on Water: from pollution to purification (ICW - 2015) Jan. 23- 26, 2015, Kottayam, Kerala | <p>Defense and Development Organization (DRDO),</p> <p>Board of Research in Nuclear Science (BRNS)</p> | <ul style="list-style-type: none"> • Dipankar Chakraborti, Jadavpur University, Kolkata, India • Dayanthi Nugegoda, RMIT University, Australia • Olfa Mahjoub, National Research Institute for Rural Engineering, Water and Forestry, Tunisia |

| | | | |
|----|---|---|--|
| 14 | National workshop on applications of membranes in energy and water purification (NWM2015) Aug. 20-21, 2015 | Toshniwal, India Defense and Development Organization (DRDO) | <ul style="list-style-type: none"> • Andreas Kaiser, Technical university of Denmark, Denmark • Jacelyn Rice, Duke University, USA |
| 15 | International Conference on Membranes (ICM - 2015) Aug. 21-24, 2013, Kochi, Kerala | Anton Paar, India Toshniwal, India Defense and Development Organization (DRDO) | <ul style="list-style-type: none"> • Vladimir Teplyakov, Russian Academy of Science, Russia • Gianni Golemme, University of Calabria, Italy • Balagopal Nair, Noritakeco, Ltd, Aichi, Japan |
| 16 | National Workshop on Mass Spectrometry and Raman Microscopy, March 27-28, 2015, Kottayam | ThermoFisher Scientific Waters India | <ul style="list-style-type: none"> • S. Prabhakar, IICT, Hyderabad • Hitesh Mamgain, Toshniwal Pvt Ltd, Bangalore |
| 17 | International Conference on Mass Spectrometry, December, 11-14, 2015, Kottayam | DRDO, DST-SERB, KSCST, ThermoFischer | <ul style="list-style-type: none"> • Michael W. Linscheid, Humboldt University, Berlin, Germany • Laurent Debrauwer, University of Toulouse, France • Venkateswarlu Panchagnula, NCL |
| 18 | National Workshop on Mass Spectrometry, December 10-11, 2015, Kottayam | Thermo Fisher Scientific, Indian Space Research Organisation (ISRO) | <ul style="list-style-type: none"> • Mahesh J. Kulkarni, National Chemical Laboratory, Pune • V. Nadaraju, Baba Atomic Research Centre, Mumbai. |
| 19 | International Conference on Water: from pollution to purification (ICW - 2016) Dec. 12-15, 2016, Kottayam, Kerala | Kerala State Council for Science, Technology and Environment (KSCSTE), Defense and Development Organization (DRDO), Board of Research in Nuclear Science (BRNS) | <ul style="list-style-type: none"> • Jacob de Boer, Professor VU University, The Netherlands, • S. Vigneswaran, University of Technology, Sydney, Australia • G.G Pandit, BARC, Mumbai, India |



31. Code of ethics for research followed by the departments:

- Plagiarism will be assessed before thesis submission and submission of research papers for publication.
- The guidelines of the ethical committee of the University are being strictly followed (e.g. Animal Ethical Committee for all kind of research related to living organisms)

32. Student profile programme-wise:

| Name of the Programme (refer question no. 4) | Applications received | Selected | | Pass percentage | |
|---|---|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Ph.D | Direct entry after clearing JRF, M.Phil and other qualifying examinations | 16 | 15 | 37% | 20% |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Ph.D | 40 | 60 | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

| Sl.No. | Name of Student | Test Qualified | Specify (State/National/International) |
|--------|--------------------|-----------------|---|
| 1. | Dr. Disha V.J | CSIR- JRF | National |
| 2. | Akhil G | CSIR- NET, GATE | National |
| 3. | Subha Sasi | KSCSTE | State |
| 4. | Manjumol Mathew | CSIR- JRF | National |
| 5. | Shalumon C.S | UGC- NET | National |
| 6. | Mary Lidiya Mathew | KSCSTE | State |
| 7. | Elvin Thomas | CSIR- JRF | National |

35. Student progression :

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Post-Doctoral | Nil |
| Employed | 100% |
| Campus selection | |
| Other than campus recruitment | |
| Entrepreneurs | |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | |
| from other universities within the State | 67% |
| from universities from other States | 33% |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil**38. Present details of departmental infrastructural facilities with regard to**

| | |
|---|---|
| a) Library | 393 Books |
| b) Internet facilities for staff and students | Available for staff and students |
| c) Total number of class rooms | 1 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Nil |
| f) Research laboratories | 4 <ul style="list-style-type: none"> • Analytical Lab • Biodiversity Lab • Ecology and Climate change Lab • Molecular biology Lab |

List of major equipments

- | | |
|---|--|
| 1. Field Spec Had Held Spectro-radiometer | 12. Chilled Water Circulator |
| 2. Ion Chromatograph | 13. Trinocular Stereo Zoom Microscope |
| 3. Peristaltic Pump | 14. Vacuum Oven |
| 4. Total Organic Carbon Analyzer | 15. Impedance analyzer |
| 5. GPS GPSMAP76CSX | 16. Microbalance |
| 6. GPS eTrex 30 | 17. COD Meter |
| 7. GPS eTrex 20 | 18. Nikon Trinocular Stereo Zoom Microscope with Digital Camera and Drawing Tube |
| 8. Canon EOS 7D DSLR | 19. Automated Soil Respiration System and Accessories |
| 9. Binocular stereo Microscope | 20. Invitrogen – VERITI 96W Thermal Cycler Gradient PCR |
| 10. Membrane filtration Unit dead end | |
| 11. Membrane filtration unit Cross flow | |



21. Elcometer 4340 Motorised
Film Applicator
22. Cooling Centrifuge

23. Gel electrophoresis system
24. CO₂ incubator

39. List of doctoral, post-doctoral students and Research Associates

| Name of Guide (with contact no.) | Name of Scholar | Subject/ Specialization |
|-------------------------------------|---|---|
| Dr. K. Usha | Disha V.J (Ph.D Awarded) | Chemistry |
| | Divyalakhmi T.V (Ph.D Awarded) | Chemistry |
| | Nikhil Chandra P. | Chemistry |
| | Akhil G | Chemistry |
| | Subha Sasi | Environmental Science |
| | Manjumol Mathew | Chemistry |
| | Misha T. Elias | Chemistry |
| | Shalumon C.S | Environmental Science |
| | Dr. Sathish Kumar | Environmental Science (Rheumatology) |
| | Lidiya Mary M. | Environmental Science |
| Dr. G Christopher | Veena George M | Environmental Science |
| | Banazair O.A | Environmental Science |
| | Binu N. Kamalolbhavan | Forestry |
| | Malik Fasil M | Forestry(wildlife science) |
| | Aneesh K.S. | Forestry |
| Prof. A.P. Thomas | Prasanth Narayanan (Ph.D Awarded) | Environmental Science |
| | Koshy P.M (Ph.D Awarded) | Environmental Science |
| | Sukumaran T.C. (Ph.D Awarded) | Environmental Science |
| | Johnykutty J. Ozhukayil (Ph.D Awarded) | Environmental Science |
| | Sreekanth N.P. (Ph.D Awarded) | Environmental Science |
| | Shanthi prabha V. (Ph.D Awarded) | Environmental Science |
| | Sreedharan K. (Ph.D Awarded) | Environmental Science |
| | Babu Padmakumar | Environmental Science |
| | Jojo Joseph Vellanikaran | Environmental Science |
| | Vijo Thomas Kurian | Environmental Science |
| | Poornima Baby | Environmental Science |
| | Sethulakshmi Bhai K.C. | Environmental Science |
| | Deepthi S | Environmental Science |
| | Cinnie Susan Antony | Environmental Science |
| | Anuja R. | Environmental Science |
| | Elvin Thomas | Environmental Science |
| | Dr. Harsha H.T. (Post Doctoral Fellow) | Environmental Science |

40. Number of post graduate students getting financial assistance from the university:

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. The faculty council carried out a series of discussions and consulted external experts to initiate the various research divisions of the Centre

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Not applicable |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Regular feedbacks obtained from Ph.D scholars helped fine tuning the programme |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni extend support for the running activities of the Centre |

43. List the distinguished alumni of the department (maximum 10):

| S.No | Name | Current Position |
|------|-----------------------------|--|
| 1. | Dr, T.U. Sukumaran | Prof. of pediatrics, Pushpagiri Medical College, Thiruvalla. |
| 2. | Dr. Johntkutty J. Ozhukayil | Head of the Department of Physics, MES College, Nedumkadam |
| 3. | Dr. Koshy P.M | Associate Professor, St Stephens College, Pathanapuram |
| 4. | Dr. Shijo Joseph | Scientist, Kerala Forest Research Institute, Thrissur |
| 5. | Dr. Disha U J | Assistant Professor, Henry Baker College Melukavu, Kerala, India |

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:

There are periodic workshops and training programmes organized by the Centre. Special lectures of many visiting scholars from India and abroad were organized. Students are also encouraged to attend special lectures organized in other departments and schools.

| Student enrichment programmes | Number of programmes |
|---|----------------------|
| Special lectures (Erudite, national and international talk) | 15 |
| Workshops | 14 |
| Seminar | 12 |

45. List the teaching methods adopted by the faculty for different programmes:

- Field work in Ph.D programmes
- Operational demonstrations for instrumentation training



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

There are two mandates for the Centre (1) Interdisciplinary Research (2) Societal applicability in sustainable manner. Faculty council regularly monitors and assesses the progress of the Centre. In addition, an Executive Committee and an Academic Committee have been constituted by the University which oversee the functioning of the Centre.

47. Highlight the participation of students and faculty in extension activities.

- Consultancy service in chemical analysis.
- Voluntary participation in biodiversity surveys and bird studies organized by various conservation groups and State Forest Department.

48. Give details of “beyond syllabus scholarly activities” of the department.

- A series of workshops on ‘Science and Traditional Knowledge’ with community participation
- Short term training programmes for researchers, faculty members and students from within and outside the university.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- The biodiversity group of the Centre has identified and reported new species of earthworms from different habitat types across Kerala.
- Developed sustainable green technology solutions like membrane technology for water purification
- Generated new information on the impact of land use changes in climate change
- Furnished new information on the impact of pesticides in Cardamom plantations
- Brought out the environmental status of selected tribal communities in Idukki District
- Contributed to the ecology of avifauna in Vembanad Wetlands
- Application of biochar in paddy cultivation and climate change management
- Provided information on the environmental predisposing factors of bronchial asthma

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

1. The Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) stands for interdisciplinary research which involves generation and integration of knowledge aiming at evolving sustainable development strategies.

2. ACCESSD is envisaged as a Centre where all branches of Science, Social Science as well as Humanities converge.
3. Presence of adjunct faculty members from various disciplines to support the research activities of the centre.
4. Healthy work culture and maintenance of good relationship between faculty, researchers and administrative staff.
5. ACCESSD has seven research divisions where interdisciplinary research programmes are carried out. It runs Ph.D. programme and at present there are 22 research students.

Weakness:

1. Lack of adequate research staff.
2. Insufficient number of research supervisors.
3. Constraints for transferring research funds from funding agencies as there are no permanent faculty in the Centre.
4. Many research scholars are not supported by proper fellowships.
5. Lack of adequate space, expert technicians to operate sophisticated instruments, sufficient provision for capacity building and advanced training for the staff

Opportunities:

1. As the centre envisages interdisciplinary /multidisciplinary studies there is ample provision for interactions, collaborations and linkages with various institutions within India and abroad.
2. Students from other disciplines can be attracted for studies in interdisciplinary dimension, an emerging trend all over the world.
3. Opportunities to provide extension services in the local and regional levels.
4. Establishing provision for better student placements and furthering of research activities with the linkages already established.
5. Potentiality for collaborating with society oriented sustainable activities of local bodies and government.

Challenges:

1. Generation of better output with the available resource and facilities.
2. Implementation of the norms in the Government regulations for enriching the research activities to generate the envisaged output (*Scientist in the tenure track mode, Ph.D guideship, streamlining the transfer of Govt. funds to the University etc.*)
3. Lack of sufficient space, infrastructure and research staff.
4. Need for additional facilities for research in frontier areas.
5. Utilizing effective linkages with industries.
6. Strengthening capacity building programme of the faculty and research groups.



52. Future plans of the department.

1. Proposed Projects

- Polyelectrolyte multilayer membranes for the treatment of paper and pulp industry waste water.
 - Innovative Nano filtration membranes and improved membrane processes for textile dye removal and salt recovery from dye bath waste water.
 - A study on the communities, resource use patterns and conservation issues in the cardamom hills of Southern Western Ghats.
 - A study on the impacts of agrochemicals including pesticides in the Cardamom Hill Reserves and plantations in Idukki district, Kerala.
 - Development of self-assembled multilayer and their application in the removal of low molecular organic compounds.
 - Biodiversity status and Human – ecological assessment of the proposed High range Biodiversity park at Nedumkandam and adjacent areas.
 - Watershed development programme in Mahatma Gandhi University campus.
2. Conduct of International / National conferences.
 3. Strengthening of training programmes.
 4. Starting research projects under the Post-Doctoral Fellowship scheme.
 5. Better facilitation of student exchange programmes.

INTER UNIVERSITY CENTRE FOR BIOMEDICAL RESEARCH & SUPER SPECIALTY HOSPITAL

| | | | |
|----|--|---|--|
| 1. | Name of the Department | : | Inter University Centre for Biomedical Research & Super Specialty Hospital |
| 2. | Year of establishment | : | 2015 |
| 3. | Is the Department part of a School/ Faculty of the University? | : | An independent Institute created as an act of Govt. of Kerala Regulation in 2013, and mentored by MG University |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph.D; No other programme is initiated yet. |
| 5. | Interdisciplinary programmes and departments involved | : | Inter- and Intra-University; Inter-institutional programs with multidisciplinary aspects |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Under discussions and negotiation with: (i) AcSIR, New Delhi, for academic affiliation; (ii) EURON a conglomerate of 13 Universities with Head-Quarters in University of Maastricht, The Netherlands, for academic affiliation; (iii) Swinburne University of Technology, Melbourne for academic affiliation; (iv) Center of Excellence in Drug Discovery (National Facility for Drug Discovery & Development), Saurashtra University, Rajkot for drug discovery programs; (v) CSIR-IICB, Jadavpur, Kolkata for co-development of a drug molecule. (vi) Bangur Institute of Neurology, Kolkata for collaborative clinical research in the area of neurological disease |
| 7. | Details of programmes discontinued, if any, with reasons | : | NA |
| 8. | Examination System | : | NA |



| 9. | Participation of the department in the courses offered by other departments | : | NA | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------|---|--|------------|--------|------------------------------|----------|---|---|---|-------------------|---|---|--------|-----------------|---|---|--------|------------|---|-----|---------------|
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | <table> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual (including CAS & MPS)</th></tr> <tr> <td>Director</td><td>1</td><td>1</td><td>1</td></tr> <tr> <td>Senior Scientists</td><td>2</td><td>2</td><td>Joined</td></tr> <tr> <td>Inspire Faculty</td><td>1</td><td>1</td><td>Joined</td></tr> <tr> <td>Scientists</td><td>2</td><td>---</td><td>Under Process</td></tr> </table> | | Sanctioned | Filled | Actual (including CAS & MPS) | Director | 1 | 1 | 1 | Senior Scientists | 2 | 2 | Joined | Inspire Faculty | 1 | 1 | Joined | Scientists | 2 | --- | Under Process |
| | Sanctioned | Filled | Actual (including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Director | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| Senior Scientists | 2 | 2 | Joined | | | | | | | | | | | | | | | | | | | | |
| Inspire Faculty | 1 | 1 | Joined | | | | | | | | | | | | | | | | | | | | |
| Scientists | 2 | --- | Under Process | | | | | | | | | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|---------------------|---------------|-----------------------|--|----------------------------|--|
| Dr. K P Mohanakumar | Ph.D. | Director | Molecular Pharmacology/Neurosciences | 35 years | 12 |
| Dr. Usha Rajamma | Ph.D. | Senior Scientist | Genetics, Molecular Biology, Neuroscience | 21 years | 4 |
| Dr. Rajesh A Shenoi | Ph. D. | Senior Scientist | Polymer Chemistry, Macromolecular Therapeutics, Drug Design and Development | 12 years | - |
| Dr. Resmi Anand | Ph.D. | Inspire Faculty (DST) | Polymer-based Drug Delivery Systems, Drug-Carrier Interactions and Biomaterials for Tissue Engineering and Regenerative Medicine | 2 years | - |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

- Nil

13. Percentage of classes taken by temporary faculty – programme-wise information:

- Nil

14. Programme-wise Student Teacher Ratio

- NA

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

: Academic Support staff

- Nil

: Admin. Staff

- Four

16. Research thrust areas as recognized by major funding agencies:

- (i) Drug Development, (ii) Viral Disease Research, (iii) Developmental Disabilities, (iv) Geriatric Diseases

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**a) national**

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|---------------------|---|----------------------------------|---|--------------------------------------|
| Dr. Usha Rajamma | | | | |
| 1. | Association of Monoamine Transporter Genes with Autism: Special Reference to Equilibrative Nucleoside Transporter 4 (ENT4 or SLC29A4) and Vesicular Monoamine Transporter-2 (VMAT-2 or SLC18A2) genes | 3 Years, Feb 2015 – Jan 2018 | Indian Council of Medical Research (ICMR), Govt. of India | 27.70 |
| 2. | Exploratory investigation on the role of folate system in childhood onset neurodevelopmental disorders. | 3 Years, Feb 2015 - Jan 2018 | Indian Council of Medical Research (ICMR), Govt. of India | 57.00 |
| Dr. Resmi Anand | | | | |
| 1. | Development of injectable hydrogel-based delivery system for cartilage tissue repair | 5 Years, 2017-2022 | Department of Science & Technology, Govt. of India (under DST-INSPIRE Faculty Scheme) | . 83.00 |
| Dr. K P Mohanakumar | | | | |
| 1. | Dysregulated circulating melatonin in pathophysiological processes in Parkinson's disease (PD): a study on experimental Parkinsonism in animals and in PD patient population from eastern India | 3 Years, April 2017 - March 2020 | Indian Council of Medical Research (ICMR), Govt. of India | 43.90 Lakhs (Final approval awaited) |



b) international: Nil

c) Total grants received: 167.7 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

1. Between IUCBR & SSH and Bangur Institute of Neurology, Kolkata - Rs. 44 lakhs
2. Between IUCBR & SSH and Manovikas Kendra, Kolkata (Two projects) - Rs. 84.70 lakhs

b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

| SL. No | Project Title | Funded by | Amount (₹ in Lakhs) |
|--------|---------------------------|-----------|---------------------|
| 1. | Drugs from Ayurveda herbs | DBT | 20.00 |

Total grants received: ₹ 20 Lakhs

20. Research facility / centre with

- ☐ State recognition : Yes
- ☐ National recognition : Yes
- ☐ International recognition : Under consideration

21. Special research laboratories sponsored by / created by industry or corporate bodies : Under discussions/negotiations

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 177 |
| 2. | Monographs | - |
| 3. | Conference Proceedings | - |
| 4. | Chapters in Books | 3 |
| 5. | Edited Books | 3 |
| 6. | Books authored with ISBN | - |
| 7. | Books authored without ISBN | - |
| 8. | Articles in popular publications | - |
| 9. | Total | 183 |

| Sl. No. | Name of the Faculty | SNIP (Cumulative for all & last 5 years) | SJR (Cumulative for all & last 5 years) |
|---------|----------------------------|--|---|
| 1. | Dr. K P Mohanakumar | 94.008/33.107 | 149.872/52.756 |
| 2. | Dr. Usha Rajamma | 32.288/16.925 | 55.987/32.656 |
| 3. | Dr. Rajesh A Shenoi | 27.931/23.543 | 56.67/51.072 |
| 4. | Dr. Resmi Anand | 8.25/7.424 | 11.108/10.071 |

* Impact Factor – range / average; * h-index; *Citation Index – range / average (Total)

| Name of the Faculty | Total no. of publications | Cumulative Impact Factor | Citations (as on January 2017) | h-index | i-10 index |
|----------------------|---------------------------|--------------------------|--------------------------------|------------|------------|
| Mohanakumar KP | 114 | 376 | 3555 | 35 | 64 |
| Usha Rajamma | 36 | 107 | 635 | 16 | 20 |
| Rajesh Shenoi | 17 | 115 | 232 | 9 | 9 |
| Resmi Anand | 10 | 33 | 163 | 8 | 7 |
| Total for all | 177 | 636 | 4585 | --- | --- |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

| Sl. No. | Name of the faculty | Laboratory/ Research area with year |
|---------|---------------------|--|
| 1. | Dr. Usha Rajamma | 1. International Society for Autism Research (for IMFAR-2010), Genetics of Autism, Philadelphia, USA - 2010 2. Cornell University at Ithaca, One-week visit at the lab of M. Belmonte for acquiring ADOS program for the benefit of Autistic individuals in India - 2010 3. Society for Neuroscience, 2011 |
| 2 | Dr. Rajesh A Shenoi | 1. University of British Columbia, Vancouver, Canada, Macromolecular Therapeutics - 2008; 2010 2. American Chemical Society: Intl Meeting - Anaheim, CA - 2011 3. American Society of Hematology, San Diego, CA, 2011 4. Gordon Research Conference - Polymers, Boston, MA – 2011 |
| 3. | Dr. KP Mohanakumar | Only for the last Five Years 1. Intl Brain Research Organization (IBRO) - Intl School on Mitochondria: As Faculty - (i) at Punjab University, Oct 2015; (ii) Sri Lanka, Dec 2015; (iii) Ibadaan, Nigeria 2014; 2. International Society for Neurochemistry (i) Yearly Twice : Selection Committee Meetings for Grant in Aid for Conferences (ii) Once in two years: Young Scientists Award |



| | | |
|--|--|--|
| | | <p>Selection Committee Meetings</p> <p>(iii) Yearly once anywhere in the world for attending the International Society for Neurochemistry (ISN) as ISN elected member during 2011-2015.</p> <p>(iv) ISN-IBRO Fellowship Institution Committee</p> <p>3. Review member of the NIH, USA for project review: on-line reviewer or by attending meeting at designated locations in the USA.</p> |
|--|--|--|

26. Faculty serving in

a) National committees - Two

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Dr. KP Mohanakumar | 1. DBT Neuroscience Taskforce 2. Coordinator, MIND (CSIR-2011-2015) |

b) International committees - One

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1 | Dr. KP Mohanakumar | 1. International Society for Neurochemistry (ISN), Conference Committee 2. Faculty Member of International Brain Research Organization (IBRO) for teaching at Neuroscience Schools |

c) Editorial Boards Five international HIF Journals; One Indian Journal

| Sl. No. | Name of the faculty | Journal |
|---------|---------------------|--|
| 1 | Dr. KP Mohanakumar | 1. Journal of Neurochemistry (Handling Editor), John Wiley & Sons; http://onlinelibrary.wiley.com/journal/10.1111/%28ISN%291471-4159 2. Neurochemistry International, Elsevier Press; http://ees.elsevier.com/nci/ 3. Neurochemical Research, Springer; http://www.springer.com/biomed/neuroscience/journal/11064 4. Anatomy and Cell Biology; http://www.acbjournal.com . 5. Neuroscience & Medicine; www.scirp.org/journal/nm 6. Journal of Cell & Tissue Research (Editor); http://tcjournals.com/tr_journalcms.php |

d) any other (please specify)

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1 | Dr. KP Mohanakumar | <ul style="list-style-type: none"> • Faculty Selection Committees of NBRC, Gurgaon; University of Calcutta, Kolkata; Central Universities including Kerala Central University Kasargode; CDRI, Lucknow; Jadavpur University, Kolkata, etc. • Board of Examiners for Ph.D: Several Universities, AcSIR, and IITs |

27. Faculty recharging strategies (UGC, ASC, Refresher/ orientation programs, workshops, training programs and similar programs).

Conducted One International seminar and two national level conferences in the area of neuroscience during 2016-17 (Financial Year)

28. Student projects

- ☐ Percentage of students who have done in-house projects including inter-departmental / Programmes

NA

- ☐ Percentage of students doing projects in collaboration with other universities / industry / institute

NA

29. Awards / recognitions received at the national and international level by

- Faculty

| Name of Faculty | Research awards received by the faculty |
|--------------------|---|
| Dr. KP Mohanakumar | 1. Prof. DP Burma Oration, Life Time Achievements in Neurochemistry, 2016 |

- Doctoral / post doctoral fellows: Nil
- Students: Nil



30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|------|---|--|--------------------------|
| 1. | Symposium on “Neural Functions of the Aging Brain (NFAB)”, September 27-28, 2016 at Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram | Department of Higher Education, Government of Kerala. | |
| 2. | Neurocon-2017, A Biennial International Meeting of Neuroscientists | by Govt of India Agencies, and iCARE Hospitals, Haldia, West Bengal | |
| 3. | NeuroUpdate-2016 An Annual Meeting of Neurologists and Neuroscientists | Drug Companies and NeuroUpdate-Forum of neurologists and neurobiologists | |

31. Code of ethics for research followed by the departments:

To keep the research efforts and output at International Standards the institute has in place or currently formulating strict guidelines for checking plagiarism; statutory human ethics and animal ethics committees; students-mentoring committees; hand-holding advisory programs and students-self-help programs.

32. Student profile programme-wise: NA

33. Diversity of students: NA

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. : NA

35. Student progression : NA

36. Diversity of staff :

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | 25% |
| from other universities within the State | nil |
| from universities from other States | 50% |
| from universities outside the country | 25% |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

- a) Library Books purchased during the period : About 10 Books (by way of Donation)
- b) Internet facilities for staff and students : Available
- c) Total number of class rooms : NA
- d) Class rooms with ICT facility : NA
- e) Students' laboratories : NA
- f) Research laboratories : About 06 - Under Development

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university : NA
- b) from other institutions/universities : One

40. Number of post graduate students getting financial assistance from the university:
One from DBT.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

- New programmes are always under taken with after having the thorough discussion with stake holders.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? - NA
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? - NA
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? - NA

43. List the distinguished alumni of the department (maximum 10) :
NA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :

Two national and one international seminar were conducted



45. List the teaching methods adopted by the faculty for different programmes.

- Chalks & Black Boards/White Boards and colour sketch pens for outreaching programs;
- Group discussions and debates for mentoring programs

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? For the institute alone there is an Academic committee formed with eminent scientists from biomedical sciences including basic scientists and clinicians. The institute has plans to conduct six monthly projects-progress monitoring committee with external members, possibly from the funding agencies. Divisional (Sub-centres) assessment of progress are planned every 4 months.

47. Highlight the participation of students and faculty in extension activities.

- a. Provide state-of-the-art, advanced knowledgebase by giving invited talks at major Universities and Institutes of higher learning
- b. Provide occasional mentoring programs at other institutes and colleges for selected category of students.

48. Give details of “beyond syllabus scholarly activities” of the department.

- a. Conduct medical camps and population-based research-surveys
- b. Deliver plenary/special lectures as per the need of other institutions
- c. Scientific knowledge dissemination by outreaching by publications, leaflets and other modes of communications amongst the masses
- d. By volunteering review of articles submitted to peer reviewed journals
- e. By evaluating Projects submitted to National agencies such as DST/ DBT/ ICMR/UGC/DRDO, etc. for funding
- f. By evaluating MD/MS/MTech/MPharm/Ph.D theses

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. -NA

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- a. By publishing the data in peer reviewed journals
- b. By reviewing and publishing state-of-the-art knowledgebase that has reached a certain height
- c. Accumulation of knowledgebase from a discipline by generating compilation of articles

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

1. High-end Faculty Expertise: Faculty in the Institute is with 8-35 years experience in biomedical research in specialty areas such as neurochemistry/ neurobiology/

neuropharmacology, neurogenetics, polymer therapeutics, drug design and development.

2. Availability of infra structure (Building) for establishment of advanced laboratory facilities
3. Financial grant / Funds available for specialty laboratory establishment
4. Interdisciplinary nature of expertise, conducive to the amalgamated programmes of biomedical research
5. Advanced State of the art instrumentation facility being created

Weaknesses

1. Difficulty in communication: The institute being far away from the national/international airports, communication with national/international research community has become difficult.
2. Lack of opportunities/infrastructure for taking the discoveries to translational level
3. De-recognition of Temporary/Adhoc Faculty as Registered Guides/Mentors for higher degrees as per the new UGC regulations

Opportunities

1. Being a new institute, opportunities galore
2. Excellent opportunities for higher studies India and abroad

Challenges

1. Getting academic recognition from national/international bodies
2. Establishment of multidisciplinary projects/facilities
3. Continued funding for research and development activities
4. To attract competitive talents to join the institute
5. Meeting the expectations of translational outcome

52. Future plans of the department.

| Infrastructure (Buildings) | |
|--|---|
| Building | <ol style="list-style-type: none"> i. Registration of Phase I, Block A,B,C ii. Completion of Phase I C iii. Taking up construction Phase II, Block A, |
| Building | <ol style="list-style-type: none"> a. Animal House b. Quarters c. Guest House d. Student Hostels |
| Establishment of Laboratories | |
| Centre for Communicable Diseases: Control & Prevention (CCDCP) | |
| CCDCP | <ol style="list-style-type: none"> i. Recruitment of personnel ii. Infrastructure development (Virus research laboratory, Immunology, Viral genetics lab iii. Approval from Regulatory authorities |



| | |
|---|--|
| | <ul style="list-style-type: none"> iv. Epidemiological Survey v. Diagnosis (Nucleic acid based, Immunology based) vi. Therapeutics (Vaccine development) |
| Centre for Development & Aging Research (CDAR) | |
| Developmental Disabilities | <ul style="list-style-type: none"> a. Epidemiology b. Identification of risk factors c. Molecular diagnostics and therapeutics d. Mechanistic investigations e. Stem cell research facility f. Transgenic facility g. Cybrids facility |
| Geriatrics | <ul style="list-style-type: none"> i. Epidemiology ii. Identification of risk factors iii. Molecular diagnostics and therapeutics iv. Mechanistic investigations v. Stem cells/Transplantation research facility vi. Transgenic facility vii. Cybrids facility viii. Biobehavioral laboratory facilities |
| Centre for Drug Discovery (CDD) | |
| | i. Interdisciplinary efforts |
| | ii. Synthetic efforts |
| | iii. Complimentary medicine |
| | iv. Toxicology |
| | v. Drug formulation |
| | vi. Pharmacology |
| | vii. ISO/GLP/GMP certification |
| Library & Information | |
| Establishment of Library | <ul style="list-style-type: none"> • Constitution of Library committee |
| Information dissemination | <ul style="list-style-type: none"> • 'Words Worth Society': Publication of What's Life, BMC |
| Academic Activities | |
| | i. Ph D and Short-term courses |
| | ii. Establishment of collaborations, MoU (National and International) |
| | iii. Major grant applications |
| | iv. Five Year Plan Programme from Government of Kerala |
| | v. Collaborative activities with Department of Health |
| | vi. Yearly planned programmes with Higher Education Department |
| | vii. Organization of international and national symposia/conferences |
| | viii. Training programmes |



INTER UNIVERSITY CENTRE FOR DISABILITY STUDIES

| | | | | | | |
|-----|---|---|--|-------------------|--------|------------------------------|
| 1. | Name of the Department | : | Inter University Centre for Disability Studies | | | |
| 2. | Year of establishment | : | 2010 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Behavioural Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | M.Phil in Disability Studies | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Inter disciplinary research including Psychology, special education, technology, clinical psychology and social work | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | NA | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Semester (Choice Based Credit System) | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Teaching M.Sc Disability Studies, M.Sc. Psychology and M.Phil Rehabilitation medicine courses in School of Behavioural Sciences. | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled | Actual (including CAS & MPS) |
| | | | Professor | | | |
| | | | Associate Professors | | | |
| | | | Asst. Professors | | | |
| | | | Others | 04 Contract basis | 02 | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|-------------------|--|------------------------------|-------------------------------|----------------------------|--|
| Dr.P.T Baburaj | Msc. MA,MEd. PhD | Hon. Director | Auditorilly Handicapped | 25 | |
| Mrs.Hena N.N | M.Sc (Health &Behavioural Sciences), M.Phil (Psy.) | Research Associate /Lecturer | Health & Behavioural Sciences | 10 | M.Phil-4 |
| Mrs.BilgyK.George | M.Sc(Psy.), M.Phil (LD), NET | Research Associate /Lecturer | Psychology | 7 | M.Phil-3 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professor

| |
|--|
| 1. Mr.Vijesh P.V, Physiotherapist, Sree Chithira Institute of Medical Sciences, Thiruvananthapuram |
| 2. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally |
| 3. Mr. Mathew Kanamala, Head of the Department of Social Work, St. Josephs College, Moolamattom. |
| 4. Dr. A.P. Varma, Occupational Health Physician, Adithya Birla Group. |
| 5. Ms.Suseela, Certified Yoga Trainer |
| 6. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin. |
| 7. Dr. Roshan Bijly, Director, CRC, Kozhikode. |
| 8. SujithBabu, Clinclal Psychologist, Kottayam |
| 9. Dr. Babu George, Child Development centre, Thiruvananthapuram |
| 10. Mamman Joseph C, Ast. Professor Central University Karnataka |
| 11. Dr. Sebastian Rupert Mampulli, Prof. School Of Management Studies, Cochin University of science and technology, Ernakulam. |
| 12. Dr. Anilakumari, Assistant Professor, CUTECH, Vadakara, Calicut. |
| 13. Mr. V.Sriram, Chief Librarian, Centre for Development Studies (CDS), Trivandrum. |
| 14. Mr. Vinod S.S, Clinical Psychologist, IUCDS, Guest faculty |
| 15. Ms. Priya Varghese, Clinical Psychologist, Pushpagiri Medical College,Thiruvalla |
| 16. Vipin Chandralal, Clinical Psychologist, Pushpagiri Medical College, Thiruvalla |
| 17. Dr. M.R. Gopalakrishnan, Social worker, counsellor, yoga master and Pranik Healer, Gurukulam Training centre, Pampady |

| |
|--|
| 18. Adv. Amal Kasha, High court , Ernakulam |
| 19. Mrs. Divya Paul, Speech Therapist, Kusumagiri Mental Hospital, Kakkanad |
| 20. Mrs. Anitta Paul, Special educator , Vigyan valley Learning Centre, Ernakulam |
| 21. Sr. Jyothi, Special educator , Kusumagiri Mental Hospital, Kakkanade |
| 22. Mr. Ramesh B. Nair, Jt. Director, Statistics and Planning department, Rubber board ,Kottayam |
| 23. Prof. Dr. M.S. Razeena Padmam, Director ,School of Behavioural Sciences, M.G. University |
| 24. Dr. Sandhya E, Associate Professor Prajyithi Nikethan College, Puthukkad, Trissure |
| 25. Dr. Jasmine, Assistant Professor, Law college, Gandhinagar |
| 26. Dr. Suresh Kumar. M, Assistant professor, Clinical Psychology, CRC, Kozhikode. |
| 27. Dr. Sunish T.V, Assistant professor in special education, CRC, Kozhikode. |
| 28. Subeesh Gopi, Performance Coach, Caliber ,Kottayam |
| 29. George Babu, Director, Caliber, Kottayam |
| 30. Dr. Suresh S, Assistant professor, Dept. of Pediatrics, Medical College Hospital. Kottayam |
| 31. Dr. P. Savidha, Professor and head of Pediatrics, Medical College Hospital Kottayam |
| 32. DR. Jiji Mary- Associate professor in Pediatrics, Medical College Hospital Kottayam. |
| 33. Dr. Rincy Joseph, Director, ALAN T21 Welfare Trust, Changanassery |
| 34. Sri. Sudheer Sakthan, Assistant professor in pediatrics, Medical college hospital, Kottayam |
| 35. Dr. K. Manikandan, Associate Professor & HOD, Dept. of Psychology, Calicut University |
| 36. Dr. Neeradha Chandramohan. Associate Professor. Department of Clinical Psychology. |
| 37. Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD |
| 38. Dr. K. Bala Baskar, Lecturer, Department of Adult Independent Living, NIEPMD |
| 39. Rev. Father Thomas Felix, Director of Central Institute on Mental Retardation, Trivandrum, Kerala |
| 40. Dr. Himangshu Das, Director of National Institute for Empowerment of Persons with Multiple Disabilities, Chennai (NIEPMD). |
| 41. Dr. M.K Jayaraj, State Institute for the Mentally Challenged, Trivandrum. |

13. Percentage of classes taken by temporary faculty – programme-wise information:

No temporary faculty

14. Programme-wise Student Teacher Ratio:

MPhil - 4:3

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

- Administrative staff -04
- Sanctioned -04
- (Coordinator Post Vacant -01, Field Messenger Post Vacant -01)

16. Research thrust areas as recognized by major funding agencies:

Funding agency: Department of higher education, Govt of Kerala.

1. Inclusion and inclusive education.
2. Aging and disability management.
3. Tool development for persons with disabilities.
4. Community based rehabilitation programmes and policies.
5. Disability inclusive disaster management.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

Community based intervention projects in association with Santhigiri Rehabilitation Institute, Vazhithala P.O, Thodupuzha- 685583 and Theeradesa Raksha Social Welfare Society (TRSWS), Reg. No. 566/2001, Sidco building, Beach Road, West Hill P.O, Calicut- 673005.

IUCDS granted an amount of Rs.2 Lakhs each to the agencies.

| Sl. No | Topic | Institution |
|--------|---|--|
| 1. | “Empowerment of Persons with Disabilities (PWDs) through Community Integration” | Santhigiri Rehabilitation Institute, Vazhithala P.O, Thodupuzha- 685583 |
| 2. | “Skill development training programme to the persons with disabilities” | Theeradesa Raksha Social Welfare Society (TRSWS), Reg. No. 566/2001, Sidco building, Beach Road, West Hill P.O, Calicut- 673005. |

b) International collaboration: Nil**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil****20. Research facility / centre with**

- ☐ State recognition: Yes, IUCDS is a centre established by the Dept. of higher education, Govt. of Kerala
- ☐ National recognition Nil
- ☐ International recognition Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil**22. Publications:**

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 14 |
| 2. | Monographs | 0 |
| 3. | Conference Proceedings | 11 |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | 0 |
| 6. | Books authored with ISBN | 0 |
| 7. | Books authored without ISBN | 0 |
| 8. | Articles in popular publications | 0 |
| 9. | Total | 27 |

23. Details of patents and income generated : Nil**24. Areas of consultancy and income generated :**

| Sl No | Programme | Income (₹ in Lakhs) |
|-------|---|------------------------|
| 1. | Income generated from consultancy (DREAMS) – (Remedial coaching, counselling, Speech therapy, Physiotherapy and Psychological consultation) | 2.02 |
| 2. | Income generated from Certificate programmes , Workshops, Seminars and conferences | 3.15 |
| 3. | Total | ₹ 5.17 |

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad –Nil

26. Faculty serving in

1. National committees –

| Sl. No | Name of the faculty | Committee |
|--------|---------------------|--|
| 1. | Hena N.N | Member : Dementia Friendly Community initiative (DFC- initiative, Research and development centre, Alzheimer's and Related disorders society of India (ARDSI), India |
| | | Member, PAC, DIET, Ernakulum, |
| | | Member Institutional Ethical Committee, Alzheimer's and Related disorders society of India (ARDSI) |

b) International committees

c) Editorial Boards: 01

d) any other

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):

| Sl No | Programme | Number |
|-------|-----------------------|--------|
| 1. | Orientation programme | 0 |
| 2. | Workshops | 12 |
| 3. | Seminars | 06 |
| 4. | Certificate courses | 16 |

Research Methodology, 3/6/10 days workshop /CRE training –NIEPMD etc.

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : 100%
- percentage of students doing projects in collaboration with other universities /industry / institute

29. Awards / recognitions received at the national and international level by

- ☐ Faculty: Nil
- ☐ Doctoral / post-doctoral fellows: Nil
- ☐ Students:
 - UGC NET -1
 - RNGF -1

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

- List of short term programmes conducted at IUCDS

| Sl. No | Programme | Duration | Date | Funding | Level | Participants |
|--------|--|----------|--------------------------|-------------------------|-------------|--|
| 1. | Certificate course in Ageing and Disability Management | 5 days | 06.06.2011 to 10.06.2011 | Participants & DDF fund | State level | Students & Professionals |
| 2. | Training programme in management of behavioural problem among children | 5 days | 18.07.2011 to 22.07.2011 | Participants | State level | Students , Research scholars & Professionals |
| 3. | Certificate programme in counselling | 1 month | 17.10.2011 to 22.11.2011 | Participants | State level | Students , Research scholars & Professionals |
| 4. | Certificate programme in management of behavioural problems | 1 month | 04.01.2012 to 03.02.2012 | Participants | State level | Students , Research scholars & Professionals |
| 5. | Certificate programme in Early intervention for childhood disabilities | 10 days | 16.04.2012 to 27.04.2012 | Participants | State level | Students , Research scholars & Professionals |
| 6. | Certificate programme in counselling | 1 month | 09.05.2012 to 08.06.2012 | Participants & DDF fund | State level | Students & Professionals |
| 7. | Certificate programme in counselling | 1 month | 17.09.2012 to 16.10.2012 | Participants | State level | Students & Professionals |
| 8. | Workshop on classroom management and soft skills training | 3days | 17.10.2012 to 19.10.2012 | Participants | State level | Students , Research scholars & Professionals |
| 9. | Workshop on learning disabilities | 5 days | 30.10.2012 to 03.11.2012 | Participants | State level | Students , Research scholars & Professionals |



| | | | | | | |
|-----|---|---------|--------------------------|---|-------------|--|
| 10. | Workshop on research methodology | 5 days | 28.01.2013 to 01.02.2013 | Participants | State level | Students , Research scholars & Professionals |
| 11. | Workshop on project proposal writing | 1 day | 10.05.2013 | Participants | State level | Students , Research scholars & Professionals |
| 12. | Training on Learning Disabilities | 5 days | 13.05.2013 to 17.05.2013 | Participants | State level | Students , Research scholars, Professionals and disabled persons |
| 13. | Counselling – Advanced course | 10 days | 20.05.2013 to 31.05 2013 | Participants | State level | Students , Research scholars & Professionals |
| 14. | Management of behavioural problem among children | 10 days | 22.07.2013 to 02.08.2013 | Participants | State level | Students , Research scholars & Professionals |
| 15. | Continuous Rehabilitation Education (CRE) programme | 5 days | 07.10.2013 to 11.10.2013 | Participant, National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | State level | RCI registered professionals |
| 16. | Certificate course in counselling | 1 month | 25.11.2013 to 23.12.1013 | Participants | State level | Students , Research scholars & Professionals |
| 17. | Certificate programme on parenting of children with special needs | 5 days | 17.03.2014 to 21.03.2014 | Participants | State level | Parents, Research scholars & Professionals |
| 18. | Workshop on Autism spectrum disorder | 3 days | 24.04.204 to 26.04.2014 | Participants | State level | Students , Research scholars & Professionals |

| | | | | | | |
|-----|---|--------|--------------------------|--|-------------|--|
| 19. | Workshop on project design and proposal writing | 2 days | 26.05.2014 to 27.05.2014 | Participants | State level | Research scholars & Professionals |
| 20. | Continuous Rehabilitation Education (CRE) programme | 3 days | 25.06.2014 to 27.06.2014 | Participants, National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | State level | RCI registered professionals |
| 21. | Workshop on Research Methodology | 2 days | 28.08.2014 to 29.08.2014 | Participants | State level | Students , Research scholars & Professionals |
| 22. | Workshop on Research Methodology | 3 days | 16.09.2015 to 18.09.2015 | Participants | State level | Students , Research scholars & Professionals |
| 23. | Workshop on Learning Disability | 1 day | 15.02.2016 | Participants | State level | Students , Research scholars & Professionals |
| 24. | Certificate programme on Commemoration of World Zero Discrimination Day | 1 day | 01.03.2016 | DDF fund, National Service Scheme (NSS) & Department Students Union (DSU) | State level | Students & Professionals |
| 25. | World Down Syndrome Day | 1 day | 21.03.2016 | DDF fund, Alan T 21 Welfare Trust, Changanassery | State level | Students & Professionals |

• **List of seminars conducted at IUCDS**

| Sl. No | Topic | Duration | Associations | Date | Funding | Level | Participants |
|--------|---|----------|--|--------------------------|---|---------------|---|
| 1. | State level seminar on management and empowerment of persons with multiple disabilities | 2 days | National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | 13.09.2012 to 14.09.2012 | Participants | State level | Students , Research scholars, parents & Professionals |
| 2. | International seminar on Emerging trends in disability studies management | 1 day | | 08.01.2013 | Participants & DDF fund | International | Students & Professionals |
| 3. | Legal rights of persons with disabilities | 1 day | | 25.04.2013 | Participants & DDF fund | State level | Parents, disabled persons, Professionals |
| 4. | National seminar on "Technology: A boon for persons with disabilities | 1 day | State institute for the Mentally challenged | 03.12.2014 | Participants , DDF fund & State institute for the Mentally challenged | National | Students, Professionals |
| 5. | National conference on " Vision 2020" in association with C.H Muhammed Koya State Institute of for the Mentally challenged (SIMC), Trivandrum | 2 days | C.H Muhammed Koya State Institute of for the Mentally challenged (SIMC), Trivandrum | 20.04.2015 to 23.04.2015 | DDF fund | National | Students, Professionals |
| 6. | National conference on "Models of best practices in rehabilitation for the empowerment of persons with disabilities" | 2 days | National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | 16.10.2015 to 17.10.2015 | NIEPMD | National | Students, research Scholars, Professionals |

31. Code of ethics for research followed by the departments :

Plagiarism will be assessed before the submission of dissertation.

32. Student profile programme-wise:

| Name of the programme | % of students from the same University | % of students from outside state | % of students from other countries |
|---------------------------|--|----------------------------------|------------------------------------|
| M.Phil Disability Studies | 78% | 22% | Nil |

33. Diversity of students : M.Phil Disability studies -100%**34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**
NET-01**35. Student progression:**

- Other than campus recruitment 16
- Entrepreneurs 16

36. Diversity of staff :

| | |
|--|-----|
| Percentage of faculty who are graduates | 02 |
| Of the same university | 02 |
| From other universities within the State | 02 |
| From universities from other States | 02 |
| From universities outside the country | NIL |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

- Ph.D- Sunish T.V, Research Associate / Lecturer

38. Present details of departmental infrastructural facilities with regard to

a) Library -Yes.

At present library is functioning at the office itself- Total Books: 219

- b) Internet facilities for staff and students. -Yes
- c) Total number of class rooms -01
- d) Class rooms with ICT facility -01
- e) Students' laboratories -01
- f) Research laboratories -NA



39. List of doctoral, post-doctoral students and Research Associates

- a) From the host institution/university - Nil
- b) From other institutions/universities - Nil

40. Number of post graduate students getting financial assistance from the university.

-NA

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

The centre was established by the Department of Higher education, Govt. of Kerala. A core committee was formed with Dr. K.N. Panicker, Vice Chairman, Kerala State Higher education council as Chairman and Dr. G. N. Karna, School of International Studies, New Delhi and G.C. Reddy, Professor & Dean, School of education and HRD, Dravida University, Sreenivasavanam, Kuppam, Andhra Pradesh as members to study the need and significance of the establishment of the centre.

As per the report of the Core Committee the centre Inter University Centre for Disability Studies was established in 2010. M.Phil disability studies started as full time academic programme.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
Yes, it will used for the updation of curriculum
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
Regular feedback from students
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
Regular feedback from alumni

43. List the distinguished alumni of the department (maximum 10):

| Sl.No | Name of the Alumni | Designation |
|-------|--------------------|---|
| 1 | Preethy K.Kumar | Principal, Jainy College of Special Education , Vitila, Ernakulam |
| 2 | Bobby Mathew | Chief Executive Officer , Ushus Centre for exceptional Children, Hubli, Karnataka |
| 3 | Farasha K.A | Physiotherapist New Dar Al Shifa Hospital Hawally, Kuwait |
| 4 | Deepu C.B | Lecturer, Department of Physiotherapy, SME, Gandhinagar, Kottayam |

| | | |
|---|---------------|--|
| 5 | Annamma J | Chief Nursing Officer St. Gregarious International Cancer Care Centre & Mission Hospital, Parumala P.O, Pathanamthitta |
| 6 | Shiby Mol C.B | Assistant Professor Department of Psychology Little Flower Institute of Social Science and Health, Calicut. |
| 7 | Sasikala L. | Vice principal, KVM College of Special Education , Cherthala |
| 8 | Princy George | Counsellor, Sidhartha Central School, CBSE , Puthoor P.O |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

| Sl. No | Special lectures / workshops / seminar | Resource Persons |
|--------|--|---|
| 1 | Aging and Disability Management | <u>WORKSHOPS</u> 1. Mr. Vijesh P.V, Physiotherapist, Sree Chithira Institute of Medical Sciences, Thiruvananthapuram. 2. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally 3. Mr. Mathew Kanamala, Head of the Department of Social Work, St. Josephs College, Moolamattom. 4. Dr. A.P. Varma, Occupational Health Physician, Adithya Birla Group. |
| 2. | Management of behavioural problem among children | 1. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin. 2. Dr. Roshan Bigly, Director, CRC, Kozhikode 3. Sujith Babu, Clinical Psychologist, Kottayam |
| 3. | Counselling Course | 1. Prof.(Dr.) M.S Razeena Padmam, Hon. Director, IUCDS 2. Dr. C.S Ambika Devi, Co-ordinator, IUCDS 3. Dr. Sunish T.V, Lecturer, IUCDS 4. Ms. Hena N.N, Lecturer, IUCDS |
| 4. | Management of behavioural problems | 1. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally 2. Sujith Babu, Clinical Psychologist, Kottayam 3. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin |
| 5. | Early intervention for childhood disabilities | 1. Dr. Babu George, Child Development centre, Thiruvananthapuram 2. Mr. Vijesh P.V, Physiotherapist, Sree Chithira Institute of Medical Sciences, Thiruvananthapuram 3. Sujith Babu, Clinical Psychologist, Kottayam 4. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally |



| | | |
|----|---|--|
| 6. | Counselling Course | <ol style="list-style-type: none"> 1. Prof.(Dr.) M.S Razeena Padmam, Hon. Director, IUCDS 2. Dr. C.SAmbika Devi , Co-ordinator ,IUCDS 3. Dr. SunishT.V,Lecturer, IUCDS 4. Ms .HenaN.N,Lecturer, IUCDS |
| 7. | Counselling Course | <ol style="list-style-type: none"> 1. Prof.(Dr.) M.S RazeenaPadmam, Hon.Director, IUCDS 2. Dr.C.SAmbika Devi ,Co-ordinator, IUCDS 3. Dr.SunishT.V,Lecturer, IUCDS 4. Ms.HenaN.N,Lecturer, IUCDS |
| 8. | Classroom management and soft skills training | <ol style="list-style-type: none"> 1. Prof.(Dr.) M.S RazeenaPadmam, Hon.Director, IUCDS 2. Dr.C.SAmbika Devi, Co-ordinator, IUCDS 3. Dr.SunishT.V,Lecturer, IUCDS 4. Ms.HenaN.N,Lecturer, IUCDS |
| 9. | Learning disabilities | <ol style="list-style-type: none"> 1. Dr. Babu George, Child Development centre, Thiruvananthapuram 2. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 10 | Research methodology | <ol style="list-style-type: none"> 1. Mr. V.Sriram, Chief Librarian, Centre for Development Studies (CDS), 2. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 11 | Project proposal writing | <ol style="list-style-type: none"> 1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 12 | Training on Learning Disabilities | <ol style="list-style-type: none"> 1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut. 2. Ms. AswathyP.V, Clinical Psychologist, Co-operative Medical College, Cochin. |
| 13 | Counselling Advanced course | <ol style="list-style-type: none"> 1. Ms. AswathyP.V, Clinical Psychologist, Co-operative Medical College, Cochin. 2. Mr. Vinod S.S, Clinical Psychologist, IUCDS, Guest faculty 3. Mamman Joseph C, Asst. Professor Central University Karnataka |
| 14 | Management of behavioural problem among children | <ol style="list-style-type: none"> 1. Mamman Joseph C, Ast. Professor Central University Karnataka. 2. Ms. Priya Varghese, Clinical Psychologist, Pushpagiri Medical College,Thiruvalla 3. VipinChandralal, Clinical Psychologist ,Pushpagiri Medical College ,Thiruvalla 4. Mr. Mathew Kanamala, Head of the Department of Social Work, St. Josephs College, Moolamattom. |
| 15 | Continuous Rehabilitation Education (CRE) programme | <ol style="list-style-type: none"> 1. Resource persons from National Institute for Empowerment of Persons with Multiple Disabilities, Chennai (NIEPMD) |

| | | |
|----|--|---|
| 16 | Certificate course in counselling | <ol style="list-style-type: none"> 1. Mamman Joseph C, Ast. Professor Central University Karnataka 2. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin. |
| 17 | Parenting of children with special needs | <ol style="list-style-type: none"> 1. Ms. Priya Varghese, Clinical Psychologist, Pushpagiri Medical College, Thiruvalla 2. Dr. M.R. Gopalakrishnan, Social worker, counsellor, yoga master and pranic Healer, Gurukulam Training centre, Pampady 3. Adv. Amal Kasha, High court, Ernakulam |
| 18 | Autism spectrum disorder | <ol style="list-style-type: none"> 1. Mrs. Divya Paul, Speech Therapist, Kusumagiri Mental Hospital, Kakkanade 2. Mrs. Anitta Paul, Special educator, Vigyan valley Learning Centre, Ernakulam 3. Sr. Jyothi, Special educator, Kusumagiri Mental Hospital, Kakkanade |
| 19 | Project design and proposal writing | <ol style="list-style-type: none"> 1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 20 | Research Methodology | <ol style="list-style-type: none"> 1. Mr. Ramesh B. Nair, Jt. Director, Statistics and Planning department, Rubber board, Kottayam |
| 21 | Research Methodology | <ol style="list-style-type: none"> 1. Prof.(Dr.) M.S Razeena Padmam, Hon. Director, IUCDS 2. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut 3. Dr. Sandhya E, Associate professor, Prajyithi Nikethan College, Puthukkad, Trissure |
| 22 | Learning Disability | <ol style="list-style-type: none"> 1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 23 | Commemoration of World Zero Discrimination Day | <ol style="list-style-type: none"> 1. Dr. Jasmine, Assistant Professor, Law college, Gandhinagar |
| 24 | World Down Syndrome Day | <ol style="list-style-type: none"> 1. Dr. Suresh Kumar. M, Assistant professor, Clinical Psychology, CRC, Kozhikode. 2. Dr. Sunish T.V, Assistant professor in special education, CRC, Kozhikode. 3. Subeesh Gopi, Performance Coach, Caliber, Kottayam 4. George Babu, Director, Caliber, Kottayam |



SEMINARS

| Sl. No | Special lectures / workshops / seminar | Resource Persons |
|--------|--|---|
| 1. | Management and empowerment of persons with multiple disabilities | Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD |
| 2. | Emerging trends in disability studies management | Dr. M.K Jayaraj ,State Institute for the Mentally Challenged, Trivandrum |
| 4. | National seminar on “Technology: A boon for persons with disabilities | Sri. Sudheer Sakthan, Assistant professor in paediatrics, Medical college hospital, Kottayam |
| 5. | National conference on “Vision 2020” in association with C.H Muhammed Koya State Institute of for the Mentally challenged (SIMC), Trivandrum | 1. Dr. M.K Jayaraj ,State Institute for the Mentally Challenged, Trivandrum 2. Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD 3. Prof.(Dr.) M.S Razeena Padmam, Hon. Director ,IIUCDS |
| 6. | National conference on “Models of best practices in rehabilitation for the empowerment of persons with disabilities” | 1. Dr. Himangshu Das, Director of National Institute for Empowerment of Persons with Multiple Disabilities, Chennai (NIEPMD). 2. Dr. Neeradha Chandramohan, Associate Professor, Department of Clinical Psychology, NIEPMD. 3. Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD 4. Dr. K. BalaBaskar, Lecturer, Department of Adult Independent Living, NIEPMD 5. Rev. Father Thomas Felix, Director of Central Institute on Mental Retardation, Trivandrum, Kerala 6. Ms. GeethaGopi. B.M. R, M. A (Psy), P.G. Diploma in Child Care and Psychology |

45. List the teaching methods adopted by the faculty for different programmes:

Smart classroom teaching using Audio visual aids. Use of ICT, Social media network.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- Concurrent evaluation
- Seminars
- Assignments
- Class tests

47. Highlight the participation of students and faculty in extension activities:

- Students and faculty conduct various awareness programmes on disabilities.
- Students participate in the assessment and intervention process in the early intervention centre, DREAMS.

Students and faculty initiates activities in connection with the commemoration of important days related to disabilities with various programmes such as Seminars, Pamphlet Distribution, Debates and Group Discussions.

- World No Tobacco Day – 31st May
- World Mental Health Day - 10th October
- World Alzheimer's Day – 21st September
- World Geriatric Day – 30th September
- World White Cane Day – 6th October
- World Mental Health Day – 10th October
- World Arthritis Day – 12th October
- World Disability Day – December 3rd

IUCDS showed their concern towards the disabled victims of Endosulfan tragedy.

**48. Give details of “beyond syllabus scholarly activities” of the department:
Social responsibility activities.**

- Students are encouraged to take up activities in the community using their professional knowledge and skills. The activities include – community education on disabilities.
- Student trainings.
- conducting awareness programmes and workshops.
- Need based intervention programmes etc.

**49. State whether the programme/ department is accredited/ graded by other agencies?
If yes, give details:**

The centre is established by the Department of Higher education, Govt. of Kerala.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

Inter University Centre for Disability Studies is a unique centre established to generate new knowledge and conduct research activities. The centre produced more than 18 dissertations as part of the curriculum. The dissertations are aimed to develop new knowledge and apply the same for persons with disabilities. The details of the contributions are given below.



| Sl. No | Name | Name of the Contributors |
|--------|--|---|
| 1. | Effectiveness of Video Assisted Reminiscence Therapy on Subjective Well-Being of the Institutionalized Elderly | Sanish A.Thomas, M.Phil 2014 -15 student, IUCDS Ms.Hena N.N, Lecturer, IUCDS |
| 2. | Parental Awareness and Effectiveness of Parent – Focused Multi-Sensory Training on Management of Children with ADHD | Sasikala L. M..Phil 2015 -16 student, IUCDS Dr.P.TBaburaj, Hon.Director, IUCDS Ms. Bilgy K. George, Lecturer, IUCDS Ms.Hena N.N, Lecturer, IUCDS |
| 3. | Effectiveness of Attention Improving Multimedia package on selective Attention of Children with ADHD | Princy George., M..Phil 2015 -16 student, IUCDS Dr.P.TBaburaj, Hon.Director, IUCDS Ms.Hena N.N, Lecturer, IUCDS Ms. Bilgy K. George, Lecturer, IUCDS |
| 4. | Effectiveness of Video Assisted Orientation Programme on Awareness about Childhood Disabilities and related Stress among Mothers of Toddlers | Mitzy Maria J, M..Phil 2015 -16 student, IUCDS Dr.P.TBaburaj, Hon.Director, IUCDS Ms.Hena N.N, Lecturer, IUCDS Ms. Bilgy K. George, Lecturer, IUCDS |

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths:

- **Unique Centre**

Inter University Centre for Disability Studies is one of its kinds in India established in 2010 with a noble vision to ensure inclusion and complete participation of Persons with Disabilities. The centre has involvement and active participation of academicians, Rehabilitation professionals, medical professionals, scholars from different fields who contributes to the field of disability and rehabilitation of persons with disabilities in a trans disciplinary approach. The centre promotes transdisciplinary research and extension activities. IUCDS conducts M.Phil programme in disability studies for students from various disciplines. Besides, the centre conducts short term training programmes, workshops, seminars, conferences and certificate programmes.

- **Inter disciplinary team of professionals**

IUCDS has Inter disciplinary team of professionals from various fields. The centre has academicians, Rehabilitation professionals viz, speech therapist, physiotherapist and clinical psychologist. The centre has a team of volunteers who are experts from various fields.

- **Disability related services under one roof**

IUCDS provide various services for persons with disabilities under one roof. The centre has an extension centre names Disability Rehabilitation Early Assessment and Management Services (DREAMS) which has the following services.

- Physiotherapy

- Audiological assessment and speech therapy unit
- Remedial coaching
- Counselling services
- Psychological assessment.
- **Academic, Research training and extension activities**
IUCDS provide various academic programmes. IUCDS offers fulltime M.Phil programme in disability studies and various short term training programmes, workshops, seminars and conferences.
Students of IUCDS conducts research as part of their curriculum promote transdisciplinary research to support persons with disability

Weaknesses

- Registration as per RCI Act, 1992
Since IUCDS was conceived as a place where professionals from various discipline involved, the centre has its objectives to promote transdisciplinary research activities. The centre may fail to fit in to the existing policies as per the guidelines of RCI, act, 1992 which emphasises the accreditation by Rehabilitation Council of India. The centre needs to initiate activities to consider it as a special case and avail RCI accreditation for its complete functioning.
- Lack of adequate space to function
- Staff turn over
- Insufficient fund

Opportunities

- As the centre envisages inter disciplinary / multidisciplinary/ trans disciplinary research and academic activities, there are ample opportunities for interactions/collaborations with various institutions within India and abroad.
- Students from other disciplines can be attracted for studies in Interdisciplinary dimensions.
- Excellent opportunities for students for placement.
- The centre has potential to provide extension activities in the area of disability rehabilitation across the nation.
- Extension of outreach programmes for the differently abled.

Challenges

- Income generation to ensure sustainability of the centre.
- Implementation of the norms in the Government regulations for enriching the activities of the centre to fulfill its objective of inclusion and complete participation of persons with disabilities.



- Establish additional facilities and infrastructure for better provision of services to the persons with disabilities.
- Create capacity building programmes for students and staff of the centre to empower them in participating rehabilitation activities and research.
- Creating opportunities for students to be in the part of the rehabilitation programmes.

52. Future plans of the department.

- **Extension and expansion of DREAMS:** DREAMS started its functioning with the objective of providing early identification and intervention services to all types of disabilities under one roof. To fulfill this, the centre needs the following units to cater the services to the neediest.
 - Extension of the services of DREAMS to various districts in Kerala.
 - Ophthalmology Unit
 - Occupational therapy unit
 - Vocational Rehabilitation Centre
 - Placement Cell
 - Counseling Centre for the caregivers of PWD.
- **Information center and Data-bank:** IUCDS is planning to start an information centre for disseminating information regarding various aspects of disability, rehabilitation services to parents, caregivers and professionals. IUCDS is also planning to form a databank of disability rehabilitation services.
- **To develop Assessment tools and Equipment:** The centre proposed a plan to develop quality assessment tools and equipment for the proper identification of various disabilities.
- **Interdisciplinary study center**

IUCDS is keen on starting an interdisciplinary study centre to promote interdisciplinary studies and to develop quality professionals in the field of disability studies. The centre has plans to conduct the following;

 - Student Exchange Programmes
 - Faculty Exchange Programmes
- **Formation of Self Help Groups in different districts:** The centre proposes to form self-help groups of parents/caregivers.
- **Formation of Team of Volunteers in the name “FRIENDS OF IUCDS”:** To pool the services of experts and well-wishers of IUCDS, the centre is planning to form a team of volunteers in the name “Friends of IUCDS”.



INTER UNIVERSITY INSTRUMENTATION CENTRE (IUIIC)

| | | | |
|----|--|---|--|
| 1. | Name of the Department | : | Inter University Instrumentation Centre (IUIIC) |
| 2. | Year of establishment | : | 2011 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Faculty of Science & Faculty of Applied Science and Technology |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph. D. |
| 5. | Interdisciplinary programmes and departments involved | : | Interdisciplinary Scientific Research from Chemistry, Physics, Biology, Environmental Science and Nanoscience. |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | Not Applicable |
| 9. | Participation of the department in the courses offered by other departments | : | Nil |



| | | | | | | |
|---|---|---|---|------------|--------|-----------------------------|
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | - | - | - |
| | | | Associate Professors | - | - | - |
| | | | Asst. Professors | - | - | - |
| | | | Others | - | - | - |
| | | | The following are the regular faculty members involved in the Centre. | | | |
| 1. Prof. C. T. Aravindakumar (School of Environmental Sciences) (Hon. Director) | | | | | | |
| 2. Dr. Prakashkumar B. (School of Biosciences) (Joint Director) | | | | | | |
| 3. Prof. Sabu Thomas (Polymer Technology) | | | | | | |
| 4. Prof. N. V. Unnikrishnan (Pure and Applied Physics) | | | | | | |
| 5. Prof. G. Sudarshanakumar (Pure and applied Physics) | | | | | | |
| 6. Dr. Jayachandran K. (Biosciences) | | | | | | |
| 7. Dr. E.V. Ramasamy (Environmental Sciences) | | | | | | |
| 8. Dr. Nandakumar Kalarikkal (Nanotechnology) | | | | | | |
| 9. Dr. Anilkumar G. (Organic Chemistry) | | | | | | |
| 10. Dr. Radhakrishnan E. K. (Microbiology) | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years* |
|---------------------------|---------------|---------------------|---------------------------------------|----------------------------|---|
| Prof. C. T. Aravindakumar | Ph. D. | Professor | Physical Organic Chemistry | 23 | 2 Ph. D. Students Currently working |
| Dr. Prakashkumar B. | Ph. D. | Associate Professor | Biochemistry | 16 | |
| Prof. Sabu Thomas | Ph. D. | Professor | Polymer Chemistry | 30 | |
| Prof. N. V. Unnikrishnan | Ph. D. | Professor | Material Science, Solid State Physics | 30 | |



| | | | | | |
|---------------------------|--------|---------------------|-----------------------------|----|--|
| Prof. G. Sudarshanakumar | Ph. D. | Professor | Physics | 22 | |
| Dr. Jayachandran K. | Ph. D. | Associate Professor | Biosciences | 18 | |
| Dr. E.V. Ramasamy | Ph. D. | Professor | Environmental Biotechnology | 16 | |
| Dr. Nandakumar Kalarikkal | Ph. D. | Associate Professor | Nano technology | 21 | |
| Dr. Anilkumar G. | Ph. D. | Associate Professor | Synthetic Chemistry | 10 | |
| Dr. Radhakrishnan E. K. | Ph. D. | Assistant Professor | Biosciences | 6 | |

*These faculty members have their own Ph. D. students at the respective departments, but utilizing the facilities in the Centre.

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Visiting Scientist

1. Dr. K. P. Madhusudanan (Former Head, SAIF, CDRI, Lucknow)

| Other distinguished Scientists Visited the Centre for the last 4 years | | |
|--|-----------------------------|---|
| 1. | Prof. Renato Falcao Dantas | University of Campinas – UNICAMP, Brazil |
| 2. | Dr. Despo Fatta Kassinos | Department of Civil and Environmental Engineering, Nireas International Water Research Center, University of Cyprus, Nicosia-Cyprus |
| 3. | Dr. Urška Lavrenčič Štangar | University of Nova Gorica, Nova Gorica, Slovenia |
| 4. | Prof. Yoram Oran | Department of Desalination and Water Treatment, Zuckerberg Institute for Water Research, Blaustein Institutes for Desert research, Ben-Gurion University of the Negev, Israel |
| 5. | Dr. S. Prabhakar | National Center for Mass Spectrometry, CSIR-IICT, Hyderabad |
| 6. | Dr. Murali Chilakapati | Advanced Center for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Mumbai |
| 7. | Dr. M. Vairamani | SRM University, Tamil Nadu |
| 8. | Dr. R. Srinivas | National Center for Mass Spectrometry, CSIR-IICT, Hyderabad |
| 9. | Prof. Athula Attygalle | Stevens Institute of Technology, USA |
| 10. | Dr. Marc J-F Suter | Eawag, Switzerland |
| 11. | Dr. Laurent Debrauwer | Université de Toulouse, France |
| 12. | Prof. Olivier Laprevote | Paris Descartes University, France |



13. Percentage of classes taken by temporary faculty – programme-wise information:
Not Applicable

14. Programme-wise Student Teacher Ratio: Not Applicable

15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual): Temporary Staff: 2

16. Research thrust areas as recognized by major funding agencies:

- Water pollution monitoring
- Air pollution monitoring
- Advanced oxidation processes
- Environmental and biological application of mass spectrometry
- Nanoscience and nanotechnology
- Membrane science and technology
- Phytochemistry & Natural Product Research
- Bioremediation
- Environmental biotechnology
- X-ray crystallography

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

Nil

18. Inter-institutional collaborative projects and associated grants received:

a. National collaboration

- National Centre of Free Radical Research, Pune
- National Center for Ultrafast Processes, Chennai
- Bhabha Atomic Research Centre, Mumbai

b. International collaboration

- California Institute of Technology, USA
- University of Paris East Marne-la-valee, France
- Pohang University of Science and Technology, Korea

The above are collaborative programmes where financial support is being extended from the respective institutions, but not as specific funding.



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

- DST (SAIF) Rs. 6.5 crores, (sanctioned); Rs. 2 Crores (Received)

20. Research facility / centre with

- State recognition
- National recognition
- International recognition

No recognition yet; but planning to apply for National recognition

21. Special research laboratories sponsored by / created by industry or corporate Bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 307 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 100 |
| 4. | Chapters in Books | 3 |
| 5. | Edited Books | 13 |
| 6. | Books authored with ISBN | 8 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 431 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average : 1-7
- h-index : 20 (Prof. C. T. Aravindakumar)
21 (Dr. G. Anilkumar)
78 (Prof. Sabu Thomas),
11 (Dr. Nandakumar Kalarikkal)
14 (Dr. E.V. Ramasamy)



23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated :

The Center provides advanced analytical instrumental facility which is accessible to the academic/research community in the country. The beneficiaries include the various research organizations, state/central universities and colleges. The Center generates income from the analysis (LC-Q-ToF-MS, FTIR, HPLC, UV-visible spectrophotometer).

| Sl. No | Year | Income (₹) in Lakhs |
|--------|-------|---------------------|
| 1 | 2013 | 0.22 |
| 2 | 2014 | 1.24 |
| 3 | 2015 | 2.33 |
| 4 | 2016 | 1.67 |
| | Total | 5.46 |

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory/ Research area |
|---------|------------------------|---|
| 1 | Dr. C.T. Aravindakumar | (1) University of Paris (S) / Pulse radiolysis, 2011 &, 2012 (2) Norwegian University of Science and Technology, Trondheim, Norway / Membrane Science, 2012 (3) University of Paris (East, MIV) 2013 & 2015 / Advanced oxidation Process (4) Technical University of Denmark, Denmark 2015 / Membrane science (5) Hanoi University of Science & Technology, Vietnam, 2013/ Water purification technology (6) King Mongkut's University of Technology Thonburi, Thailand, .2012 / Water purification (7) University of Copenhagen 2015 / Mass spectrometry |

**26. Faculty serving in:****a. National committees**

| Sl.No | Name of the faculty | Committee |
|-------|--------------------------|--|
| 1 | Dr. C.T. Aravindakumar | Expert Panel of the <i>Water Technology Initiative (WTI)</i> of the Department of Science & Technology, Govt. of India-2015-2019 |
| | | Antarctic Selection Committee – 2016 |
| | | Arctic selection committee - 2015 |
| | | Group leader in Environmental Science, Polar science policy deduction for Ministry of Earth Science, 2016 |
| | | Member and Secretary: Society of Environmental Chemistry and Allied Sciences |
| | | Member: Indian Society of Radiation and Photochemical Sciences |
| 2 | Prof. N. V. Unnikrishnan | Indian Laser Association (Life member) |
| | | Resource group (Shashtra poshini) |
| 3 | Prof. Sabu Thomas | Member of Indian Membrane Society |
| | | Member of Polymer Society of India |
| | | Member of Society of Disordered Materials |
| | | Member of Society of Polymer Technologists, University of Cochin |
| | | Member of Mahatma Gandhi University Chemical Society |
| 4 | Prof. G. Sudarshanakumar | Life Member of Indian Crystallographic Association (2005-) |

b. International committees

| Sl. No. | Name of the faculty | Committee |
|---------|--------------------------|---|
| 1 | Dr. C.T. Aravindakumar | Oslo Governance Forum (UNDP 2012), Norway |
| 2 | Prof. N. V. Unnikrishnan | American chemical society- St.Columbus, USA |
| 3 | Prof. Sabu Thomas | (1)Member of American Chemical Society (Rubber Division), (2) Fellow of New York Academy of Sciences, USA |
| 4 | Prof. G. Sudarshanakumar | Member of the American Chemical Society, USA (2016-) |
| | | Member of the American Crystallographic Association, USA (1998-2001) |
| | | Member of the Institute of Physics, USA (1998-2001) |



c. Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|-------------------------|--|
| 1 | Dr. C.T. Aravindakumar | International Journal of Chemistry (ISSN: 2249-2119) |
| 2. | Dr. Radhakrishnan E. K. | Journal of Food & Industrial Microbiology International Journal of Advanced Research and Review |
| 3. | Prof. Sabu Thomas | <ul style="list-style-type: none"> • SM Journal of Nanotechnology and Nanomedicine • Nano Advances • Materials Science and Engineering (Editorial Key Reviewers Committee) • International Journal of Advances In Engineering Research • World Journal of Biotechnology • Journal of Emerging Materials Technology • Associate Editor, Bulletin of Materials Science • Regional Editor of the journal "Current Smart Materials". • Editor in-Chief of Editorial Board-International Journal of Science World (IJSW) |

d. Any other

| Sl. No. | Name of the faculty | Committee |
|---------|--------------------------|---|
| 1 | Dr. C.T. Aravindakumar | Governing Council and Executive Committee of Institute of Climate Change, Govt of Kerala High power committee, SAIF, Cusat-Cochin Member Board of Studies- Department of Environmental Studies, CUSAT, Kochi |
| 2 | Dr. E.V. Ramasamy | Member, Technical Committee, Suchithwa Mission, Government of Kerala |
| 3 | Dr. Radhakrishnan E. K. | Board of studies for Microbiology, Kerala University Board of studies for Microbiology, SB College, Changanassery |
| 4 | Prof. N. V. Unnikrishnan | High power committee, SAIF, Cusat-Cochin |
| 5 | Prof. G. Sudarshanakumar | Member, Board of Studies – Physics, C.M.S.College, Kottayam Member Board of Studies- Department of Physics, CUSAT, Kochi. Member Board of Studies- Department of Instrumentation, CUSAT, Kochi. Chairman, BOS 2014(MSc, MPhil), SPAP, M. G. University, Kottayam Member Board of Studies- Subject Expert, S.B.College, Changanassery. |



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): Nil

28. Student projects:

- Percentage of students who have done in-house projects including interdepartmental projects: NA
- Percentage of students doing projects in collaboration with other universities / industry / institute: NA

29. Awards / recognitions received at the national and international level by

- **Faculty**

| A | Research awards received by the faculty |
|-----------------------|---|
| Dr.C.T. Aravindakumar | <ul style="list-style-type: none"> • Invited member of the Oslo Governance Forum (OGF), Oslo (UNDP) 2011 • Visiting Professor (with full Professor status) at the University of Paris-East (Department of Geology and Environment) 2013 • Visiting Professor at the University of Paris-East with full professor status, 2015 • Team Leader in Environmental Science to formulate the research policy of the Ministry of Earth Science in India's Polar Research (Arctic/Antarctic/Southern Ocean/Himalaya) for the next 10 years. The Brainstorming Meeting on Polar Sciences and Global Water Cycle was held at the National Center for Antarctic and Ocean Research (NCAOR), Goa during April 13-14, 2016. • Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies-2014 • Expert for identifying research proposals for the India's 36th Antarctic Expedition 2016. The workshop was held during June 9-10, 2016 • Expert Panel of the Water Technology Initiative (WTI) of the Department of Science & Technology, Govt. of India 2015 |
| Dr.E. V. Ramasamy | <ul style="list-style-type: none"> • Member of the State Waste Management Policy Committee by the Local Self Government Department, Govt. of Kerala (November 14, 2012) • Member of the Special Board of Studies in Pollution Control and Environmental Engineering of Pondicherry University (October 26, 2012) |



| | |
|---------------------------|---|
| | <ul style="list-style-type: none"> • Member of the State Waste Management Policy Committee by the Local Self Government Department, Govt. of Kerala , attended several meetings of the committee during 2014-15 • Member of the Technical Committee of Suchitwa Mission , Local Self Government Department, Govt. of Kerala , attended several meetings of the committee during 2014-15 • Participation in the selection committee meeting of the CWRDM (Centre for Water Resources Development and Management), Kozhikode as a subject expert in the interview board for the selection of Scientist-B during July 02- 03, 2015. • Participation as the member of Board of Studies for the the B. Voc. Programme on Environmental Assessment and Remediation on Monday the 14th September, 2015, at Virudhunagar Hindu Nadars'; Senthikumara Nadar College, (Autonomous), Virudhunagar, Tamil Nadu. • Participation in the Technical Committee meeting for evaluating the technical presentations of the organisations who have short listed for New Technologies on 28.11.2015 at 10.30 A.M onwards at the Office of State Institute of Health and Family Welfare, Thycaud, Thiruvananthapuram, organised by Suchitwa Mission, Local Self Governance Department (LSGD), Govt. of Kerala |
| Dr. E. K Radhakrishnan | <ul style="list-style-type: none"> • Honoured presentation of “Bharat Gaurav Award” by India International Friendship Society, May 2016. |
| Prof. Sabu Thomas | <ul style="list-style-type: none"> • Distinguished Professorship Award, Josef Stefan Institute, Slovenia, 2010 • Fellow of the Royal Society of Chemistry, London, FRSC, 2012 • Awarded Bronze Medal of Chemical Research Society (CRSI) of India, 2013 • Awarded Materials Research Society of India Award (MRSI), 2013 • Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014, • Awarded Doctorat Honoris causa-LIMATB, University of South Brittany, France 2015 |
| Dr. Nandakumar Kalarikkal | <ul style="list-style-type: none"> • Visiting Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India • Visiting Professor, Gulbarga University, Gulbarga, Karnataka under SAP scheme of UGC • Visiting Professor, Alemaya University & Mekkele University, Ethiopia |



| | |
|----------------------------------|---|
| | <ul style="list-style-type: none"> Conference Fellowship Award of the Seventh International Conference on Phonon Scattering in Condensed Matter held at Cornell University, USA |
| B | Research awards received by the students |
| Doctoral / Post-doctoral fellows | <ul style="list-style-type: none"> Jisha C, Muneer Muhammed, U. K. Aravind and C. T. Aravindakumar, Transport studies of lysine through CHI/PSS multilayers, Proceeding of the International conference on Nano -biomaterials, Kottayam, 2014 (best paper) |

30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any:

| Sl. No. | Name of the conference/workshop | Funding agency | Details of outstanding participants |
|---------|---|----------------|---|
| 1. | National Workshop on Frontiers of Spectroscopy and Microscopy, Sept 10-12, 2012 | DST-PURSE | <ul style="list-style-type: none"> Prof. K.V.Ramanathan, IISc, Bangalore (NMR Spectroscopy) Dr. Venkat Manohar, IICMS, Chennai (MS- Proteomics) Dr. Unnikrishnan Warriar C. CWRDM, Calicut (Isotopes ratio - MS) Prof. P.M.G. Nambissan, SINP, Kolkata (Positron Annihilation) |
| 2. | National Seminar on "Uptrends in Chemical Sciences and Technology"- 2013 March 15-16, 2013 | UGC | <ol style="list-style-type: none"> Dr. T. Pradeep, IIT Chennai Prof. A. Ajayaghosh, CSIR- O Scientist & Dean, Academy of Scientific And Innovative Research, Niist, Trivandrum Prof. Santhanu Bhattacharya, IISc, Bangalore Prof. A.K. Mishra, IIT Chennai Dr. Y.S. Mayya, BARC, Mumbai |
| 3. | National Workshop on Mass Spectrometry Sept. 5-6, 2013 | DST | <ol style="list-style-type: none"> Dr. M. Vairamani, SRM University Dr. Nagarjuna Nagaraj, Max-Planck-Institut für Biochemie, Germany Dr. K. P. Madhusudanan, Visiting Scientist, IUIC Dr. Gopal Vaidyanathan, Waters India Pvt. Ltd. Dr. Jitendra Kelkar, Shimadzu |



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|----|--|---|---|
| | | | <p>Analytical (India) Pvt. Ltd.</p> <p>6. Dr. Ajit Datar, Shimadzu Analytical (India) Pvt. Ltd.</p> <p>7. Mr. K. Mohan, Spinco Biotech Pvt Ltd.</p> <p>8. Mr. Vivek Dhyani, Agilent Technologies</p> |
| 4. | <p>International Conference on Mass Spectrometry, ICMS-2013</p> <p>Sept. 6-9, 2013</p> | <p>KSCSTE, BRNS, CSIR, M. G. University</p> | <p>1. Dr. Olivier Laprevote, Paris Descartes University, France</p> <p>2. Dr. Mahesh J. Kulkarni, National Chemical Laboratory, Pune, India</p> <p>3. Prof. Kentaro Yamaguchi, Tokushima Bunri University, Japan</p> <p>4. Dr. Venkateswarlu Panchagnula, National Chemical Laboratory, Pune</p> <p>5. Dr. R. Srinivas, National Center for Mass Spectrometry, India</p> <p>6. Dr. S. K. Gupta, Bhabha Atomic Research Centre, Mumbai, India</p> <p>7. Dr. Nagarjuna Nagaraj, Max-Planck-Institut für Biochemie, Germany</p> |
| 5. | <p>National Colloquium on Mass Spectrometry, Chemical, Biological and Environmental applications</p> <p>Aug. 29-31, 2014</p> | <p>KSCSTE</p> | <p>1. Dr. K. P. Madhusudanan, Visiting Scientist, IUIC, MGU</p> <p>2. Dr. S.K. Raza, Institute of Pesticide Formulation Technology, Gurgaon</p> <p>3. Dr. M.V. Jagannadham, CSIR-CCMB, Hyderabad</p> <p>4. Dr. Abdul Jaleel K. A., RGCB, TVM),</p> <p>5. Dr. Thomas Biju Mathew, College of Agriculture, Vellayani, Thiruvananthapuram</p> <p>6. Dr. Prabhakar Sripadi, Indian Institute of Chemical Technology, Hyderabad</p> <p>7. Prof. Ramaswamy Babu Rajendran, Bharathidasan University, Tiruchirappalli</p> |
| 6. | <p>International Conference on Advanced Oxidation Processes, AOP- 2014</p> <p>Sept. 25-28, 2014</p> | <p>DST, KSCSTE, BRNS, ISRO</p> | <p>1. Dr. Michael R. Hoffmann, California Institute of Technology, USA</p> |



| | | | |
|----|--|-----|---|
| | | | <ol style="list-style-type: none"> 2. Prof. Mehmet A. Oturan, Universite Paris-Est, Marne-la-Vallee, France 3. Dr. Collin G. Joseph, Universiti Malaysia Sabah, MALAYSIA 4. Prof. D. Fatta-Kassinis, School of Engineering, University of Cyprus, Cyprus\ 5. Prof. Minjoong Yoon, Chungnam National University, Daejeon, South Korea 6. Dr. Renato Falcao Dantas, University of Campinas – UNICAMP, Paschoal Marmo, Limeira SP, Brazil 7. Dr. Christophe Colbeau-Justin, CNRS - Universite Paris-SudOrsay – France 8. Dr. Urška Lavrenčič Štanger, University of Nova Gorica , Nova Gorica, Slovenia 9. Dr. Randolph P. Thummel, University of Houston, USA 10. Dr. Vincent Goetz, Rambla de la Thermodynamique, Perpignan, France 11. Dr. Isabel Oller Alberola, Plataforma Solar de Almería- CIEMAT, Spain 12. Dr. Indira Priyadarshini, BARC, Mumbai |
| 7. | International Conference on Water, ICW-2015 Jan. 23-26, 2015 | DST | <ol style="list-style-type: none"> 1. Prof. Mark R. Weisner, Duke University, USA. 2. Prof. Yoram Oren, Zukerberg Institute for Water Research, Israel. 3. Dr. Anne M. Hansen, Mexican Institute of Water Technology, Mexico. 4. Dr. Martina Zelenakova, Technical University of Kosice, Slovakia. 5. Prof. Matthews Theo F. A. Goosen, Alfaisal University, Saudi Arabia. 6. Dr. Dayanthi Nugegoda, RMIT University, Australia. |



| | | | |
|-----|---|------------------|--|
| | | | <p>7. Dr. Tasuma Suzuki, Yamaguchi University, Japan.</p> <p>8. Dr. A. H. Essadki, Hassan II University, Morocco.</p> |
| 8. | National Workshop on Mass Spectrometry and Raman Microscopy, NWMR-2015 March 27-28, 2015 | M.G. University | <p>1. Dr. S. Prabhakar, Senior Scientist, IICT, Hyderabad</p> <p>2. Mr. Arghya Acharjee, Senior Application specialist, Waters India Pvt. Ltd.</p> <p>3. Dr. Murali Chilakapati, Advanced Center for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Mumbai</p> <p>4. Mr. Hitesh Mamgain, Application Scientist, Toshniwal Bros (SR) Pvt. Ltd.</p> |
| 9. | Third International Conference on Membranes, ICM-2015 Aug. 21-24, 2015 | DRDO | <p>1. Prof. Y. Oren, Zuckerberg Institute for Water Research, Israel</p> <p>2. Prof. Vladimir Teplyakov, Russian Academy of Sciences, Russia</p> <p>3. Prof. Andreas Kaiser, Technical University of Denmark, Denmark</p> <p>4. Dr. Thomas Luxbacher, Anton Paar GmbH, Austria</p> <p>5. Dr. Nobuo Hara, AIST, Japan</p> <p>6. Dr. Mikihiro Nomura, Shibaura Institute of Technology, Japan</p> <p>7. Dr. Sébastien Balme, Institut Européen des Membranes, France</p> <p>8. Dr. Sylvie Condom, Institut Européen des Membranes de Montpellier, France</p> <p>9. Dr. G. Golemme, University of Calabria, Italy</p> <p>10. Dr. Joëlle Bassil, Université de Lorraine, France</p> <p>11. Dr. Hassini Nouredine, University of Oran, Algeria</p> |
| 10. | National Workshop on Mass Spectrometry (NWMS-2015), Dec. 10-11, 2015 | M. G. University | <p>1. Dr. M. Vairamani, SRM University, Chennai</p> <p>2. Dr. K. Madhusudan, IUIC, M. G. University</p> <p>3. Dr. R. Srinivas, National Center for Mass Spectrometry, CSIR-IICT, Hyderabad</p> |



| | | | |
|-----|--|-------------------------|---|
| | | | 4. Prof. Athula Attygalle , Stevens Institute of Technology, USA. |
| 11. | International Conference on Mass Spectrometry, ICMS-2015 Dec. 11-14, 2015 | DST, KSCSTE, DRDO | 1. Dr. Marc J-F Suter , Eawag, Switzerland 2. Prof. Athula Attygalle , Stevens Institute of Technology, USA 3. Dr. R. Srinivas , National Center for Mass Spectrometry, India 4. Dr. Keshava Prasad , Institute of Bioinformatics, India 5. Prof. Olivier Laprevote , Paris Descartes University, France 6. Prof. Evgeny Nikolaev , The Institute for Energy Problems of Chemical Physics Russian Academy of Sciences, Russia 7. Dr. Suman S. Thakur , Centre for Cellular & Molecular Biology, Hyderabad 8. Dr. Laurent Debrauwer , Université de Toulouse, France 9. Dr. M. Joseph , Indira Gandhi Centre for Atomic Research, Kalpakkam 10. Dr. Pierangela Palma , Università di Urbino, Italy 11. Dr. Achilles Cappiello , Università di Urbino, Italy 12. Prof. Michael W. Linscheid , Humboldt-Universitaet zu Berlin, Germany |

31. Code of ethics for research followed by the departments:

(1) Plagiarism will be assessed before thesis submission (2) The guidelines of the ethical committee of the University are being strictly followed (e.g. Animal Ethical Committee for all kind of research related to living organisms)

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|---|----------|--------|-----------------|---------------|
| | | Male | Female | Male | Female |
| Ph.D. | Direct entry after clearing JRF and MPhil | -- | 2 | -- | Not completed |



33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| --- | -- | 100 | --- | --- |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

Nil

35. Student progression : Not applicable

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | Nil |
| from other universities within the State | 50% |
| from universities from other States | 50% |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

- Library : 70 books
- Internet facilities for staff and students: Complete
- Total number of class rooms: Nil
- Class rooms with ICT facility: Nil
- Students' laboratories : 5
- Research laboratories: 5

39. List of doctoral, post-doctoral students and Research Associates:

- from the host institution/university: Dr. Baburaj M. S. (2010-2015), Dr. Krishnaraj K.U. (2012-2015) (Post-doctoral)
- from other institutions/universities: Jisha C., Reena P. S. (Doctoral Students), Dr. Jinu John (2012-2015) (Post-doctoral)

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. All new programmes were started after having a thorough feedback from all stakeholders

**42. Does the department obtain feedback from**

- i. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback: Not applicable
- ii. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback: Not applicable
- iii. Alumni and employers on the programmes offered and how does the department utilize the feedback: Not applicable

43. List the distinguished alumni of the department (maximum 10): Nil**44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:**

There are periodic workshops and training programmes organized by this centre.
Special lectures from many visiting scholars from India and abroad were organized.

| Sl. No. | Name of the conference/workshop | Details of External Experts |
|---------|--|--|
| 1 | Short term training programme in analytical instrumentation, May 13-15, 2013 (HPLC, GC, FT-IR, IC) | In house faculty members |
| 2 | National Workshop on Mass Spectrometry, Sept. 5-6, 2013 | <ol style="list-style-type: none"> 1. Dr. M. Vairamani, SRM University 2. Dr. Nagarjuna Nagaraj, Max-Planck-Institut für Biochemie, Germany 3. Dr. K. P. Madhusudanan, Visiting Scientist, IUIIC 4. Dr. Gopal Vaidyanathan, Waters India Pvt. Ltd. 5. Dr. Jitendra Kelkar, Shimadzu Analytical (India) Pvt. Ltd. 6. Dr. Ajit Datar, Shimadzu Analytical (India) Pvt. Ltd. 7. Mr. K. Mohan, Spinco Biotech Pvt Ltd. 8. Mr. Vivek Dhyani, Agilent Technologies |
| 3 | National Seminar on Recent Advances in Photochemistry, Dec. 5-6, 2013 | In collaboration with St-Michaels college, chertala |
| 4 | National Seminar on "Uptrends in Chemical Sciences and Technology", March 15-16, 2014 | <ol style="list-style-type: none"> 1. Dr. T. Pradeep, IIT Chennai 2. Prof. A. Ajayaghosh, CSIR- O Scientist & Dean, Academy of Scientific And Innovative Research, Niist, Trivandrum |



| | | |
|---|---|---|
| | | 3. Prof. Santhanu Bhattacharya , IISc, Bangalore 4. Prof. A.K. Mishra , IIT Chennai 5. Dr. Y.S. Mayya , BARC, Mumbai |
| 5 | National Colloquium on Mass Spectrometry, Chemical, Biological and Environmental applications, Aug. 29-31, 2014 | 1. Dr. K. P. Madhusudanan , Visiting Scientist, IUIIC, MGU 2. Dr S.K. Raza , Institute of Pesticide Formulation Technology, Gurgaon 3. Dr. M.V. Jagannadham , CSIR-CCMB, Hyderabad 4. Dr. Abdul Jaleel K. A. , RGCB, TVM), 5. Dr. Thomas Biju Mathew , College of Agriculture, Vellayani, Thiruvananthapuram 6. Dr. Prabhakar Sripadi , Indian Institute of Chemical Technology, Hyderabad 7. Prof. Ramaswamy Babu Rajendran , Bharathidasan University, Tiruchirappalli |
| 6 | National Workshop on Mass Spectrometry and Raman Microscopy (NWMR), March 27-28, 2015 | 1. Dr. S. Prabhakar , Senior Scientist, IICT, Hyderabad 2. Mr. Arghya Acharjee , Senior Application specialist, Waters India Pvt. Ltd. 3. Dr. Murali Chilakapati , Advanced Center for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Mumbai 4. Mr. Hitesh Mamgain , Application Scientist, Toshniwal Bros (SR) Pvt. Ltd. |
| 7 | National Workshop on Mass Spectrometry, Dec. 10-11, 2015 | 1. Dr. M. Vairamani , SRM University, Chennai 2. Dr. K. Madhusudanan , IUIIC, M. G. University 3. Dr. R. Srinivas , National Center for Mass Spectrometry, CSIR-IICT, Hyderabad 4. Prof. Athula Attygalle , Stevens Institute of Technology, USA |



45. List the teaching methods adopted by the faculty for different programmes: Only Ph. D. programme.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

There are two mandates for the Centre (1) Advanced Level Research (2) Facility provider (sophisticated analytical equipment). There is a faculty council comprises of faculty members from all the disciplines. This faculty council regularly assesses the progress of the centre. In addition, there is an Executive Committee constituted by the University which oversees the entire functioning of the centre.

47. Highlight the participation of students and faculty in extension activities:

Consultancy service in chemical analysis. The analytical facility of the centre is being utilised by many research centres in the country on payment basis. The following are the number of users of this facility in the past

- | | |
|-------------------------------------|-------|
| a. From Schools of M. G. University | : 146 |
| b. From State/Central Universities | : 93 |
| c. From NIT/IIT/IISER | : 27 |
| d. From Research Centres | : 54 |
| e. From Industry | : 1 |

48. Give details of “beyond syllabus scholarly activities” of the department:

Conduct of international conferences, workshops and short term training programmes.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

A number of research groups produced excellent publications utilizing the facilities of the Centre in very reputed journals. These publications are of both basic and applied in nature.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

- State of the art facilities for advanced level research,
- Interdisciplinary nature of research,
- Involvement of researchers from all the Universities in the state,
- Support from both State Government and University,
- Excellent research output within a short span of 4 years

Weakness:

- Lack of sufficient manpower,



- New UGC rule restricts intake of Ph.D students.
- Lack of enough space.
- Lack of enough publicity on the availability of instruments and service despite efforts through cyber publicity.
- Lack of permanent faculties restricts applications to many Departmental Projects (eg. FIST (DST), SARD (KSCSTE) etc.

Opportunities:

- Research in major inter disciplinary areas of science,
- Access to utilize the entire facilities of the centre by any researcher in the state,
- Man power training in advanced instrumentation,
- Possibility for young researchers to interact with experts from within and outside India,
- Facility for short term projects for post graduate students

Challenges:

- Strengthening the consultancy service with insufficient man power, particularly technical man power,
- Supply of continuous (24 hr) electricity to some of the major equipment against power failure, more involvement of faculties from research centres in affiliated colleges.
- Up keeping the instruments in full working condition
- Collection of data on users acknowledgements in publications

52. Future plans of the department:

- Resetting the centre in the new “Convergence Academy Complex”.
- Centre of Excellence in Mass Spectrometry and Material Science.
- Accredited Laboratory for Food/beverage/water/air/soil testing.
- Procurement of more sophisticated analytical instruments.
- Certificate/diploma courses in analytical instrumentation.
- Online diploma in Analytical Instrumentation.

INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE RESEARCH AND EXTENSION IUCSSRE

| | | | | | | |
|-----|---|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Inter University Centre for Social Science Research and Extension (IUCSSRE) | | | |
| 2. | Year of establishment | : | 2010 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph.D | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Nil | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Our PhD students have participated in training workshops and methodology courses offered by other social science institutions in India | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | - | - | - |
| | | | Associate Professors | - | - | - |
| | | | Asst. Professors | - | - | - |
| | | | Others | - | - | - |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

| Name | Qualification | Designation | Specialization | No. of years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years* |
|-----------------------|---------------|---------------------|--|----------------------------|---|
| Dr. P Sanal Mohan | PhD | Hon. Director | History and Ethnography, Dalit Studies, Christianity, Modernity, Social Movement. | 23 Yrs | |
| Ms. Radhika P | M.Phil | Hon. Joint Director | Medieval social history, Kerala History, Social theory, Gender studies & Human geography | 18 Yrs | |
| Dr. P Madhu | PhD | Associate Fellow | Social theory, Social praxis & Tribal studies | 4 Yrs | |
| Ms. Mini Sukumar | M.Phil | Assistant Fellow | Women's studies | 1 Yr | |
| Ms. Elizabeth Abraham | M.Phil | Research Fellow | Gender studies, Political Sciences Oral history & Caste studies | 5 Yrs | |
| Ms. Susan Simon | M.Phil | Research Fellow | Human Geography | 3 Yrs | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Dr. Kavitha Philip
- Dr. Meera Velayudhan
- Dr. K V Kunhikrishnan

13. Percentage of classes taken by temporary faculty – programme-wise information:

90%

14. Programme-wise Student Teacher Ratio: 4:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Sanctioned: 3

Filled: 2

Work arrangements: 1

- 16. Research thrust areas as recognized by major funding agencies:** Minority Studies, Gender Studies, Human Ecology and Human Geography
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:** National -6 (ICSSR-1, Higher Education Council-5)

| Sl No. | Project | Funding Agency | Amount in Lakhs(₹) |
|--------|--|-------------------------------|--------------------|
| 1. | Writing Dalit lives: Anthology of Women's Voices from Kerala | ICSSR, New Delhi | 7.50 |
| 2. | Trans-formation of Land and Landscapes of Kerala: Locality Studies | Higher Education Council, GoK | 75.00 |
| 3. | Women's Struggle: A Documentation of Feminist Movement in Kerala | Higher Education Council, GoK | |
| 4. | Traditional Healing in a 'Modern Society: A Study on Policy, Practices and Pedagogy of Selected Healing Traditions in Kerala | Higher Education Council, GoK | |
| 5. | Human Ecological Studies Of Indigenous Communities in the Southern Western Ghats | Higher Education Council, GoK | |

Total grants received: ₹ 82.5 Lakhs

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration: Nil, Writing workshops in collaboration with Kannur and Calicut University
- b) International collaboration: Small maritime community project - 'The Kerala Maritime Community Projects

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Nil

20. Research facility / centre with

- State recognition : Yes



- National recognition : Yes
- International recognition: Yes

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 7 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 0 |
| 4. | Chapters in Books | 6 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 9 |
| | Total | 24 |

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :
- Citation Index : 27
- SNIP :
- SJR:
- Impact factor :
- H-index : 4

23. Details of patents and income generated : Paid to University ₹ 56,000/- (ICSSR Project)

24. Areas of consultancy and income generated: Functioning as Panchayath desk for consulting with the Local Self Government representatives.

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad : Dr. P Sanal Mohan has visited many national and international reputed institute

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

- International committee: Dalit Literature and/in translation, International network

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) : NA

28. Student projects:

- percentage of students who have done in-house projects including inter-departmental projects : 75 %
- percentage of students doing projects in collaboration with other universities / industry / institute — Nil

29. Awards / recognitions received at the national and international level by

- Faculty – 5 (one international Research award and 4 International Post Doc awards)
- Doctoral / Post-doctoral fellows
- Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

| Sl No. | Year | Seminars/ Conferences/Workshops |
|--------|---------|--|
| 1. | 2011-12 | Two Gender Studies Workshops for research students. (one national level and one regional level) |
| 2. | | Two academic writing workshops |
| 3. | | Marma vaidhyam consultancy workshop in association with Kalady Sanskrit University |
| 4. | | Panel discussion on science technology and society |
| 5. | | Panel discussion on science technology and society |
| 6. | | Two consultancy meetings with Kerala Grama Panchayath association |
| 7. | | Three day workshop for curriculum designing for elected members of the local self-governing bodies |
| 8. | | Two day seminar on local knowledge systems in association with ACESSD, M G University |
| 9. | 2012-13 | Two day Gender Studies Workshop for research students. |
| 10. | | Two day Gender Studies Workshop for research students |
| 11. | | National Seminar on 'New History' with the support of ICHR; Theme Discussion (1) |
| 12. | 2013-14 | Five day Gender Studies Workshop for research students |
| 13. | | Five day workshop on Political participation and women's development for members of the Local Self |



| | | |
|-----|---------|---|
| | | Government bodies |
| 14. | 2014-15 | Five day workshop on Political participation and women's development for representative of local self-governing bodies in February 2014 (17-21) |
| 15. | | Three day workshop on development and panchayath programmes SCP/TSP in November 2014 (5-7). |
| 16. | | Three day workshop on social justice and women/ panchayath jagratha samithies in December 2014. |
| 17. | 2015-16 | Five day Social Science Methodology Workshop, |
| 18. | | One day workshop on Clean Kumily Green Kumily documentation project |
| 19. | | One day Manual Labourers workshop on Clean Kumily Green Kumily documentation project |
| 20. | | Three day Panchayath training programme Funded by the Government of Kerala (Grant) |

31. Code of ethics for research followed by the departments:

The centre insists on following internationally recognized practices in creating original social science knowledge which include among others watching the monster of plagiarism and keeping away pirated versions of software etc. As far as plagiarism is concerned we are very much aware of the fact that in cases it is the inability of students to write on their own that creates the problem. Therefore the best remedy is not the final checking, though it is a powerful deterrent, but the most fundamental thing is to train students to read think and write. Our writings workshops were aimed at achieving this particular goal. We need to do a lot in this regard as our education system has a huge deficit in this particular are of creativity.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| PhD | 4 | 3 | 1 | NA | NA |
| PhD | 10 | 4 | 4 | NA | NA |

33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| PhD | 100% | Nil | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

NET - 3

SET - 2

35. Student progression: NA

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Post-Doctoral | Nil |
| Employed | |
| <input type="checkbox"/> Campus selection | |
| <input type="checkbox"/> Other than campus recruitment | Nil |
| Entrepreneurs | Nil |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | Nil |
| from other universities within the State | 80 % |
| from universities from other States from | 20% |
| from universities from other States from | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil

38. Present details of departmental infrastructural facilities with regard to

- Library — 1474 Books
- Internet facilities for staff and students — Provided
- Total number of class rooms — Nil
- Class rooms with ICT facility — Nil
- Students' laboratories — Nil
- Research laboratories — Computer Lab



39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university — 12 PhD Students
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: 1

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Yes. We assess the feasibility and future prospects of the programme before the development of new programmes.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback : Nil
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback : Nil
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback : Nil

43. List the distinguished alumni of the department (maximum 10) : NA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- National Seminar : 1
- Feminist/ Gender methodology National Workshop:4
- Academic Writing Workshop: 3
- Two day Workshop :1
- One day Workshop :4
- Panel Discussion :2
- Project Workshops :8
- Public Lectures:12
- Colloquium :1
- Theme Discussion :1

45. List the teaching methods adopted by the faculty for different programmes:

Seminar presentations part of coursework for PhD students. The Faculty of IUCSSRE usually organizes reading group meetings and discuss the pre-circulated papers/ book chapters. We also organize periodic presentation by PhD students in which all researchers participate and discuss research problems. We also use web based materials for the course work as well as for regular reading.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored: Students are encouraged to attend methodology workshops to make them aware of the recent trends in theories and methodologies and provide them a platform for interaction with external experts and resource persons. The PhD students have to make a working progress presentation every six months. As part of the Course Work, PhD students have to write formal examinations. We make it mandatory for students to take special examinations in their respective areas of enquiry.

47. Highlight the participation of students and faculty in extension activities : All the students and faculty of the Centre actively participate in the process of organizing and academically interacting in the extension activities of the Centre such as Panchayath Development activities for documentation

48. Give details of “beyond syllabus scholarly activities” of the department: Most of the scholarly activities of the Centre are “beyond syllabus”.

Our students participate in workshops and seminars organized by other ICSSR institutions and Universities in India. Similarly some students have participated/presented papers in Indian History Congress Annual Session, 2016 South Indian History Congress Annual session, 2017 as well as Kerala History Congress Annual Session, 2016. They also attend Erudite Lectures and other special academic events

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied: We have been engaged in praxis intervention research among marginalized communities, enabling research on everyday life. We have been conducting Gender Studies workshops for developing the research capacity of young researchers.

- Sanal Mohan Published two books in 2015; *Modernity of Slavery: Struggles Against Caste Inequality in Colonial Kerala*, New Delhi: Oxford university Press, 2015, ISBN 0-19-809976-2
- *Viswasavum Vimochanavum: Kyppetta Habel*, Tiruvalla: CSS, 2015, ISBN 978-81-7821-693-5
- Sanal Mohan, Creation of Social Space through Prayers among Dalits in Kerala in *Journal of Religious And Political Practice: Special Issue: Prayer and Politics*; Guest Editor; Peter van der Veer, Volume 2, Issue 1 February 2016, London: Routledge, ISSN: 2056-6093 (Print) 2056-6107 (Online) Journal homepage: <http://www.tandfonline.com/loi/rfrp20>
- Creation of Social Space through Prayers among Dalits in Kerala in *Prayer and Politics* (ed) Peter van der Veer London, Routledge, 2017 ISBN-13: 978-1138289215



- Sanal Mohan, Emotions in the Context of Caste Slavery: Exploring the Missionary Writings on Kerala, in Studies in Humanities and Social Sciences, Vol. XXII, Number 2, Winter 2015, PP.34-54. IAS Shimla ISBN-10: 1138289213

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Interdisciplinary research in Gender Studies, Praxis Intervention Research and Human Ecology and Human Geography
- The first Inter University Centre for Social Science Research in Kerala
- Academic contacts with other institutions in India and abroad

Weakness

- Shortage of Faculty
- Shortage of Space
- Unwanted bureaucratic delay

Opportunities

- We have lot of opportunities provided the centre is able to work without above mentioned hurdles.
- We had expression of interest regarding collaboration but we were reluctant to accept the offers.

52. Future plans of the department:

- Integration of other interdisciplinary themes with the current areas of research
- To initiate units - Unit for Study of Social Exclusion, Unit for Social History, Unit for Policy Studies, Unit for Local Development Studies
- Integrating academic capability programmes and remedial teaching and research.

INTER UNIVERSITY CENTRE FOR STUDIES IN SCIENCE OF MUSIC (IUCSSM)

| | | | | | | |
|-----|---|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Inter University Centre for Studies In Science Of Music (IUCSSM) | | | |
| 2. | Year of establishment | : | 2012 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Nil | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Steps are being initiated to carry out interdisciplinary research in the field of calibration of indigenous musical instruments and improvement of the quality of the instruments .The research activity includes the collaborative approach from various departments of the University | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | N.A | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | - | - | - |
| | | | Associate Professors | - | - | - |
| | | | Asst. Professors | - | - | - |
| | | | Others | - | - | - |



11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:** No permanent faculty
12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors :**

| Sl No | Name | Visiting Fellows, adjunct faculty, emeritus professors |
|-------|---|--|
| 1. | Dr. Jayachandran.K | Honorary Director |
| 2. | Prof. Dr.Sabu Thomas | Adjunct faculty |
| 3. | Prof. Dr. Aravindkumar | |
| 4. | Prof.Dr.K.Indulekha | |
| 5. | Dr. Nandakumar | |
| 6. | Dr. Prakashkumar.B | |
| 7. | Dr. Cyriac | |
| 8. | Dr. Biju P.R | |
| 9. | Prof Dr. James B Kinchen, Professor in Music, University of Wisconsin –Parkside | Visiting Fellows |
| 10. | Dr. Dileep Karanth, Department of Physics, University of Toledo, USA | Visiting Fellows |

13. **Percentage of classes taken by temporary faculty – programme-wise information:** Nil
14. **Programme-wise Student Teacher Ratio:** Nil
15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:** Nil
16. **Research thrust areas as recognized by major funding agencies:**
 - Construction of research studio-one crore eighty five lakhs ,Government of Kerala
 - Calibration of indigenous musical instruments-Submitted to Government of Kerala
 - Scientific studies on the performance and working of musical instruments
 - Design of new strategies for the sound quality improvement of musical instruments
 - Initiating new scientific approaches in music therapy

Inter University Centre for Studies in Science of Music (IUCSSM) of Mahatma Gandhi University broadly aims at conduct of research to understand everything about music: it's basic structure; it's biological, emotional and psychological effect on humans and the brain; it's healing and altering potential; and its function in the evolutionary process. By learning more about music, we can learn more about ourselves. Music helps scientists understand complex functions of the brain and opens up treatments for patients who are recovering from strokes or suffering with Parkinson's. Research even suggests that music may alter the structure of the brain. Studies in the science of music are almost an unknown activity in Indian academia. At IUCSSM, the traditional and known approaches to studies in music have

been given a go-by. This radical departure marks IUCSSM as the only one of its kind in this country. The centre serves as a platform for the convergence of experts from across the worlds that appreciate the larger import of such an interface and have made genuine attempts by exploring the scope of scientific understanding of music and its implications for common goods

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Proposal submitted before Kerala state Government-Establishment of a calibration facility for indigenous Musical instruments

Inter-institutional collaborative projects and associated grants received

National collaboration

- A collaborative research project on Effect of Music on Embryonic Development- A study on Avian Model was successfully completed out at Dept. of Computational Biology & Bioinformatics
- Steps are being taken for collaboration with Kannur University and Rajive Gandhi Institute of Technology, Pambady for initiating research activities in science of music

b) International collaboration

Wisconsin University, USA has agreed to collaborate with IUCSSM on completion of the construction of research studio.

18. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil

19. Financial assistance from State government for the construction of research studio

- Steps are being taken for initiating the construction for which MoU has already been signed with Kerala State Nirmithi Kendra. The primary objective of the centre in the last four months was to initiate the construction of the government sanctioned Research studio. After detailed discussions and negotiations in both technical committee and executive committee, the construction work of the research studio was entrusted with Kerala state Nirmithi Kendra in collaboration with Chitranjali studio, Trivandrum. A MoU in this respect was signed between the Registrar of Mahatma Gandhi University and Chief Engineer of Kerala state Nirmithi Kendra on 29 th March 2016.

20. Research facility / centre

Interuniversity Research centre for science of Music

Science of music has been included in the faculty of science and application will be invited for research in the coming academic year.

- State recognition –Steps are being initiated for collaborative work with Kannur University,



- National recognition- Nil
- International recognition -On completion of research studio new initiatives with Wisconsin university will be started

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

- Monographs: Nil
- Edited Books : Nil
- Publications as Chapters in Books : Nil
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average : Nil
- SNIP : Nil
- SJR: Nil
- Impact Factor – range : Nil
- average h-index: Nil

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : NA

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other
- b)(please specify) : Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- One day workshop on classical music appreciation and Veena-Venu-Violin Concert was organized in association with Saakhya Village & CMS College, Kottayam on 18/12/2012, Tuesday. Lecture Demonstrations were given by eminent flutist Dr. P Padmesh, Vocalist Sri. K Veeramoney and Vainika Sri. V Soundararajan. The performance was scientifically analyzed by Dr. James, KN, Cochin University of Science and Technology
- Violin maestro Smt N Rajam presented a concert in the seminar hall of School of Environmental Sciences on 07/06/2014 which was analyzed scientifically during the performance

- A seminar on science of music Mathematical analysis of swaras in an octave- A talk by G S Paul on 30 th March 2016 was arranged along with demonstration and performance of Kudukka veena by Kavil Unnikrishna Varrier.

28. Student projects

- ☐ Percentage of students who have done in-house projects including inter-departmental projects: NA
- ☐ Percentage of students doing projects in collaboration with other universities / industry / institute : NA

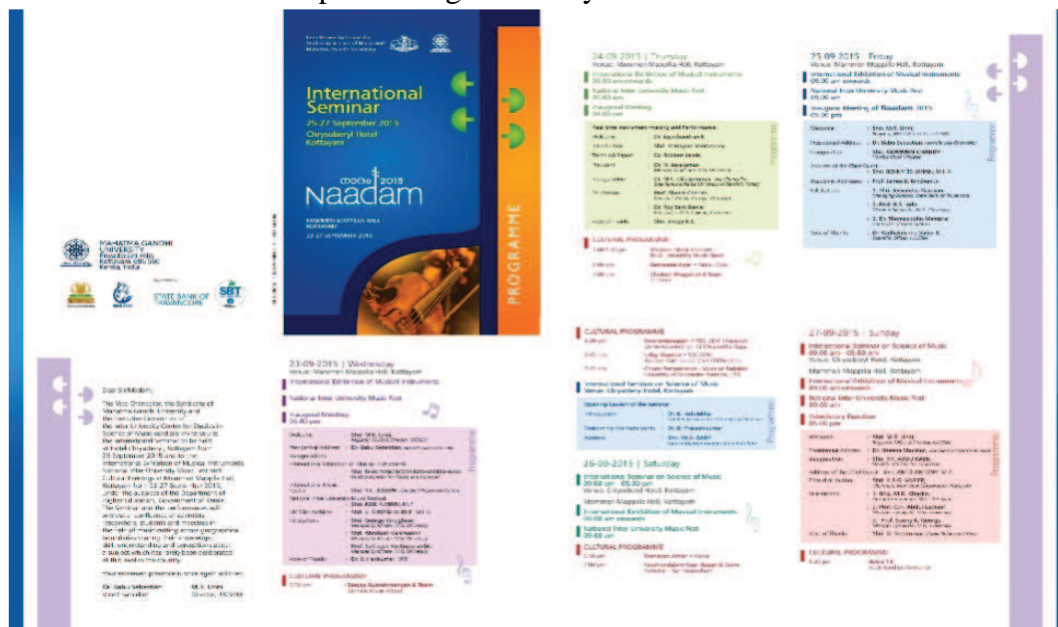
29. Awards / recognitions received at the national and international level by

- ☐ Faculty: Nil
- ☐ Doctoral / Post-doctoral fellows: Nil
- ☐ Students: Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

- ❖ International Seminar on Science of Music (ISSM) 2015 (25th – 27th Sept 2015)
A confluence of scientists, scholars, researchers and students cutting across geographical boundaries sharing their knowledge, understanding about a subject which has rarely been deliberated in the country.
 - Prof (Dr) James B Kinchen (Jr), Professor of Music, University of Wisconsin – Parkside and a team of sixteen choral performers participated in the Seminar organized by the centre at three as Erudite Scholar in Residence.
 - Dr. Dileep Karanth, Department of Physics, University of Toledo, USA also delivered key note address as Erudite Scholar in Residence.
 - Several key speakers, researchers, academicians and musicians participated in the seminar and presented papers on versatile topics
- ❖ **Exhibition of Musical Instruments**
 - A mind boggling variety of musical instruments was on display at the exhibition taking the visitor on a journey detailing the history, character and manufacturing process of each instrument.
 - Lending meaning and depth to it all were demonstrations on the making of selected musical instruments and performances with these. More than 600 musical instruments were displayed.
- ❖ **National Inter University Music Fest 2015**
 - A competitive event with prize money for the winners, featuring young talents who have amply displayed their artistry in national youth festivals and represent the sheer musical diversity of the country.
 - The fest showcased how music was achieved on national integration.
- ❖ **Cultural Events (Concerts)**

- Cultural events highlighting India's rich musical heritage lending colour and charm to ISSM 2015 and living up to its focus on the science of music enriched the proceedings from day one.



31. Code of ethics for research followed by the departments:

Research programme in the Centre shall be initiated soon. The centre has been supporting research in science of music through centre in other universities like Kerala and Kannur. Care is taken to check plagiarism and also to ensure the involvement of the contributing musician.

32. Student profile programme-wise: NA

33. Diversity of students- NA

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: Nil

35. Student progression- Nil

36. Diversity of staff- Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities

As an Interuniversity centre the facilities in other science departments can be used once research programme is initiated

39. List of doctoral, post-doctoral students and Research Associates- Nil

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

The centre has been supporting research activities in centre of other universities and is about to start its own research initiatives. The need to establish a research centre in science of music is consistently demanded by many musicians and music instrument performers. More than those studies on science of music is never being attempted in a serious way. Hence the initiatives taken by the centre is novel and sure to contribute to the field of science.

42. Does the department obtain feedback -NA

43. List the distinguished alumni of the department (maximum 10): Nil

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:

| Sl No. | Programmes | Date |
|--------|--|-------------|
| 1. | Live demonstration and lecture by Dr. Umayalpuram K Sivaraman and Dr. D Naresh on Sound and Science: measure for measure. Lectures were also delivered by Dr. Suvarna Nalappattu, Dr. Achuth Sankar S Nair and Sri. Thiruvizha Jayasankar | 24/04/2012 |
| 2. | Talk delivered by Dr. Suneesh George, Franhauser Institute of Integrated Circuits on Audio Quality Evaluation. | 8/06/2012 |
| 3. | A lecture demonstration on Acoustic Study on Veena by Veena Maestro Prof Puthukkottai R Krishnamurthi was conducted at CMS College, Kottayam. Lecture Demonstrations were given by eminent flutist Dr. P Padmesh, Vocalist Sri. K Veeramoney and Vainika Sri. V Soundararajan. The performance was scientifically analyzed by Dr. James, KN, Cochin University of Science and Technology | 18/12/2012 |
| 4. | A lecture demonstration was conducted by Dr. Pradeep Somasundaram, Princial, College of Applied Science, Vadakkancherry, Palakkad on in the seminar hall of School of Pure and Applied Physics | 08/03/2013 |
| 5. | Violin maestro Smt N Rajam presented a concert in the seminar hall of School of Environmental Sciences | 07/06/2014 |
| 6. | A seminar on science of music Mathematical analysis of swaras in an octave-A talk by G S Paul on was arranged along with demonstration and performance of Kudukka veena by Kavil Unnikrihna Varier | 30 /03/2016 |



- 45. List the teaching methods adopted by the faculty for different programmes: NA**
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? NA**
- 47 Highlight the participation of students and faculty in extension activities. NA**
- 48. Give details of “beyond syllabus scholarly activities” of the department. NA**
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No**
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The interuniversity centre for the studies in science of music is meant to be a convergence platform for blending every branch of knowledge with the science of music. The objective has been realized in large measure, considering the relatively recent inception of the centre in 2012. Many successful programme like Swathi Sudha and Sasthiya Sangeetha Aswadan. However the major event hosted by the centre was “Nadam 2015” which was really an international ensemble on the science of music. Nadam 2015 was a grant international event involving the participation of many national and international delegates. The event includes Musical instruments exhibition, Demonstration of making of musical instruments and mainly, the international seminar on science of music. The exhibition event was inaugurated by the then Honourable Minister Sri. Thiruvanchoor Radhakrishnan.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

- First of this kind in the state, may be in the country- Good support from various sectors
- Support from all Science Departments and Music Departments in various Universities in Kerala
- Collaboration with University of Kerala, CUSAT, PES University, Bangalore and University of Wisconsin-Parkside
- Intellectual capital developed during Nadam 2015 the International ensemble on Science of Music
- Even though we are studying the Science of Music, the music is taken to common man at the aesthetic level while studying scientifically

Weakness:

- Lack of experienced faculty members who are well versed in Science of Music
- Lack of space and infrastructure
- Lack of manpower in the centre
- Lack of a comprehensive structure- rules/regulations of research etc for the Inter University Centre

Opportunities:

- The Centre is planning to start Ph D programme in various scientific areas related to Music
- Scope for scientifically exploring the making of indigenous musical instruments
- Short term courses in conservation of technology and science behind the making of indigenous musical instruments of the state and the nation

Challenges:

- The area of Science of music is excellent- Bringing convergence-Bringing talented/ interested scientists/musicians to a single platform is absolutely challenging
- Bringing more scientists into the stream
- Establishing the research studio within one year and thereafter managing it
- To tap funds from the funding agencies to establish a research lab

52. Future plans of the department.

- To establish a research studio that can facilitate various research activities and recordings of international standards
- To collaborate with international organizations in the field of 'Science of Music'
- To promote innovative ideas (Scientific, technological and aesthetic aspects) in science of Music
- To conduct and support research in all possible areas in 'Science of Music'
- To conduct short term courses in Indian music, western music and also in various scientific aspects of the same.
- Research proposals are to be invited from interested groups and institutes and the Centre shall provide financial assistance to them, if found eligible
- To initiate a University Multi Media Research Centre (UMMRC) to facilitate better recording, storage and analyze new knowledge generated in various branches of academics and also to provide fast, extensive and promising transmission of new information generated



ADVANCED MOLECULAR MATERIALS RESEARCH CENTRE (AMMRC)

| | | | | | | |
|--|---|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Advanced Molecular Materials Research Centre (AMMRC) | | | |
| 2. | Year of establishment | : | November 2012 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Ph.D programmes are offered under the 1. Faculty of Engineering and Technology 2. Faculty of Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph. D | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Teachers from various science departments of the university and affiliated colleges are associated with the centre as Adjunct Faculties (For details see Item No.12). The research programmes are highly interdisciplinary. | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Ph. D | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | N.A | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Research scholars of AMMRC doing Ph.D course work at School of chemical Sciences | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | Nil | Nil | Nil |
| | | | Associate Professors | Nil | Nil | Nil |
| | | | Asst. Professors | Nil | Nil | Nil |
| | | | Others | Nil | Nil | Nil |
| No permanent teaching faculties in AMMRC | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialisation | No. of Years of Experience | No. of Ph.D./ M.Phil./M.Sc students guided (last 4 years) |
|---------------------|-------------------|---------------------------------|----------------------------|----------------------------|---|
| Prof. Suresh Mathew | MSc., Ph.D | Professor, and Adjunct Faculty | Inorganic chemistry | 20 years | Ph. D-0 M.Phil-3 M.Sc.-3 |
| Dr. S. Anas | MSc., B.Ed., Ph.D | Hon. Director & Adjunct faculty | Polymer/ Organic chemistry | 6 years | Ph. D-0 M.Phil-1 M.Sc-8 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| Sl. No | Name | Visiting Fellows/ Adjunct faculty/ Emeritus professors | Specialization |
|--------|--|--|---------------------------|
| 1. | Dr P.Radhakrishnan Nair | Visiting Professor & Adjunct faculty | Polymers & propellants |
| 2. | Prof.A.S. Padmanabhan, SCS, MGU | Adjunct faculty | Theoretical modeling |
| 3. | Prof. M. Padmanabhan SCS, MGU | Adjunct faculty | Inorganic chemistry |
| 4. | Dr. P.R.Biju. SPAP, MGU | Adjunct faculty | Physics |
| 5. | Dr. Linu Mathew SBS, MGU | Adjunct faculty | Biosciences |
| 6. | Dr. Thomas Varghese Nirmala College, Moovattupuzha | Adjunct faculty | Inorganic chemistry |
| 7. | Dr. Vibin Thomas CMS College, Kottayam | Adjunct faculty | Computational Chemistry |
| 8. | Dr. G.Anilkumar SCS, MGU | Adjunct faculty | Organic chemistry |
| 9. | Dr. Sunish K. S. CMS College, Kottayam | Adjunct faculty | Opto-electronic materials |

13. Percentage of classes taken by temporary faculty – programme-wise information:
 Not Applicable

14. Programme-wise Student Teacher Ratio

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| Ph.D | 4:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | Nil | Nil |
| Administrative Staff | Nil | 1 (contract) |

16. Research thrust areas as recognized by major funding agencies:

Photocatalysis, Metal Organic Frame work solids, Nanofluids and High energetic materials

17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) National

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹ in lakhs) |
|--------|---|---------|------------------|-------------------------|
| 1. | “Propellant Burn rate modifiers (PI: Prof. Suresh Mathew, Co-PI: Dr. P. Radhakrishnan Nair) | 2016-18 | ISRO | 19.20 |

b) International

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹) |
|--------|---|---------|-----------------------|----------------|
| 1 | “Study of fundamental Chemical and Physical properties of magnetic ionic liquid nanofluids”. collaboration with Department of Physics, Rzeszow University of Technology, Poland (PI: Prof. Suresh Mathew) | 2015-17 | DST, Govt. of India & | 5.10 |

Total grants received: ₹ 24.30 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil

b) International collaboration: Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- State recognition: Yes
- National recognition: Yes

- International recognition: Yes

21. Special research laboratories sponsored by/created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 10 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 10 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - Nil
- Citation Index – range / average 373
- SNIP - Nil
- SJR - Nil
- Impact Factor – range / average – 2to 4.5
- h-index – 10 (Present)

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories/ institutions/industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory |
|---------|---------------------|---|
| 1. | Dr.Suresh Mathew | 1. Adjunct faculty visited Resezdow University, Poland in connection with the joint project in 2015 October |

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any



other (please specify)

- a) National committees - Nil
- b) International committees - Nil
- c) Editorial Boards

| Sl. No. | Name of the faculty | Editor |
|---------|---------------------|---|
| 1 | Dr Suresh Mathew | Associate editor for Science Letters, published by Cognizure & Lognor |

- d) any other (please specify) - Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

Faculty members have active participation as recourse persons in various seminars and workshops. Students are regularly presenting papers in seminar and conferences.

Invited Talks by faculties

Prof .Suresh Mathew

- Invited Talk on “Phase stabilization of Ammonium Nitrate”- Suresh Mathew, Department of Inorganic Chemistry, Peking University, Beiging, China, September 30, 2013.
- Invited talk on “Thermal studies of phase stabilization of ammonium nitrate”- Jisna Jos, Suresh Mathew in International autumn seminar on Propellants, Explosives and Pyrotechnics at Chengdu, Sichuan Province, China, September 24-27, 2013.
- Invited Talk on “Photocatalysis by Nano Titania - a review of sustainable energy options”- Suresh Mathew, New York University of Abu Dhabi, May 17, 2015.
- Invited talk on “Advanced thermo analytical techniques as a diagnostic tool for phase transition studies”- Suresh Mathew, National Conference on Advanced Technologies for material processing and diagnostics organized by Indian Society of Analytical Scientists (ISAS)- Kerala chapter, September 18-20, 2014.
- Paper presented on “A nano Calcium metal organic framework constructed from 1, 2-phenylenediacetic acid: Synthesis, luminescence and thermal stability” - Seetharaj R, Vandana P.V, Tony Francis and Suresh Mathew in the National Seminar on Modern Trends in Chemistry organized by Department of Chemistry, St. Joseph’s college, Irinjalakuda, January 23-24, 2015.
- Poster presented on “Photocatalytic Organic Pollutant Degradation in Iron based Nano Metal organic frameworks under U.V. light irradiation”- Vandana P. V. Seetharaj R. and Suresh Mathew in the National Conference on Materials Science and Technology organized by Department of Chemistry, Indian Institute of Space and Technology, Trivandrum, July 06-08, 2015.



7. Poster presented on “Catalytic Activity of Self Assembled Nano CuO on the Thermal Decomposition of Ammonium Nitrate” – Jisna Jos and Suresh Mathew in the National Conference on Materials Science and Technology organized by Department of Chemistry, Indian Institute of Space and Technology, Trivandrum, July 06-08, 2015.
8. Paper presented on “Synthesis and characterization of cerium metal organic frameworks constructed by pyridine 2, 6 dicarboxylic acid” - Vandana P.V, Seetharaj R, Sethulakshmi P and Suresh Mathew in the National Seminar on Modern Trends in Chemistry organized by Department of Chemistry, St. Joseph’s college, Irinjalakuda, January 23-24, 2015.

In addition Prof. Suresh Mathew has visited Poland and delivered lectures as part of faculty exchange programme

Invited Talks by Dr. S. Anas

9. Invited lecture by Dr. S. Anas on “Exploring the versatility of pentafulvenes at the national conference on recent advances in spectroscopy: chemical and biological perspective-II organized by Newman College, Thodupuzha, September, 2015, Abs-14
10. Invited talk by Dr.S.Anas on “Metals in Organic synthesis” at Govt. Brennen College, Thalassery, Kerala in a National Seminar on “Recent Advances in Chemistry (RAC-2015) on 15th December 2015.
11. Conducted a motivation class Dr. S. Anas on “Emerging Youth” for National Service Scheme (NSS) Volunteers of Govt. Devi vilasom HSS, Kudavechoor, Vaikom in connection with the training camp held at Gov. H.S.S. T.V. Puram, Vaikom on 22nd December 2015
12. Invited talk by Dr.S.Anas on “Applications of Palladium catalysis in Organic synthesis” at Devamatha College, Kuruvilangad, in a national seminar on “Recent trends in catalysis-2016” on 7th January 2016
13. Delivered a general talk by Dr.S.Anas on “*Teacher education and society*” on 13th January 2016 at Sobha College of Teacher Education, Mararikulam, Alappuzha as part of inauguration of various subject association activities of the college.
14. Invited talk by Dr. S. Anas on 4th February 2016 at St. Michaels College, Cherthala as part of inauguration of UGC sponsored national seminar on “New trends in material science”.

Invited Talk Dr P.Radhakrishnan Nair (Visiting Professor)

15. Invited talk in National Seminar on Indigenous Warships- Avenues & Opportunities for Indian Rubber Industry on 6th June 2014 at Rubber Research Institute of India, Kottayam on “Polyurethanes as corrosion resistant coatings for Defense applications”



Invited Talks by Dr. Sunish Sugunan(Research staff)

16. Tapping the most out of organic solar cells and light emitting diodes: paradigm shifting technologies, by Sunish K. Sugunan, 5th January, 2016, in Special Seminar organized by Department of Chemistry, CMS College, Kottayam.
17. Invited talk by Dr. Sunish on Fundamentals of material science, in the national work shop on material science organised by SRIBS, kottayam and AMMRC on March 4-6 , 2016 at Kottayam

28. Student projects

| | |
|---|-----|
| Percentage of students who have done in-house projects including inter-departmental projects | Nil |
| Percentage of students doing projects in collaboration with other universities / industry / institute | Nil |

29. Awards / recognitions received at the national and international level by

• Faculty

| Name of the faculty | Details |
|---------------------|---|
| Dr Suresh Mathew | Rodolph A Marcus award -2016 on chemical sciences by publishing division of by Cognizure & Lognor |

• Doctoral / Post-doctoral fellows – Nil

• Students – Nil

30. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any:

| Sl No | Name of National/ International Conference | Funding agency | Eminent Scholars/Scientist who participated |
|-------|---|------------------------|---|
| 1 | National seminar on Current trends in Material Sciences on 15-11-2013 | MGU | 1. Dr. Vijayamohanan Pillai, CECRI, Karaikudi 2. Dr K.R.Dayas, CMET, Trichur 3. Dr Shaaajumon Cherian, IISER, TVM |
| 2 | National seminar on Recent trends in Inorganic-Organic Hybrid Materials on 26 - 27 February, 2015 | MGU | 1. Dr. J. N Behera (NISER, Orissa) 2. Dr. T.K. Maji (JNCASR, Bangalore) 3. Dr. S. Natarajan, (IISc,, Bangalore) 4. Dr. R. Murugavel, (IIT,Mumbai) |
| 3 | National workshop on Advances in Material Science on March 4-6 2016 | KSCSTE, Govt of Kerala | 1. Dr. Kuruvilla Joseph, IIST, Trivandrum 2. Dr. Santhosh Babu, NCL, Pune 3. Dr. Joshy Joseph, NIIST, Trivandrum 4. Dr. Manoj Namboothiri IISER, Trivandrum. |
| 4 | National Seminar on Recent Advances in Materials Sciences on November 18-19, 2016, funded by University | MGU | 1. Dr. Subi Jacob George, JNCASR, Bengaluru 2. Dr. Vinod Prabhakar, NCL, Pune 3. Dr. U. Hareesh, NIIST, Trivandrum 4. Dr. Jobin cyriac, IIST, Trivandrum |

31. Code of ethics for research followed by the departments:

Progress and novelty of the research work is assessed during the routine group meetings and assessment committees. Plagiarism software is being used to monitor the research articles and thesis.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) Ph.D | Applications received | Selected | | Pass percentage | |
|---|--------------------------|----------|--------|-----------------|--------|
| | | Male | female | Male | Female |
| 2012 | | | | | |
| 2013 | Nil | Nil | Nil | NA | NA |
| 2014 | 1 | Nil | 1 | NA | NA |
| 2015 | 7 | Nil | 4 | NA | NA |
| 2016 | Nil | Nil | Nil | NA | NA |

33. Diversity of students

| Name of the Programme (refer to question no. 4) Ph.D | % of students from the same University | % of students from other Universities with in the state | % of students of students from Universities from Outside state | % of students of students from other countries |
|--|--|---|--|--|
| | 0 | 40 | 60 | Nil |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

| Sl.No | NET/ JRF Qualified | GATE | SET | Others |
|-------|--------------------|------|-----|--------|
| 1. | 1 | | | |

35. Student progression

| Student progression | | Percentage against enrolled |
|--------------------------|-------------------------------|-----------------------------|
| | UG to PG | NA |
| | PG to M.Phil. | NA |
| | PG to Ph.D | NA |
| | Ph.D. to Post-Doctoral | Ph.D. not yet awarded |
| | Employed | Nil |
| <input type="checkbox"/> | Campus selection | |
| <input type="checkbox"/> | Other than campus recruitment | |
| | Entrepreneurs | Nil |



36. Diversity of staff:

No permanent faculty in AMMRC details of others are

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | 100 |
| From other universities within the State | Nil |
| From universities from other States | Nil |
| From universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

Nil

38. Present details of departmental infrastructural facilities with regard to

- Library** : Total 25 books available
- Internet facilities for staff and students** : Available
- Total number of class rooms** : 2 rooms for AMMRC and sharing with SCS
- Class rooms with ICT facility** : Nil
- Students' laboratories** : Sharing with SCS laboratories
- Research laboratories** : Sharing with SCS laboratories

39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university : Nil
- from other institutions/universities : 5

| Name of Guide | Name of Scholar | Post-doctoral |
|---|----------------------|---------------|
| Dr.P. Radhakrishnan Nair Prof. Suresh Mathew (Co-guide) | Merilyn Mary Xavier, | Nil |
| | Sithara Gopinath | |
| | Sheeba V | |
| | Soorya Sasi | |

40. Number of post graduate students getting financial assistance from the university.

NA

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

After discussing with experts and stake holders in the area of proposed research

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? **NA**
- Students on staff, curriculum and teaching-learning-evaluation and how does the

department utilize the feedback? **NA**

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? **NA**

43. List the distinguished alumni of the department:

No student passed out from the centre with Ph.D degree since its start in November 2012

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Conducting seminar/Talk/workshop for students and arranging weekly seminar series

(For more details about seminar and workshops refer item No. 30)

Other Lecture/talks arranged

1. Dr. K. N. Ninan, a senior scientist closely associated with “Mangalyaan” delivered a popular lecture on “Indian Journey to Mars” on 18th February, 2015.
2. Prof. Gawel of Department of Physics, Rzeszow University of Technology, Poland delivered a series of lectures at AMMRC and interacted with students for a period of two weeks in October 2015 in connection with Indo Poland joint project
3. Organised a lecture on “*Nanocatalyst Development for Fuels from Biomass*” by Prof. Debasish Kuila of North Carolina A&T State University, USA in association with IUIC on 22nd December, 2016

45. List the teaching methods adopted by the faculty for different programmes:

For Ph.D seminars and review presentations all faculty members and students are adopting modern teaching technologies such as audio visual aids.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

- We are conducting weekly review meeting of students and faculties to assess the progress of the research activities.
- Our students are undergoing 6 months Ph.D course work programme and examinations as a part of their curriculum.
- In addition the executive committee of AMMRC will monitor the overall performance of the centre at least twice in every year

47. Highlight the participation of students and faculty in extension activities:

The faculties are regularly giving popular and general lectures as given below.

General lectures by Dr. S. Anas is listed below



1. Dr. S. Anas Presented a paper on “*Alternative Energy Resources in Kerala*” in the New Kerala development forum organized by Solidarity Youth movement held at Ernakulam on 2011 March 11
2. Invited talk on “*Scientific Research: Methodology/Trends/Gaps*” at St. Joseph’s Training College, Mannanam, Kottayam on 28th February 2014 in connection with the National Science day celebrations.
3. Delivered the public lecture on “*Value based education*” in the education seminar organized at Govt. Higher Secondary School, T. V. Puram, Vaikom, Kottayam on 28th February 2014 in connection with the School annual day celebrations.
4. Invited talk on “*Scientific Research: Trends/Gaps*” at Kerala University College of Teacher Education, Kayamkulam, Kerala in the National Seminar on “Acculturation of Scientific and Social Self”: Nurturing Scientific Temper as a Way of Life” on 6th February 2014.
5. Paper presented entitled “*Our research practices: A re-search*” in the national seminar on “Research Education in Kerala: Trends/Gaps” organized by Society for Educational Research in connection with Kerala Education congress conducted by SIO Kerala Chapter held at Thiruvananthapuram on 16-17 November 2013.
6. Conducted an orientation class for high school students on “Science and Society” in connection with the inauguration of the school science club of Govt. Higher Secondary School, T.V.Puram, Vaikom, on 21st August 2013.
7. Conducted a motivation class on “Time management” for NCC cadets in connection with the 3 Kerala Air sqn NCC training camp held at VJHSS, Naduvathnagar, Cherthala, on 12th September 2014.
8. Delivered a general talk on 4th February 2016 at St. Michaels College, Cherthala as part of inauguration of UGC sponsored national seminar on “*New trends in material science*”.
9. Delivered a general talk on “*Teacher education and society*” on 13th January 2016 at Sobha College of Teacher Education, Mararikulam, Alappuzha as part of inauguration of various subject association activities of the college.
10. Conducted a motivation class on “Emerging Youth” for National Service Scheme (NSS) Volunteers of Govt. Devi vilasom HSS, Kudavechoor, Vaikom in connection with the training camp held at Gov. H.S.S. T.V. Puram, Vaikom on 22nd December 2015

Participation in Other Extension activities by Dr.S.Anas

1. Interview for JRF at KE College Mannanam 20th March 2014
2. As observer for JEE(main) 2014 exam at Kozhikode centre on 5th and 6th April 2014
3. Camp director, career guidance workshop organized by sio,thuravoor
4. As observer for JEE(main) 2015 exam at Kozhikkod centre on 4th April 2015
5. Election duty as presiding officer for 2015 local body elections in Kerala
6. As observer for JEE(main) 2016 exam at Kozhikkod centre on 3rd April 2016

48. Give details of “beyond syllabus scholarly activities” of the department:

- Weekly review meeting of students and faculties.
- General seminars by students
- Arranging expert lectures
- Industrial and institution visits
- Festival and special day celebrations
- Open day for school students (in association with SCS)
- Arranging Lab/Field visits

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: No**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**

AMMRC is involved in research activities in diverse areas of Material research.

The contributions and significance of the centre is reflected in the research output given below.

| | | |
|------------------------------------|---|---------------------|
| International Journal publications | : | 10 |
| Seminar/conference papers | : | 17 |
| Seminar/workshop organised | : | 3 |
| Invited lectures arranged | : | 3 |
| External funding | : | 2 (Rs. 24.3 Lacks) |
| M.Sc. Projects completed | : | 8 |
| Recognition/ award for faculty | : | 1 |
| New instruments procured | : | 7 |

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**Strength**

- Promoting advanced research in material science
- Procured good, supportive instrumentation
- Experienced research personnel
- Dynamic research scholars
- Motivating research environment



Weakness

Lack of the following

- Adequate office and lab space
- Technical / administrative staff
- Effective interschool participation
- Linkages/collaboration with industry
- research guides at AMMRC

Opportunities

- To do research in frontiers of material chemistry
- To carry out advanced research projects (UG /PG) in functional materials.
- To avail modern instrumentation facility for all researchers
- To familiarize with recent trends and developments in material science
- To interact with reputed material scientists
- To establish student/faculty exchange programs
- Capacity building programs for faculties and students

Challenges

- Adjust with the working space.
- Utilization of the Government grant sanctioned for establishment of the centre.
- Development of linkage with industries.

52. Future plans of the department.

- Diversification of research activities (Research networking)
- Offer research fellowships
- Procuring more equipment
- Induction of new research personnels
- International conferences in every year
- Bringing out more research publications in high impact journals
- Publishing books and Reviews
- Submission of more research proposals useful for industries
- Developing International collaborations
- AMMRC is planning MoU with Australian Institute of High Energetic Materials for active collaborations on high energy materials research. (With Prof. Alexander Lukin).
- Planning for a collaborative research with Dr. Carlos Rinaldi, Professor at J. Crayton Pruitt, Department of Biomedical Engineering and Department of Chemical Engineering, University of Florida, Gainesville, USA

- Extend the Collaborative research with Uppsala University, Sweden

Plans for tapping of external funds

- Proposal on Nanomaterials based micro electro mechanical systems (MEMS) is submitted to DST (PI. Prof Suresh Mathew and Dr. P.Radhakrishnan Nair).
- Proposal on Flexible Third Generation Solar Cells based on Solvent free Nanoliquids is submitted to DST. (PI. Prof Suresh Mathew and Dr. P.Radhakrishnan Nair).



CENTRE FOR ENGLISH LANGUAGE AND COMMUNICATION SKILLS

| 1. | Name of the Department | : | Centre for English Language and Communication Skills | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|---|--|------------|--------|-----------------------------|-----------|-----|-----|-----|----------------------|-----|-----|-----|------------------|-----|-----|-----|--------|-----|-----|-----|
| 2. | Year of establishment | : | 2009 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | No | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Certificate Course in English Communication (PGCEC) | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Students from different backgrounds and disciplines have joined and benefitted from the Open Course which we conducted. | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | None | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | None | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | Annual/Semester/Trimester/Choice Based Credit System Short Term course of two months duration. | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | The centre has offered an open Course for other Schools | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/Asst. Professors/others) | <table border="1"> <thead> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual(including CAS & MPS)</th></tr> </thead> <tbody> <tr> <td>Professor</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Associate Professors</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Asst. Professors</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Others</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> </tbody> </table> <p style="text-align: center;">This Centre has no permanent faculty</p> | | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | Nil | Nil | Nil | Associate Professors | Nil | Nil | Nil | Asst. Professors | Nil | Nil | Nil | Others | Nil | Nil | Nil |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Others | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|----------------------------|---------------|---|--------------------------------------|----------------------------|--|
| Dr. Sherine Upot, Director | MA PhD | Professor, School of Distance Education Retd. | Literary Studies | 32 years | |
| Dr. K M Krishnan | M A PhD | Associate Professor, School of Letters | American Literature, Fiction Studies | 28 years | Ph D 2 M Phil 16 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Adjunct Faculty Prof Bhaskaran Nair, Pondicherry Central University
- Prof. Sherine Upot, School of Distance Education
- Dr. K M Krishnan
- Dr Saji Mathew, School of Letters
- Ms Cinny Rachel, CMS College, Kottayam
- Guest Faculty: Ms. Anne Martha Varghese.

13. Percentage of classes taken by temporary faculty – programme-wise information:

All classes are handled by Adjunct or Guest faculty

14. Programme-wise Student Teacher Ratio:5:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Administrative Assistant:1, Office Assistant: 1

16. Research thrust areas as recognized by major funding agencies: None

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil.

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration: None



- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:** None
- 20. Research facility / centre with**
- ☐ State recognition: Nil
 - ☐ National recognition: Nil
 - ☐ International recognition: Nil
- 21. Special research laboratories sponsored by / created by industry or corporate bodies-** Nil
- 22. Publications:**
- Number of papers published in peer reviewed journals (national/international): Nil
 - Monographs: Nil
 - Chapters in Books : Nil
 - Edited Books : Nil
 - Books with ISBN with details of publishers: Nil
 - Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil
 - Citation Index – range / average: Nil
 - SNIP: Nil
 - SJR: Nil
 - Impact Factor – range / average: Nil
 - h-index :Nil
- 23. Details of patents and income generated :** Nil
- 24. Areas of consultancy and income generated :** Nil
- 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad -1**
- 26. Faculty serving in**
- a) National committees - Nil
 - b) International committees - Nil
 - c) Editorial Boards



| Sl. No. | Name of the faculty | Editor |
|---------|---------------------|--|
| 1 | Dr. K M Krishnan | <ul style="list-style-type: none"> • Haritham, Journal of School of Letters • Editorial Committee of Dheemahi, Journal of CIFSS • Member Editorial Board of MG University e journal |

d) any other (Please specify) -Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Coordinated, attended, and gave plenary sessions, presentations and chaired sessions. See list

Dr. K M Krishnan Participation in Seminars Workshops etc.

2012-16

- 1) Felicitations as Joint Coordinator, International Seminar on English Studies, Catholicate College, Pathanamthitta January 2012
- 2) As Member of panel constituted by Government of Kerala to prepare Text Book for State Skill Development Programme SSDP for ASAP took part in Workshop in July 2012.
- 3) Presented a paper on Novel and Short Story Research at Seminar on Research methodology-Approaches and Possibilities 11-13 June 2013, Department of Malayalam, University of Kerala Karyavattom, Trivandrum.
- 4) As Joint coordinator offered felicitations and chaired a session at Seminar on "Event, Memory and Literature: Trauma Narratives of the indian Subcontinent at St Thomas College, Kozhencherry, 5, 6 September, 2013.
- 5) Presented a paper on "Janakeeya Sahithyam Sankalpanam Charithram" Muttath Varkey Centenary Seminar, organized by Sahitya Akademi, New Delhi and Muttath Varkey Foundation at SB College, Changanacherry. 13-15 December, 2013.
- 6) Gave the inaugural Lecture and made a plenary presentation on Space at Seminar on "Idam: Reflections on Space, Gender and Identity" at BCM College, Kottayam, 17, 18 January, 2014



- 7) Served as Coordinator of “National Seminar on Comparative Literature” in connection with the retirement of Prof. P P Raveendran 25, 26 and 27 March 2014.
- 8) Felicitations and Valedictory remarks as Joint Coordinator, Seminar on Art forms of Kerala, B K College, Amalagiri, August 2012.
- 9) Camp Director DSS Workshop on Poetry 25, 26 September 2012.
- 10) Camp Director DSS Workshop on Drama 27, 28, 29 September 2012.
- 11) Presentation on Western and Eastern literary Theory, Govt. Sanskrit College, Tripunithura, February 2013
- 12) Participated in Seminar on “Publishing” conducted by School of Letters and NBT, 12 January 2015.
- 13) Gave a plenary lecture on “Resistance of Forms: Forms of Resistance” Sree Vyasa N S S College, Vadakkancherry 5 February 2015.
- 14) Gave a plenary presentation on “Humour and the Nation” Assumption College Changanassery 2 July 2015
- 15) Coordinated Kathakali demonstration organized by School of Letters in association with DSS, Mahatma Gandhi University, 11 August 2015.
- 16) Workshop on Malayalam Computing, in association with DSS, Mahatma Gandhi University, School of Letters, October 2015.
- 17) Gave a plenary lecture on “Passages to India Passages to America” BCM College, Kottayam 27 November 2015
- 18) Chaired session at Seminar on Padmarajan School of Letters, 2-4 February 2016.
- 19) Attended Seminar on Poetry in memory of D Vinayachandran, School of Letters 12 February 2016
- 20) Plenary Lecture on “Ways of Seeing: Reflections on Popular Culture” at National Seminar conducted by Department of English, Govt Arts College, Trivandrum on 1 March 2016.
- 21) Chaired a session at Seminar on Thirukkural, School of Letters, 2-4 March 2016.

28. Student projects

- percentage of students who have done in-house projects including inter-100%
- percentage of students doing projects in collaboration with other universities / industry / institute: Nil

29. Awards / recognitions received at the national and international level by

- ☐ Faculty ☐ Doctoral / post-doctoral fellows ☐ Nil ☐ Students:



30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any: Nil

31. Code of ethics for research followed by the departments: Though no research projects have been undertaken, strict vigil as far as the quality of software used in our training programmes is maintained. No plagiarism is being encouraged.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| PG CEC | 135 | 26 | 42 | 77% | 81% |

33: Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| PGCEC | 80 | 18 | 2 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:
Nil/NA

35. Student progression

| Student progression | Percentage against enrolled |
|---|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | 10 |
| PG to Ph.D. | 5 |
| Ph.D. to Post-Doctoral | Ph.D. not yet awarded |
| Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment | Nil |
| Entrepreneurs | Nil |

36. Diversity of staff: No permanent staff

| Percentage of faculty who are graduates | |
|--|------|
| Of the same university | Nil |
| From other universities within the State | 100% |
| From universities from other States | Nil |
| From universities outside the country | Nil |



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period Nil

38. Present details of departmental infrastructural facilities with regard to

- | | |
|---|-------------------------|
| a) Library | : 1209 books and 51 CDs |
| b) Internet facilities for staff and students | : Yes |
| c) Total number of class rooms | : Nil |
| d) Class rooms with ICT facility | : 1 |
| e) Students' laboratories | : 1 |
| f) Research laboratories | : Nil |

39. List of doctoral, post-doctoral students and Research Associates:

- a) from the host institution/university Nil
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: new programmes are designed only after a thorough feedback from stakeholders. Demand from the public prompted the designing of a new diploma programme, yet to be implemented.

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback: No regular faculty. Yet the adjunct faculty and the guest faculty give significant inputs and give feedback.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback: The feedback from students is of vital importance in designing the curriculum and syllabus of the centre.
- Alumni and employers on the programmes offered and how does the department utilize the feedback: The feedback from the Alumni is as important as the feedback from students, which give valuable directions in recognising areas requiring special attention.

43. List the distinguished alumni of the department (maximum 10): None

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Prof Bhaskaran Nair, Pondicherry University has given extension lectures to the students periodically

45. List the teaching methods adopted by the faculty for different programmes.

- Interactive method for reading, writing and listening skills while computer aided teaching is used in soft skill development.



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The course being currently offered, viz. POST GRADUATE CERTIFICATE IN ENGLISH COMMUNICATION (PGCEC) has so far elicited very positive feedbacks from students. This indicates that objectives are being met.

47. Highlight the participation of students and faculty in extension activities.

The students of the programme of short duration do not get much chance for extension activities though as members of the campus community they too make use of the opportunities.

48. Give details of “beyond syllabus scholarly activities” of the department: Extension lectures periodically being given by the adjunct and visiting faculty enhance the worldview of the students.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The department is basically concentrating on training in soft skills and developing communication skills. So in equipping the students to explore frontier areas of research the Centre imparts basic skills. This comes broadly within contributions in the applied fields of knowledge.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- The main strength of the Centre is its state of the art software for instruction.
- Excellent teaching faculty,
- . Excellent curriculum and syllabus prepared by faculty having international standing.

Weaknesses

- No permanent faculty
- The paucity of space

Opportunities

- Potential to develop to a centre for excellence in foreign languages
- Potential to develop into a research centre in foreign languages



Challenges

- The main threats faced by the Centre include the ones from numerous privately run coaching centres mushrooming all over. The main task is to make people realize the difference between them and the Centre

52. Future plans of the department.

- Diploma programme in Communicative English.
- PG Programme in Communicative English.



CENTRE FOR HIGH PERFORMANCE COMPUTING

| 1. | Name of the Department | : | Centre for High Performance Computing | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|---|--|------------|--------|-----------------------------|-----------|-----|-----|-----|----------------------|-----|-----|-----|------------------|-----|-----|-----|--------|-----|-----|-----|
| 2. | Year of establishment | : | 2010 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | School of Pure and Applied Physics, School of Chemical Sciences, School of Computer Science, School of Bio Science & School of Environmental Science | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | N.A | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | M.Tech in Computer Science , School of Computer Science | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | <table border="1"> <thead> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual(including CAS & MPS)</th></tr> </thead> <tbody> <tr> <td>Professor</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Associate Professors</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Asst. Professors</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Others</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> </tbody> </table> <p>No permanent teaching faculties in CHPC</p> | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | Nil | Nil | Nil | Associate Professors | Nil | Nil | Nil | Asst. Professors | Nil | Nil | Nil | Others | Nil | Nil | Nil |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Others | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D/ M.Phil students guided fo |
|----------------------|----------------------|--------------------|-------------------------|-----------------------------------|---|
| Dr. C Sudarsanakumar | Ph.D | Professor | Bio-Physics | 22 years | |
| Dr. A S Pdmanabhan | Ph.D | Professor | Computational | 28 years | |
| Dr. CT Aravindakumar | Ph.D | Professor | Environmental Chemistry | 23 years | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: NIL

13. Percentage of classes taken by temporary faculty – programme-wise information: NIL

14. Programme-wise Student Teacher Ratio : NA

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

| | Sanctioned | Filled and actual |
|----------------------|-------------------|--------------------------|
| Technical | 2 | 1 |
| Administrative Staff | 1 | 1 |

16. Research thrust areas as recognized by major funding agencies :

- High Performance Computing, Applications in Physics, Chemistry & Biology

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. NIL

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration b) International collaboration NIL

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR,

- a) AICTE, etc.; total grants received : Nil

20. Research facility / centre

- State Recognition: Yes
- National Recognition: Yes
- International Recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate



bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 16 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 05 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 21 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil
- Citation Index – range / average: 8
- Impact Factor – range / average: 2-3
- h-index : 12

Total number of publications in International Journals

Dr. C Sudarsanakumar : 9

Dr. A S Padmanabhan : 2

Dr. C T Aravindakumar : 5

23. Details of patents and income generated : NIL

24. Areas of consultancy and income generated : NIL

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify): Nil

National committees

Inter National committees

c) Editorial Boards any other (please specify)

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programs and similar programs): Yes

28. Student projects:

| | |
|---|----|
| Percentage of students who have done in-house projects including inter-departmental projects | NA |
| Percentage of students doing projects in collaboration with other universities / industry / institute | NA |



- 29. Awards / recognitions received at the national and international level by**
- Faculty: Nil
 - Doctoral / post-doctoral fellows: Nil
 - Students : NIL
- 30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any: Nil**
- 31. Code of ethics for research followed by the departments:**
Original Licensed software are using
- 32. Student profile programme-wise:** NIL

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Nil | Nil | Nil | Nil | Nil | Nil |

- 33. Diversity of students:** NIL

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Nil | Nil | Nil | Nil | Nil |

- 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: NA**

- 35. Student progression:** NA

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | Nil |
| PG to M.Phil. | Nil |
| PG to Ph.D. | Nil |
| Ph.D. to Post-Doctoral | Nil |
| Employed | Nil |
| Campus selection | |
| Other than campus recruitment | |
| Entrepreneurs | Nil |

- 36. Diversity of staff** : No permanent Faculty



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NIL

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|----------------------|
| a) Library | Available, 390 books |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | 1 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Nil |
| f) Research laboratories | 3 |

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university:
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Each student is encouraged to implement their programme as per their computational requirement.

42. Does the department obtain feedback from

| | |
|---|-----|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Nil |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Nil |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Nil |

43. List the distinguished alumni of the department (maximum 10): NA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. : Nil

45. List the teaching methods adopted by the faculty for different programmes.: Nil

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? : Interaction with users

47. Highlight the participation of students and faculty in extension activities.: Computer education for the employees and faculties to promote free software usage.



48. Give details of “beyond syllabus scholarly activities” of the department.: Nil

49. State whether the programme/ department is accredited/ graded by other agencies? If Yes, give details: NIL

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Helps the students and Research Scholar of the University to perform Computational research effectively
- Software support
- Computer facility

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Helpful for High Computing, Parallel computing and Network computing
- Plan for Interdisciplinary Research where intensive computation is essential
- Adequate support for computation and software
- Training to staff to encourage them to Office Automation

Weakness:

- No permanent Faculty
- Adequate funding
- Not conducting any courses

Opportunities:

- High and efficient computational facility is essential for industry and quality academic research
- There are great opportunities to interact with other schools and centres to work on theory, modelling and simulation

Challenges:

- Easy access to fast computing facility to the needy people
- Install various scientific software and train the users
- Make the facility available to industry



52. Future plans of the department.

- Setup Bio-Informatics Centre.
- Purchase new scientific software and adequate training for its effective use.
- Purchasing of super computer under state grants.



CENTRE FOR YOGA & NATUROPATHY (CYN)

| | | | |
|-----|--|---|---|
| 1. | Name of the Centre | : | Centre for Yoga & Naturopathy (CYN) |
| 2. | Year of establishment | : | 2015 |
| 3. | Is the Department part of a School/Faculty of the university? | : | Yes, Instituted in the School of Gandhian Thought & Development Studies, Mahatma Gandhi University |
| 4. | Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) | : | Scheme, Syllabus & Fee structure are submitted to the University for starting a new course (Post Graduate Diploma in Yoga Education-PGDYEd) |
| 5. | Interdisciplinary programmes and departments involved | : | Interdisciplinary Scientific Research Programmes including Dept. of Lifelong Learning & Extension, School of Behavioral Sciences, School of Gandhian Thought & Development Studies, Environmental Science, and School of Social Sciences. |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | NA |
| 9. | Participation of the department in the courses offered by other departments: | : | Nil |
| 10. | Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | Nil |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years* |
|---------------------------------|---------------|---------------|---|----------------------------|---|
| Dr.C.R. Harilakshmeendra Kumar. | MA, Ph. D | Hon. Director | Gandhian Studies, Field Work, Rural Development, Social Welfare, Yoga & Naturopathy | 9 years | Ph. D. : 11 M Phil. : 16 (Gandhian Studies) |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| SL. No | Visiting Fellows, adjunct faculty, emeritus professors | Specialization |
|--------|--|--|
| 1. | Prof Dr. Dayaratna Edirisinge, Prof. Retd. (Philosophy) University of Kelania, Colombo, Sri Lanka. | Philosophy of Yoga |
| 2. | Shri Hira Ratan Manek | Surya Yoga |
| 3. | Dr. T. V. Padmanabhan, Coordinator University of Kannur | Scientific Basis and Evolution of Yoga |
| 4. | Shri. Subodh Tiwari, Kaivalyadhama Institute of Yoga, Pune. | Yoga expert |
| 5. | Sri M., Spiritual Guide, Social reformer and Educationalist | Meditation |
| 6. | Dr.T.S.Girishkumar, Prof. M.S. University, Vadodara, Gujarat | Yogic Philosophy. |
| 7. | Rev. Sr. Lucy Kurian, Executive Director, MAHER, Pune | Social Activist |

13. Percentage of classes taken by temporary faculty – programme-wise information:
Not Applicable

14. Programme-wise Student Teacher Ratio: NA
15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual): NA
16. Research thrust areas as recognized by major funding agencies

- Evolution of Yoga
- Philosophy of Yoga
- Yoga & Meditation
- Yoga & Music
- Scientific approach to Yoga
- Yoga & Naturopathy



17. Number of faculty with ongoing projects from a) national b) international funding Agencies and c) Total grants received. Give the names of the funding agencies, Project title and grants received project-wise:

- a) National : Nil
b) International : Nil
c) Total grants received: Nil

18. Inter-institutional collaborative projects and associated grants received

- a. National collaboration: Kaivalya Dhama institute of Yoga (under process)
b. International collaboration : University of Kelaniya, Sri Lanka (under process)

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

Total grants received : Nil

20. Research facility / centre with

- State recognition : Nil
- National recognition : Nil
- International recognition : Nil

21. Special research laboratories sponsored by / created by industry or corporate Bodies: Nil

22. Publications: Nil

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Name of Organization |
|---------|--------------------------------|-----------------------------------|
| 1. | Dr.C.R.Harilakshmeendra Kumar. | University of Kelaniya, Sri Lanka |

26. Faculty serving in

a. National committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------------------|------------------------------|
| 1. | Dr.C.R. Harilakshmeendra Kumar. | Member IQAC, M.G. University |

b. International committees Nil

c. Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|-------------------------------|--|
| 1 | Dr.C.R.Harilakshmeendra Kumar | <ul style="list-style-type: none"> • Member, Editorial Committee, MG University online publication • Editor of 2 books published by NIRMID |

d. Any other

| Sl. No. | Name of the faculty | Committee |
|---------|--------------------------------|--|
| 1 | Dr.C.R. Harilakshmeendra Kumar | <ul style="list-style-type: none"> • Member, BOS, Calicut University • Coordinator UGC-CPES, MG University |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)

Attended one Orientation Course, One Refresher Course and one short term course organized by the UGC ASC, University of Kerala

28. Student projects: Nil**29. Awards / recognitions received at the national and international level by Faculty**

Dr. C. R.Harilakshmeendra Kumar -GICSNA (Government of India Certified Senior Naturopath Association) National Award for the contributions rendered to the academic propagation of Yoga & Naturopathy in the national and international level.

30. Doctoral / post-doctoral fellows : Nil**31. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any**

| Sl. No. | Name of Prograamme | Source of funding | Details of outstanding participants |
|---------|---|-------------------|--|
| 01 | Inaugural seminar of CYN- National level 12 th January 2016 | M.G. University | <ul style="list-style-type: none"> • Shri. Subodh Tiwary, Kaivalyadhama Institute of Yoga, Lonawla, Mumbai, • Dr. Vinod Kool, State University of New York Polytechnic Institute, • Dr. Balarama Kaimal, Scientist, Pushpagiri Medical College, Thiruvalla. |
| 02 | Two days National Seminar on Relevance of Yoga in Modern Life on 18 th & 19 th March 2016 | M.G. University | <ul style="list-style-type: none"> • Shri. Hiara Ratan Manek, • Ms. Jessica Rani Bauer (Aix Marseille University, South France), • Prof. Dr. John Baby, • Dr.T.V.Padmanabhan, Kannur University |



| | | | |
|----|--|-----------------|---|
| 03 | Three days International Residential Seminar on Yoga for All for Health Promotion. On 10,11&12 th March 20127 | M.G. University | <ul style="list-style-type: none"> • Mrs. Murelle Ikareth, Saaram Centre for Ayurveda & Arts. • Prof.Dr.Dayaratna Edirisinghe, University of Kelaniya, Sri Lanka. • Dr. T. V. Padmanabhan, Co-ordinator, Centre for Yoga, Kannur University. • Dr.D.Nesy, Retd. Professor in Philosophy, University of Kerala. • Dr. Jobin K. Thomas DHH Pharmaceuticals, Karnataka. • Dr. Jacob Vadakkumcherry |
| 04 | Talk Series. 1 10/08/2016 | M.G. University | Sri M, Spiritual Guide, Social reformer and Educationalist |
| 05 | Talk Series 2 01/09/2016 | M.G. University | Sr. Lucy Kurian, Director, MAHER, Pune |
| 06 | Talk Series 3 14/02/2017 | M.G. University | Dr. C. Thomas Abraham, Senior Trainer, TCI International. |
| 07 | Observation of International Yoga Day on 21/06/2016 | M.G. University | Observed IYD by participating around 2000 NSS Volunteers at Baseliious College Kottayam. |

32. Student profile programme-wise: Nil

33. Diversity of students: Nil

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: Nil

35. Student progression :

| Student progression | Percentage against enrolled |
|---|------------------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Post-Doctoral | Nil |
| Employed Campus selection Other than campus recruitment | NA |
| Entrepreneurs | NA |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | 100% |
| from other universities within the State | Nil |
| from universities from other States | Nil |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil**38. Present details of departmental infrastructural facilities with regard to : *Proposed*****39. List of doctoral, post-doctoral students and Research Associates: Nil****40. Number of post graduate students getting financial assistance from the university: Nil****41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

Yes. The executive committee carried out a series of discussions and consulted external experts to initiate the various research divisions of the Centre

42. Does the department obtain feedback from

| | |
|---|----------------|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Not applicable |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | NA |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | NA |

43. List the distinguished alumni of the department (maximum 10): Nil**44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:**

There are periodic workshops and training programmes organized by the Centre. Special lectures of many visiting scholars from India and abroad were organized. Students are also encouraged to attend special lectures organized in other departments and schools.



45. List the teaching methods adopted by the faculty for different programmes: NA
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?: NA
47. Highlight the participation of students and faculty in extension activities : NA
48. Give details of “beyond syllabus scholarly activities” of the department.: NA
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.: Stress management strategies for teachers and students, impart Yoga training for NSS volunteers
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

1. Centre for Yoga & Naturopathy (CYN) stands for interdisciplinary research which involves generation and integration of knowledge for holistic healthcare management.
2. CYN is envisaged as a Centre where all branches of Science, Social Science as well as Humanities converge.
3. Presence of adjunct faculty members from various disciplines to support the research activities of the Centre.

Weakness:

1. Lack of adequate research staff.
2. Insufficient number of research supervisors.
3. Lack of adequate space.
4. Lack of sufficient provision for capacity building and advanced training for the staff.

Opportunities:

1. As the centre envisages interdisciplinary /multidisciplinary studies there is ample provision for interactions, collaborations and linkages with various institutions within India and abroad.
2. Students from other disciplines can be attracted for studies in interdisciplinary dimension, an emerging trend all over the world.
3. Opportunities to provide extension services in the local and regional levels.

4. Establishing provision for better student placements and furthering of research activities with the linkages already established.
5. Potentiality for collaborating with society oriented sustainable activities of local bodies and government.

Challenges:

1. Generation of better output with the available resource and facilities.
2. Lack of sufficient space, infrastructure and research staff.
3. Need for additional facilities for research in frontier areas.
4. Utilizing effective linkages with industries.
5. Strengthening capacity building programme of the faculty and research groups.

52. Future plans of the department

1. To develop this new institute as a centre of convergence for alternative healthcare systems.
2. To organize international / national conferences involving alternative healthcare practitioners and researchers from various parts of the world.
3. To establish short term programmes in Yoga and Naturopathy.
4. To offer short term 'Semester in India' programmes for aspiring international students.



INSTITUTE FOR CONTEMPORARY CHINESE STUDIES (ICCS)

| 1. | Name of the Department | : | Institute for Contemporary Chinese Studies (ICCS) | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--------|---|--|------------|--------|-----------------------------|-----------|-----|-----|-----|----------------------|-----|-----|-----|------------------|-----|-----|-----|--------|-----|-----|-----|
| 2. | Year of establishment | : | 2011 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Sciences | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | NA | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | Semester | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | <ul style="list-style-type: none"> Course modules on China Studies have been introduced at the Post Graduate level jointly with the School of International Relations and Politics as well as other academic departments. M.Phil Programme on Chinese Studies has already been initiated and research programmes are being finalized. | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) | : | <table> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual(including CAS & MPS)</th></tr> <tr> <td>Professor</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Associate Professors</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Asst. Professors</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> <tr> <td>Others</td><td>Nil</td><td>Nil</td><td>Nil</td></tr> </table> | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | Nil | Nil | Nil | Associate Professors | Nil | Nil | Nil | Asst. Professors | Nil | Nil | Nil | Others | Nil | Nil | Nil |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Others | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. /M.Phil students guided for the last 6 years |
|--------------|--------------------|-------------|--|----------------------------|--|
| Dr.C.Vinodan | M.A., M.Phil, Ph.D | Director | International Relations, China Studies and Development Studies | 12 | Ph.D-5 awarded 8 ongoing M.Phil-8 awarded |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| | |
|-----|--|
| 1. | Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, Guangzhou, China |
| 2. | Ambassador Vinod C. Khanna |
| 3. | Sri. Muraleedharan Nair, formerly Indian Counsel General, the Indian Mission at Guangzhou, Guangdong of China |
| 4. | Dr. Srikanth Kondapalli, Professor of Chinese Studies, Jawaharlal Nehru University, New Delhi |
| 5. | Mr. Yinghong Huang, Associate Professor, School of International Relations, Sun Yat-sen University, Guangzhou, China. |
| 6. | Li Mingquan, Professor& Vice –President, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 7. | Alkha Acharya, Professor & Director, Institute of Chinese Studies, New Delhi. |
| 8. | Sanjay K. Jha is Professor and Dean, School of International Studies, Central University of Gujarat. |
| 9. | Yue Zhaomin, Associate Professor, Sichuan Academy of Social Sciences, China. Faculty and Secretary General of the "Centre for India Studies", SASS, China. |
| 10. | Chen Jinying, Associate Professor, School of International Relations & Public Affairs, Shanghai International Studies University 550 Dalian Road(West), Shanghai, China 200083 |
| 11. | Ji Mengxue, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 12. | Amb. Rajiv Bhatia, Former Director , ICWA, New Delhi |



| | |
|-----|--|
| 13. | Mohanan B. Pillai is Professor, Department of Politics and International Studies, Pondicherry University. |
| 14. | Li Jingfeng, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 15. | Nie Wenjuan, Associate Professor, Institute of International Relations, China Foreign Affairs University. |
| 16. | Arvind Kumar, Professor and Head, Department Geopolitics and International Relations & Head, Manipal Centre for Asian Studies, Director, STUDY ABROAD PROGRAM, Manipal University, Manipal – 576104, Karnataka, India, |
| 17. | Chen Jixiang, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 18. | Gopalji Malviya is former Professor and Head, Department of Defence and Strategic Studies, University of Madras. |
| 19. | Prof Nalini Kant Jha is Dean, School of Social Sciences & International Studies and Director, Southern Asia Studies Programme at Pondicherry University, Puducherry. |
| 20. | Prof. Tej Pratap Singh, Department of Political Science, Banaras Hindu University, Varanasi. |
| 21. | Mahesh Ranjan Debata, Centre for Inner Asian Studies, School of International Studies, Jawaharlal Nehru University, New Delhi. |
| 22. | W. Lawrence S. Prabhakar, Associate Professor, Department of Political Science, Madras Christian College, Chennai |
| 23. | Prof. M.J.Vinod, Department of Political science, University of Bangalore. |

13. Percentage of classes taken by temporary faculty : Nil

14. Program wise Student Teacher Ratio : Nil

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Nil

16. Research thrust areas as recognized by major funding agencies: Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil

b) International collaboration:

- Jinan University, Guangzhou, China.
- Institute for Chindian Studies, Jinan University, Guangdong Province, China.



- Catholic University of Korea (CUK), Seoul.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

- Rs. 25.00 Kerala Government
- Rs. 25.00 UGC

Total grants received: ₹ 50 Lakhs

20. Research facility / centre with : Nil

- ❖ State recognition
- ❖ National recognition
- ❖ International recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 17 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 15 |
| 4. | Chapters in Books | 9 |
| 5. | Edited Books | 4 |
| 6. | Books authored with ISBN | 4 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 49 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) -- Nil
- Citation Index – range / average
* SNIP -- Nil
- SJR
- Impact Factor – range / average
- h-index Nil



23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

- Dr. C. Vinodan, Director, ICCS participated in the 2016 Sino-Indian Cross Cultural Dialogues held by the Institute of Advanced International Studies, **Sun Yat-sen University, Guangzhou, China** during 17-19 June ,2016.
- Dr. Raju K. Thadikkaran, Former Director ICCS jointly with Dr. K.M Seethi, Dean, Faculty of Social Sciences, Mahatma Gandhi University participated in the International Conference on Buddhism and World Culture organized by Jinan University, China as well as in a One Day Colloquium on the theme India and South Korea
- Dr. Raju K. Thadikkaran, Former Director of the ICCS visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

| Name of the Body/Society | Nature of Affiliation |
|--|------------------------------|
| International : | |
| International Studies Association (USA) | Member |
| Human Security Institute(Canada) | Associate |
| International Journal of Public Policy (UK) | International Reviewer |
| National: | |
| Institute of Defence Studies and Analysis(New Delhi) | Associate Member |
| All India Political Science Association | Life Member |
| Indian Association for Canadian Studies | Life Member |
| Editorial Boards: | |
| Journal of Human Security(Canada) | Editorial Board Member |
| Journal of Challenges in Sustainability (Switzerland) | International Reviewer |
| South East Asian Journal of Social and Political Issues (Indonesia) | Editorial Board Member |
| Indian Journal of Politics and International Relations (India) | Associate Editor |



| | |
|--|------------------|
| Association of Asia Scholars | Associate Member |
| South Asian Journal of Diplomacy (India) | Associate Editor |
| Any other : | |
| Board of Studies in International Relations and Politics, Mahatma Gandhi University | Member |
| Board of Studies in Political Science, Kannur University | Member |
| Board of Studies in Political Science, Kerala University | Member |
| Board of Studies in Political Science, Maharajas College (Autonomous College), Ernakulum | Member |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

- Organised a one day international symposium on Political Transformation and Development in India and China on 18 August 2016 under the auspices of ICCS & SIRP, Mahatma Gandhi University.
- The ICCS organized an International Symposium on the theme Political Transition in China and the United States – Implications for India on 28 February 2013 jointly with the KPS Menon Chair.

28. Student projects : NA

- percentage of students who have done in-house projects including inter-departmental projects:100%
- percentage of students doing projects in collaboration with other universities /industry / institute : Nil

29. Awards / recognitions received at the national and international level by : Nil

- Faculty
- Doctoral / Post-doctoral fellows
- Students

30. Seminars/ Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any:

Scholar-in-Residence

- Hosted Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, Guangzhou, China as the KSHEC sponsored Erudite Scholar-in-Residence during January 2011. Prof. Jia delivered a series of Lectures on the themes: Urbanisation and Social Development in China; Ethnic and Minority Question in China Today; Religion in the Contemporary China; Sino – Indian Relations: Issues and Challenges; One Country, Two Systems and the Taiwan Question.



Diplomat Lecture

- Invited Diplomat Lecture by Ambassador Vinod C. Khanna on the theme *Rise of China: Implications for the Rest of the World* jointly with the Public Diplomacy Division of Ministry of External Affairs (MEA), New Delhi.
- Invited Diplomat Lectures by Sri. Muraleedharan Nair, formerly Indian Counsel General, the Indian Mission at Guangzhou, Guangdong of China during November 2015.

Visiting Scholar

- Dr. Srikanth Kondapalli, Professor of Chinese Studies, Jawaharlal Nehru University, New Delhi associated with the ICCS as a Visiting Scholar for 10 days during March 2015.
- Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, China associated with the ICCS as a Visiting Scholar for 30 days during March 2015
- Visiting Scholar Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, China served Visiting Scholar at ICCS for 2 weeks during January 2016.

Special Lecture

- ICCS conducted series of Invited Special Lectures by Dr. Srikanth, a scholar from Peking University, China during November 2015
- **Seminars/Symposia/Conferences Organized by the Centre (Give details) recommendations and proposed follow-up**
- The ICCS organized a Symposium on the theme *China and the Emerging World Order: Is Peaceful Rise Possible?* on 23 December 2011 jointly with the KPS Menon Chair, School of International Relations and Politics, Mahatma Gandhi University
- The ICCS organized a major International Conference on China (CoC 2012) during 1-3 November 2012 on the theme **The Rise of China: Policy Parameters and Prospects** jointly with the Indian Council of World Affairs (ICWA), New Delhi, Association of Asian Scholars (AAS), New Delhi and the Institute of Chinese Studies (ICS), New Delhi
- The ICCS organized a major National Seminar on the theme “**Understanding China: Indian Perspectives**” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP and the Chennai Centre for Chinese Studies during February 2015. It was attended by around 20 invited scholars.
- The ICCS organized another major Conference on the theme “**Engaging Diaspora**” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP during March 2015.
- ICCS Associated with an International Conference on '**Understanding Contemporary India**' organized by the Rajiv Gandhi Chair for Public Policy Studies, School of International Relations and Politics & University Centre for International Co-operation, Mahatma Gandhi University during 14-15 January 2016.

- The ICCS organized a major International Conference on the theme “**India, China and The New Silk Road Initiatives: Challenges and Opportunities**” jointly with the School of International Relations and Politics during 11-12 November 2016. 8 Scholars from China and around 30 Scholars from different part of India participated and presented papers in the conference.

31. Code of ethics for research followed by the departments : Nil

32. Student profile programme-wise: NA

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Nil | Nil | Nil | Nil | Nil | Nil |

33. Diversity of students : NA

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Nil | Nil | Nil | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise : NA

35. Student progression:

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | Nil |
| PG to M.Phil. | Nil |
| PG to Ph.D. | Nil |
| Ph.D. to Post-Doctoral | Nil |
| Employed | |
| <input type="checkbox"/> Campus selection | Nil |
| <input type="checkbox"/> Other than campus recruitment | |



36. Diversity of staff : Nil

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | Nil |
| From other universities within the State | Nil |
| From universities from other States | Nil |
| From universities outside the country | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to: NA

- Library
- Internet facilities for staff and students
- Total number of class rooms
- Class rooms with ICT facility
- Students' laboratories
- Research laboratories

39. List of doctoral, post-doctoral students and Research Associates: Nil

- from the host institution/university
- from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology : Nil

42. Does the department obtain feedback from :

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? : NA
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? : NA
- Alumni and employers on the programmes offered and how does the department utilize the feedback? : NA

43. List the distinguished alumni of the department: Nil

44. Give details of student enrichment programmes (special lectures / workshops /



seminar) involving external experts:

Seminars/Symposia/Conferences Organized by the Centre :

- The ICCS organized a Symposium on the theme ***China and the Emerging World Order: Is Peaceful Rise Possible?*** on 23 December 2011 jointly with the KPS Menon Chair, School of International Relations and Politics, Mahatma Gandhi University
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45. **List the teaching methods adopted by the faculty for different programmes:** Problem based learning, Flipped class rooms, group discussions, seminars etc..
46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :** through student feedback system
47. **Highlight the participation of students and faculty in extension activities:** Nil
48. **Give details of “beyond syllabus scholarly activities” of the department :** The centre conducts awareness campaign on Chinese studies and collaborate with other institutions for conducting such programmes)
49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:** UGC (The centre was established under the UGC area



study scheme. UGC conducts annual evaluation of the centre)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The ICCS has been able to generate a very good awareness on the significance and rational of Chinese Studies among students, teachers and researchers. Further, the ICCS has been quite successful in initiating a dialogue among scholars, academics, diplomats and policy makers on the issues and concerns as well as opportunities associated with Chinese studies in general and Sino-Indian relations in particular.

The ICCS has been able to produce a number of papers presented by academics, policy makers and diplomats, reflective of their knowledge and expertise on China which will be of immense value to the students, research scholars, teachers and academics and will be of immense relevance to the policy making, as well. Most of these papers and presentations will be published shortly.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths/Opportunities

- Leading centre in China studies in South India
- Only UGC approved centre for Chinese studies in South India
- Scope for more collaborative research programmes and MOUs
- More opportunities for Faculty and student exchange programmes
- Understanding the best practices in Chinas development models

Weaknesses/Challenges

- Absence of adequate support staff
- Shortage of Faculty and research staff
- Absence adequate trained Chinese language teachers and research staff
- Limited office space and classrooms
- Financial constraints

52. Future plans of the department.

- The ICCS proposes to enter into collaboration with few major institutions from China shortly.
- Semester Abroad Study Program whereby students from Mahatma Gandhi University will spend one semester in China and will specialize in course modules related to China. On the other hand, Chinese students will spend one semester in Mahatma Gandhi University, focusing on India studies.



- International Conference on the theme Internationalization of Higher Education in India and China: Challenges and Opportunities during 2016-17.
- International Summer School on India and China on the theme The Rise of China and India: Socio-Cultural Milieu of India and China
- Initiate M.Phil/Ph.D programs on Chinese studies in association with SIRP.
- Collaborative research programs with reputed institutions from abroad
- Initiate certificate and language courses in Chinese language for the Students, Faculty, Researchers and the Public;
- Initiate various programs for creating awareness on China and Chinese Studies;
- To initiate collaborative research programs in the areas of higher education reforms, development models, local governance, urbanization, Chinas global engagements etc. with Chinese and other foreign universities;



INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES (IIRBS)

| | | | | | | |
|--|---|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Institute for Intensive Research in Basic Sciences (IIRBS) | | | |
| 2. | Year of establishment | : | 2008 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc.) | : | 1. Integrated MSc. 2. Integrated PhD | | | |
| 5. | Interdisciplinary programmes and departments involved | : | 1. Integrated Interdisciplinary MS Programme 2. Integrated Interdisciplinary PhD Programme (MSc.+PhD) | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Choice based Credit Semester System (CBCSS) | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | Nil | Nil | Nil |
| | | | Associate Professors | Nil | Nil | Nil |
| | | | Asst. Professors | Nil | Nil | Nil |
| | | | Others | Nil | Nil | Nil |
| No permanent teaching faculties in IIRBS | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 4 years |
|----------------------------------|---------------|---|-------------------------|----------------------------|--|
| Prof (Dr.) I. Ibnusaud | MSc, PhD | Professor & Director | Chemistry | 26 | 3- PhDs |
| Dr. Savitha Pillai. | MSc.PhD | Research Assistant Professor | Chemistry | - | - |
| Dr. Shine Joseph | MSc.PhD | Research Officer | Chemistry | 6 | - |
| Prof. (Dr.) Rajan Gurukkal P. M. | PhD | Former Vice Chancellor, M.G. University | Social sciences | 35 | - |
| Prof. J. G. Ray | MSc.PhD | Professor | Ecology & Ecotechnology | 30 | - |
| Dr. K. Indulekha | PhD | Professor | Astrophysics | 26 | - |
| Dr. Linu Mathew | PhD | Asst. Professor | Biosciences | 15 | - |

12. List of senior Visiting Fellows, Adjunct faculty, Emeritus professors:

Distinguished Consulting Research Professors

| Sl No | Name | University/Institute |
|-------|---------------------|---|
| 1 | Prof. Alain Berthod | Institute des Sciences Analytiques, Universite de Lyon – France |
| 2 | Prof. Anil J Elias | (Dept.Of Chemistry - IIT Delhi) - Awarded " INSA teachers awards 2012 " by Indian National Science Academy for excellence in teaching science & inspiring students. |



| | | |
|----|-----------------------------|---|
| 3 | Prof. Bakthan Singaram | Dept of Chemistry and Biochemistry - University of California, California |
| 4 | Prof. H. B. Khagan | Universite Paris-Sud, Orsay, France |
| 5 | Prof. Narayan S Hosmane | Dept. Of chemistry & Biochemistry - Northern Illinois University, USA |
| 6 | Prof. Vijay A. Singh | National Co-ordinator, Science Olympiads, Homi Bhabha Centre for Science Education, Mumbai |
| 7 | Prof. K. K. Balasubramanian | Professor, IIT Madras |
| 8 | Prof. I. N. N. Namboothiri | Professor, IIT Mumbai |
| 9 | Prof. P. J. Sebastian | Senior Scientist, Energy Research Center-UNAM, Mexico |
| 10 | Prof. M. S. Gopinathan | Professor, IISER, Trivandrum |
| 11 | Prof. Prasad L Polvarappu | Professor of chemistry - Vanderbilt University, Nashville |
| 12 | Dr. Thomas J Colacot | Research & Development Manager, Homogeneous catalysis - New Jersey, USA) awarded the RSC's Applied Catalysis Award – 2012 |
| 13 | Prof. Hassan Y. AboulEinen | National Research Centre, Cairo, Egypt 1-2-2014 |
| 14 | Prof. S. Chandrasekharan | IISc, Bangalore |
| 15 | Prof. Sankaran Subramanian | Rtd. Professor, IIT Madras |
| 16 | Prof. Radha V. Jayaram | ICT, Mumbai |
| 17 | Prof. Syed Akheel Ahmed | Dean, faculty of science and technology - University of Mysore, Mysore |
| 18 | Prof. K. G. Suresh | Dept. of Physics - IIT Mumbai |

Guest Faculty

| Sl No | Name | University/Institute/designation |
|-------|----------------------------------|---|
| 1 | Dr. A SalahuddinKunju | (Chemistry- PhD, Rtd.Professor) \ |
| 2 | Dr. C.S. Menon | (Physics - MSc.PhD - IIT, Madras) |
| 3 | Dr.Cyriac Thomas | (MA. Ph.D) Former Vice-Chancellor |
| 4 | Dr.G.Krishnan | (Chemistry- PhD, Rtd.Professor) |
| 5 | Dr. M. George | (Chemistry- MSc. Ph.D-IIT Madras) |
| 6 | Dr.Madhavan Pillai | (Chemistry - MSc.PhD, Wayne State University, Detroit) |
| 7 | Dr.Mankulam Krishnan Namboothiri | (Biology - MSc.Ph.D) |
| 8 | Dr. Manoj Ramavarma | (Physics - MSc.PhD, IIT, Madras) |
| 9 | Dr. N. Gopakumar | (Physics - MSc.Ph.D) |
| 10 | Dr.Nishanth Nair | (Chemistry-PhD, IIT Kanpur) |
| 11 | Ms . O. V Usha | (English - M.A) Poet and novelist (creative writing) |
| 12 | Dr. P. S. Anjana | (Physics - MSc.Ph.D) |
| 13 | Dr.PrathapanSreedharan | (Chemistry - Ph.D- IIT Kanpur) |
| 14 | Dr. S. Krishnakumar | (English- PhD, Rtd.Principal S.D College Alleppey) |
| 15 | Dr.ShereenRatnakar | (Archiology- Rtd. Professor Jawaharlal Nehru University) |
| 16 | Dr.Swaminathan | (Chemistry - Ph.D- IIT Kanpur) |
| 17 | Dr. T. Emilia Abraham | (Biology - MSc.Ph.D) Rtd. Director Grade scientist CSIR,TVM |
| 18 | Dr. T. N Vasudevan | (Physics- PhD, Rtd. Professor) |
| 19 | Dr. T. N. Suresh Kumar | (Chemistry - MSc. Ph.D , IIT Madras) |
| 20 | Dr. T.R. Sivakumar | (Mathematics - Ph.D, IIT, Madras) |
| 21 | Dr. V R Parameswaran | (Chemistry - Ph.D- IIT Madras) |
| 22 | Dr. Varghese Abraham | (English M.A.,MPhil, PhD) |
| 23 | Dr. Vineesh Vijayan | (Chemistry-PhD, IISER TVM) |

13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programme | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|-----------------|---------|---------|---------|---------|---------|---------|
| Integrated MS | 80% | 80% | 80% | 80% | 80% | 80% |
| Integrated Ph.D | | | | | | |

14. Programme-wise Student Teacher Ratio

| | |
|---------------|---|
| Integrated MS | Most of the classes are managed by visiting/Guest/Temporary faculty |
|---------------|---|

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Administrative Staff: 2, Academic support staff: 6

16. Research thrust areas as recognized by major funding agencies:

Towards the utilization of regional resources for value added products following molecules have been identified from locally available plant sources and employed them in the broad area of Chirotechnology.

- Synthesis of Natural products
- Exploration of Chiral pool for industrially potential molecular entities like chiral stationary phases, chiral molecular sensors etc.
- Design and synthesis of chiral auxiliaries and catalysts.
- Self-assembling and replicating molecules-supra molecular chemistry.
- Chiral nano materials
- Chemistry of enedienes pertaining to the synthesis of anti-cancer drugs.
- Origin of chirality.
- Natural product exploration.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) national

| Sl No | Title of Project | Funding Agency | Grants received in Lakhs |
|-------|---|---|--------------------------|
| 1 | Synthesis of few Medicinally Important Chiral Molecules Derived from Renewable Resources | DST, Govt. of India, Project No.SR/S1/OC-98/2012–dated 07.03.2013 | 55.00 |
| 2 | Ex-chiral pool synthesis towards few molecules of Anticancer & Anti-tuberculosis Likeness | CSIR Project No.02(0101)/12/EMR – II dated 31.10.2012 | 30.0 |
| | | TOTAL | 85.00 |

b) International: Nil

c) Total grants received: ₹ 85.00 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration Nil

b) International collaboration Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

| Sl No | Title of Project | Funding Agency | Grants received |
|-------|--------------------------|---|-----------------|
| 1. | KCSTE under SARD Project | KCSTE under SARD Project Order No.524/2014/KCSTE dated 04.10.2014 | 30.00 |

Total grants received: ₹ 30 Lakhs

20. Research facility / centre with

- state recognition : Yes
- national recognition : Yes
- international recognition : Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 08 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 04 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 12 |

**23. Details of patents and income generated : 2- Nil (2011-2015)**

| Sl. No. | Details of the patent | Income Generated |
|---------|--|------------------|
| 1 | Ibrahim Ibnusaud and Sarath Muralidharan Pillai. Enatiopure total synthesis of indolizinoindole alkaloid (+)harmicine and (-) harmicine from (2S,3R)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid (Hibiscus acid) and (2S,3S)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid(Garcinia acid) Indian Patent No.3682/CHE/2016. | Nil |
| 2 | Synthesis of (R)-(+)- Crispine A and (S)-(-)- Crispine A from(2 S ,3 R)- and (2 S ,3 S)-Tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acids, Divya Sadasivan Nair, Deenamma Habel and Ibrahim Ibnusaud, Indian Patent No.3484/CHE/2016 | Nil |

24. Areas of consultancy and income generated: Not offering any consultancy services.

25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad

International

| Sl. No. | Name of the university/industry/ meeting | Date | Details |
|---------|--|--|---|
| 1 | The State University of New Joursey, NJ, US | June 15 th -19 th 2014 | B NMR Spectroscopy Based Mechanistic Insight into Reduction Reactions of Hydroxyacid esters” BORON AMERICAS XIV (BORAM), Rutgers, to be held on. Chaired a session and presented a paper. |
| 2 | ACS Meeting Dallas, Texas | March 16-20, 2014 | “Synthesis of enantiopure 3-substituted, 3, 4-disubstituted pyrrolidinediones and related isoquinoline alkaloid”; Divya S. Nair, DeenammaHabel, Grace Thomas,and Ibrahim Ibnusaud, |
| 3 | 24 th International symposium on chiral Discrimination ISCD24, Fort Worth, Texas | June 10-13, 2012 | Ex-Chiral pool synthesis of Chiral 4-(2-Hydroxyethyl) pyrrolidine-3-ol: a potent anti-tuberculosis agent, Ibrahim Ibnusaud, |
| 4 | Boron Americas XIII, Purdue University USA | June 3-9 2012 | Semi synthetic production of potential enantiomerically pure molecules employing Boranes and Borohydride Reagents, I.Ibnusaud*, HSimimole, Divya S Nair and K.C Sachin Raj |

| | | | |
|---|---|---|---|
| 5 | University of Liverpool, Liverpool, UK, (ISCD – 2011) | 10 th July to 13 th July 2011 | A novel class of chiral phosphine ligand based on (2S,3S) – Tetrahydro-3-hydroxy-5-oxo-2,3-furan dicarboxylic acid, I.Ibnusaud, S. Anumol and AshnaShaji. |
|---|---|---|---|

26. Faculty serving in

a. National committees

| Name of the faculty | Committee |
|---------------------|---|
| Dr. I. Ibnu Saud | <ol style="list-style-type: none"> 1. Life Member, Indian Association of Chemistry Teachers, (IACT), Mumbai 2. Life Member, Chemical Research Society of India (CRSI), Bangalore. 3. Member Executive Council Indian Association of Chemistry Teachers, Homi Bhabha Centre for science Education (TIFR), Mumbai. (IACT). |

a) International committees: Nil

b) Editorial Boards: Nil

c) any other

| | |
|------------------|---|
| Dr. I. Ibnu Saud | <ol style="list-style-type: none"> 1. Member, Board of studies of MSc. Chemistry, School of Chemical Sciences, M. G. University. 2. Member, Board of studies of MSc. Chemistry (PG) in M. G. University |
|------------------|---|

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): Nil

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects :100
- / percentage of students doing projects in collaboration with other universities industry / institute

29. Awards / recognitions received at the national and international level by

- Faculty

| Name of Faculty | Details |
|------------------------|--|
| Prof (Dr.) I. Ibnusaud | <ul style="list-style-type: none"> Invited as Distinguished Invited Scientist,(BrainKorea-21) by Functional Materials Division, Pusan National University, Busan, Korea(Oct.-Jan.2006) Scientific observer to the Indian team of 38th International Chemistry Olympiad held at Gyeongsan, Korea during July 2nd-11th, 2006 Best paper award for the paper presented in 'Chirality 2004' held at New York University, New York U.S.A.(2004). |



- Doctoral / Post-doctoral fellows : Nil
- Students

| Name of Students | Details |
|---|--|
| Students Achievements – Academic | <ul style="list-style-type: none"> • Indian Academy of Science (IAS) fellowship (SRF) • IAS Scholars -4 • NIUS Scholars - 8 • NIUS Chemistry Camp, (HBCSE,TIFR)-14 • INSPIRE -8 • KVPY -1 • S N Bose Scholarship-1 • (Indo-US) -1 |

30. Seminars/ Conferences/Workshops organized and the source of funding (national International) with details of outstanding participants, if any:

| Sl No. | Workshop/Seminar | Resource Person |
|--------|--|---|
| 1. | One day International Symposium on Concurrent methodologies in Organic Synthesis - in honour of Prof.Ei-ichiNegishi(2010 Chemistry Nobel Laureate, Purdue University , USA) on 13 th February 2016 | Prof.Ei-ichiNegishi (2010 Chemistry Nobel Laureate, Purdue University , USA) Prof. H. Junjappa, INSA – Senior Scientist, Dr. S. Chandrasekaran, IISC, Bangalore Dr. Ganesh Pandey, Director,CBMR, Lucknow Dr. T. V. RajanBabu, Professor, Ohio State University, USA Dr. A. Ajayagosh, Director, NIIST, Trivandrum Dr. Thomas J. Colocat, Johnson Matthey Co USA, Dr. H. Ila, JNCASR, Bangalore Dr.SrivariChandrashekar,Director, IICT, Hyderabad Dr. M. Periasamy, Vice chancellor, Hyderabad Central University Dr. I. N. N. Namboothiri, Professor, IIT , Mumbai |
| 2. | National Workshop on "NMR Spectroscopy", 10 th - 13 th September 2014. | Prof. C. L. Khetrapal (CBMR, Lucknow) Prof. S. Subramanian (IISER, Trivandrum) Prof. N. Chandrakumar (IIT, Madras) Prof. S. Ganapathy (NCL, Pune) Prof.Sankararaman (IIT, Madras) Prof. I. N. N. Namboothiri (IIT, Mumbai) Dr.Raghav G Mavinkurve (Bruker, Bangalore) Dr.Vineshviyan (IISER, Trivandrum) Dr. Christy George (IIT, Madras) |
| 3. | Lecture series on "Liquid Chromatography", 9 th - 18 th December 2013. | Prof. Alain Berthod (Institute des Sciences Analytiques, Universite de Lyon - France) |

| | | |
|-----|--|---|
| 4. | Workshop on High Performance Liquid Chromatography (HPLC), 4 th & 5 th November 2013. | Dr. V. Gaitonde (Scientist, ProchromeLtd.,Mumbai) Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry , National Research Centre , Egypt) Prof. Imran Ali (JamiaMilliaIslamia - Central University, New Delhi) |
| 5. | Lecture on "High Performance Liquid chromatography(HPLC), 4 th - 12 th November 2013. | Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry, National Research Centre , Egypt) |
| 6. | Workshop on High Performance Liquid Chromatography (HPLC), 30 th April – 2 nd May 2013. | Dr.Gurubsavaraj H.M.(Waters, Bangalore) |
| 7. | Workshop on "Nuclear Magnetic Resonance: Theory and Application", 24 th - 26 th January 2013. | Dr. S. Ragothama Dr.Hanudatta S Atreya Prof. K.V. Ramanathan Prof. N. Suryaprakash (NMR Research Centre - Bangalore) |
| 8. | Lecture on "Boron based organic chemistry",7 th - 19 th January 2013. | Prof. Bakthan Singaram (Dept of Chemistry and Biochemistry - University of California, California) |
| 9. | Lecture on "Boron and Gadolinium Neutron Capture Therapy for cancer treatment",16 th -17 th December 2012. | Prof. Narayan S Hosmane (Dept. Of chemistry & Biochemistry - NorthernIllionis University, USA) |
| 10. | Lecture on "Organometalic and Bio-inorganic Chemistry",10th-14th December 2012 | Prof. Anil J. Elias (Dept. of Chemistry - IIT Delhi) |
| 11. | Lecture on "Structural Topology Optimization with applications in structural engineering and biomechanics",12 th December 2012. | Prof. Helder Rodrigues (Instituto Superior Tecnico, Dep. of Mechanical Engineering, Libon, Portugal) |
| 12. | Symposium on "Thoughts on Traditional and Genome based Human History" 6th November, 2012. | Prof.RjanGurukkal (Former Vice Chancellor, M. G. University) DR. R. M. Pitchappan (Director,CARE, Chennai) Shri. E. Kunjikkrishnan (Univeristy College, TVM) Dr. M. R. Rakhava Warrior (Rtd. Professor, Calicut University) |
| 13. | Advanced Materials Characterization Techniques, May 21st - 25th,2012 | Prof. K. G. Suresh (IIT, Mumbai) Prof.UnnikrishnanNayar (IISER, Trivandrum) Dr. Manoj Ramavarma(NIIST, Trivandrum) |



| | | |
|-----|--|--|
| 14. | Seminar on Research and Development in Chemical Process Development, 22 nd Sept., 2012 | Prof. S.D Samanth, ICT, Mumbai |
| 15. | Application of Magnetic Resonance Spectroscopy in scientific research., 10 th Sept. 2012 | Prof. K.V. Ramanathan, IISc, Bangalore |
| 16. | Seminar on Metal Mediated Organic Synthesis, 4 th Sept. 2012 | Prof. I.N.N. Namboothiri, Dept. Chemistry, IIT Delhi |
| 17. | Patenting research findings, 10 th August., 2012 | Dr. Syriac Joseph, Palco consultants, UK |
| 18. | Seminar – A review on Renewable Energy Technologies, 17 th July., 2012 | Dr. P. J Sebastian, senior Scientist, CIE, UNAM, Mexico |
| 19. | Talk - Organic Chemistry and Pharmaceutical Industry, 24 th April, 2012 | Prof. K K. Balasubramaniam, IIT Madras (Retd.) |
| 20. | Seminar on Application of two dimensional NMR in the structural elucidation of biomolecule | Dr. Vineeshvijayan, IISER, TVM |
| 21. | Summer Workshop on Computational chemistry, May 28th - 31st, 2012 | Prof. R. B. Sunoj, Dept. of chemistry, IIT Mumbai Prof. Nishanth N. Nair, Dept. of chemistry, IIT Kanpur |
| 22. | Workshop on Advanced Materials Characterization Techniques, 21st - 25th May, 2012 | Prof. V. Unnikrishnan Nayar, IISER, Trivandrum Dr. S. Savitha Pillai, DST Fast track Research Scientist, NIIST, Trivandrum Dr. Manoj Raama Varma, Principal Scientist, NIIST, Trivandrum Prof. K.G. Suresh, Department of Physics, IIT, Mumbai |
| 23. | Science Academies' Lecture Workshop on Quantum Mechanics, Molecular- Resonance Spectroscopy and Hands-on Experience in Spectroscopy, March 1 – 3, 2012 | Prof. M. S. Gopinathan, IISER, TVM Prof. K.L. Sebastian, IISc, Bangalore Prof. Mangala Sunder, IIT, Madras Prof. Ramasesha, IISc, Bangalore Prof. T.N Vasudevan, Calicut University Prof. N. Chandrakumar, IIT, Madras Dr. Christy George, IIT, Madras Dr. Ayan Datta, IISER, TVM |
| 24. | English Language Skill Workshop, December 22 – 23, 2011 | District Centre for English (DCE - Neyyattinkara) |
| 25. | Seminar on Genetic Structure of Indian Jewish | Dr. Mini Kariappa, Dept. Anatomy, Medical college, Kolencherry |

| | | |
|-----|--|---|
| | Diaspora, October 27 – 28, 2011 | |
| 26. | Workshop on Organometallic Chemistry, August 23- 26, 2011 | Prof. Anil J. Elias, IIT Delhi |
| 27. | Seminar associated with New student orientation programme, Sept.02, 2011 | Dr. Suresh Das, Director, NIIST, TVM Dr. Manoj Ramavarma , Scientist, NIIST, TVM |
| 28. | Workshop on Basic Principles and Applications of Computational Chemistry, May 23- 27, 2011 | Prof. R.B. Sunoj, IIT Mumbai Prof. A. Anoop, IIT Kharagpur Prof.AyanDutta, IISER Trivandrum |
| 29. | Seminar on Pharmaceutical Process Chemistry, May 17, 2011 | Dr.RajappaVaidyanathan, Chemical Research and Development Division, Pfizer, Groton, CT, USA |

31. Code of ethics for research followed by the departments:

(a) Plagiarism: It's mandatory for all master and PhD students to strictly adhere to plagiarism before submitting any manuscript to a journal. The central library of mahatma Gandhi University has most modern software to check plagiarism. Since last year the doctoral thesis of all researchers at mahatma Gandhi University needs to submit a plagiarism report in the thesis which should be less than 10%. Nevertheless, research scholars and master students are also given special training to use plagiarism software.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Integrated MSc | 534 | 7 | 7 | 100 | 100 |

33. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from outside the State | % of students from other countries |
|---|--|--|--------------------------------------|------------------------------------|
| Integrated MSc (students are admitted after Higher Secondary) | NA | NA | 3% | Nil |
| Integrated PhD | | | | Nil |



34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

| Sl. No | Year | NET/ JRF Qualified | GATE | Kerala PSC | Others |
|--------|-----------|--------------------|------|------------|--------|
| 1 | 2010-2016 | 4 | 7 | Nil | Nil |

35. Student progression:

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | 60% |
| Ph.D. to Post-Doctoral | NA |
| Employed | |
| o Campus selection | Nil |
| o Other than campus recruitment | 20% |
| Entrepreneurs | Nil |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-------------------------------|
| Of the same University | Nil |
| From other universities within the State from | 10% (Temporary faculty) |
| Universities from other States from universities | 70% (Guest/Temporary faculty) |
| Outside the country 0% | 20% (Guest faculty) |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|---|
| a) Library | Available Total Number of Books - 535 |
| b) Internet facilities for staff and students | Yes, Internet facilities available for all staff and students |
| c) Total number of class rooms | 5 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Yes |

| | |
|--------------------------|---|
| f) Research laboratories | Laboratories equipped with: <ul style="list-style-type: none"> • 400MHz BRUKER NMR • Nitrogen Gas Generator • Semi preparative HPLC with ELS Detector • Atomic Absorption Spectrophotometer • FT – IR • Microwave Digester • UV-Visible Spectrophotometer • High Speed Refrigerated Centrifuge • Low temperature bath • Lyophilizer • DC - Conductivity Measurement Facilities |
|--------------------------|---|

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

| Doctoral Fellow |
|------------------|
| Mr. Sarath, M |
| Mr. Prasanth C.P |
| Ms. Zabeera K.T |

b) from other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university:

| Programme | E-Grants | RGNF |
|----------------|---|------|
| Integrated MSc | Nil (University is providing student assistantship for managing instrumental facilities and lab) | |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

An expert faculty council meeting will study the needs of the academic community and formulate the curriculum as per the recent advances in basic sciences. The faculty council members also take views and ideas to formulate a good curriculum after having a series of discussions with national and international experts



42. Does the department obtain feedback from

| | | |
|----|--|---|
| a) | Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes, the department collects feedback from Faculty and discussions are conducted in the faculty council Meeting. |
| b) | Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes, the department collects feedback from students and discussions are conducted in the faculty council Meeting. |
| c) | Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni meetings are conducted annually and the feedback is obtained. |

43. List the distinguished alumni of the department (maximum 10)

First batch of Integrated MSc Programme (2009 - 2014)

| Sl. No | Alumni Name | Current Position |
|--------|-------------------------|--|
| 1 | Dellamol Sebastian | PhD Programme - USA (CUNY Fellowship, USA). |
| 2 | Anumol S | PhD Programme -Indian Institute of Science, Bangalore |
| 3 | Ashna Shaji | PhD Programme - Indian Institute of Technology, Madras |
| 4 | Surya K | PhD Programme -Indian Institute of Technology, Mumbai |
| 5 | Sudheesh T. S | PhD Programme - Indian Institute of Technology, Mumbai |
| 6 | Manish Kumar | PhD Programme – Indian Institute of Science Education and Research, Mohali |
| 7 | Sachin Raj K.C | Scientist, Anthem Biosciences Pvt. Ltd, Bangalore |
| 8 | Arshad Sayed M. V. | Scientist, Anthem Biosciences Pvt. Ltd, Bangalore |
| 9 | Tharique Ahammed Ansari | Selected for PhD Programme, Louisville, Kentucky, USA |
| 10 | Harikrishnan Nambiar | Selected for PhD Programme Louisville, Kentucky, USA |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

| Sl. No. | Workshop/Seminar | Resource Person |
|---------|---|--|
| 1 | Workshop on Main group and Organometallic Chemistry on October 24 – 26, 2016 | <ul style="list-style-type: none"> • Prof. Anil. J. Elais, IIT, Delhi • Dr. Rajesh Kunjan Pillai, St. Albert's College, Ernakulam |
| 2 | One day International Symposium on Concurrent methodologies in Organic Synthesis - in honour of Prof. Ei-ichi Negishi (2010 Chemistry Nobel Laureate, Purdue University, USA) on 13 th February 2016 | <ul style="list-style-type: none"> • Prof. Ei-ichi Negishi (2010 Chemistry Nobel Laureate, Purdue University, USA) • Prof. H. Junjappa, INSA – Senior Scientist, • Dr. S. Chandrasekaran, IISc, Bangalore • Dr. Ganesh Pandey, Director, CBMR, Lucknow • Dr. T. V. Rajan Babu, Professor, Ohio State University, USA • Dr. A. Ajayagosh, Director, NIIST, Trivandrum • Dr. Thomas J. Colocat, Johnson Matthey Co USA, • Dr. H. Ila, JNCASR, Bangalore • Dr. Srivari Chandrashekar, Director, IICT, Hyderabad • Dr. M. Periasamy, Vice chancellor, Hyderabad Central University • Dr. I. N. N. Namboothiri, Professor, IIT, Mumbai |
| 3 | National Workshop on "NMR Spectroscopy", 10 th - 13 th September 2014. | <ul style="list-style-type: none"> • Prof. C. L. Khetrapal (CBMR, Lucknow) • Prof. S. Subramanian (IISER, Trivandrum) • Prof. N. Chandrakumar (IIT, Madras) • Prof. S. Ganapathy (NCL, Pune) • Prof. Sankararaman (IIT, Madras) • Prof. I. N. N. Namboothiri (IIT, Mumbai) • Dr. Raghav G Mavinkurve (Bruker, Bangalore) • Dr. Vinesh Vijayan (IISER, Trivandrum) • Dr. Christy George (IIT, Madras) |
| 4 | Lecture series on "Liquid Chromatography", 9 th - 18 th December 2013. | <ul style="list-style-type: none"> • Prof. Alain Berthod (Institute des Sciences Analytiques, Université de Lyon - France) |
| 5 | Workshop on High Performance Liquid Chromatography (HPLC), 4 th & 5 th November 2013. | <ul style="list-style-type: none"> • Dr. V. Gaitonde (Scientist, Prochrome Ltd., Mumbai) • Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry, National Research Centre, Egypt) • Prof. Imran Ali (Jamia Millia Islamia - Central University, New Delhi) |



| | | |
|----|---|--|
| 6 | Lecture on "High Performance Liquid chromatography(HPLC), 4 th - 12 th November 2013. | <ul style="list-style-type: none"> • Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry , National Research Centre , Egypt) |
| 7 | Workshop on High Performance Liquid Chromatography (HPLC), 30 th April – 2 nd May 2013. | <ul style="list-style-type: none"> • Dr.Gurubsavaraj H.M. (Waters, Bangalore) |
| 8 | Workshop on "Nuclear Magnetic Resonance: Theory and Application", 24 th - 26 th January 2013. | <ul style="list-style-type: none"> • Dr. S. Ragothama • Dr.Hanudatta S Atreya • Prof. K.V. Ramanathan • Prof. N. Suryaprakash (NMR Research Centre - Bangalore) |
| 9 | Lecture on "Boron based organic chemistry", 7 th - 19 th January 2013. | <ul style="list-style-type: none"> • Prof.BakthanSingaram(Dept of Chemistry and Biochemistry - University of California, California) |
| 10 | Lecture on "Boron and Gadolinium Neutron Capture Therapy for cancer treatment", 16 th -17 th December 2012. | <ul style="list-style-type: none"> • Prof. Narayan S Hosmane (Dept. Of chemistry & Biochemistry - NorthernIllionis University, USA) |
| 11 | Lecture on "Organometalic and Bio-inorganic Chemistry", 10th-14th December 2012 | <ul style="list-style-type: none"> • Prof. Anil J. Elias (Dept. of Chemistry - IIT Delhi) |
| 12 | Lecture on "Structural Topology Optimization with applications in structural engineering and biomechanics", 12 th December 2012. | <ul style="list-style-type: none"> • Prof. Helder Rodrigues (Instituto Superior Tecnico, Dep. of Mechanical Engineering, Lisbon, Portugal) |
| 13 | Symposium on "Thoughts on Traditional and Genome based Human History" 6th November, 2012. | <ul style="list-style-type: none"> • Prof.RajanGurukkal (Former Vice Chancellor, M. G. University) • DR. R. M. Pitchappan (Director,CARE, Chennai) • Shri. E. Kunjikrishnan (Univeristy College, TVM) • Dr. M. R. Rakhava Warrior (Rtd. Professor, Calicut University) |
| 14 | Advanced Materials Characterization Techniques, May 21st - 25th, 2012 | <ul style="list-style-type: none"> • Prof. K. G. Suresh (IIT, Mumbai) • Prof.UnnikrishnanNayar (IISER, Trivandrum) • Dr. Manoj Ramavarma(NIIST, Trivandrum) |

| | | |
|----|--|--|
| 15 | Seminar on Research and Development in Chemical Process Development, 22 nd Sept., 2012 | <ul style="list-style-type: none"> Prof. S.D Samanth, ICT, Mumbai |
| 16 | Application of Magnetic Resonance Spectroscopy in scientific research., 10 th Sept. 2012 | <ul style="list-style-type: none"> Prof. K.V. Ramanathan, IISc, Bangalore |
| 17 | Seminar on Metal Mediated Organic Synthesis, 4 th Sept. 2012 | <ul style="list-style-type: none"> Prof. I.N.N. Namboothiri, Dept. Chemistry, IIT Delhi |
| 18 | Patenting research findings, 10 th August., 2012 | <ul style="list-style-type: none"> Dr. Syriac Joseph, Palco consultants, UK |
| 19 | Seminar – A review on Renewable Energy Technologies, 17 th July., 2012 | <ul style="list-style-type: none"> Dr. P. J Sebastian, senior Scientist, CIE, UNAM, Mexico |
| 20 | Talk - Organic Chemistry and Pharmaceutical Industry, 24 th April, 2012 | <ul style="list-style-type: none"> Prof. K K. Balasubramaniam, IIT Madras (Retd.) |
| 21 | Seminar on Application of two dimensional NMR in the structural elucidation of biomolecule | <ul style="list-style-type: none"> Dr. Vineeshvijayan, IISER, TVM |
| 22 | Summer Workshop on Computational chemistry, May 28th - 31st, 2012 | <ul style="list-style-type: none"> Prof. R. B. Sunoj, Dept. of chemistry, IIT Mumbai Prof. Nishanth N. Nair, Dept. of chemistry, IIT Kanpur |
| 23 | Workshop on Advanced Materials Characterization Techniques, 21st - 25th May, 2012 | <ul style="list-style-type: none"> Prof. V. Unnikrishnan Nayar, IISER, Trivandrum Dr. S. Savitha Pillai, DST Fast track Research Scientist, NIIST, Trivandrum Dr. Manoj Raama Varma, Principal Scientist, NIIST, Trivandrum Prof. K.G. Suresh, Department of Physics, IIT, Mumbai |
| 24 | Science Academies' Lecture Workshop on Quantum Mechanics, Molecular- Resonance Spectroscopy and Hands-on Experience in Spectroscopy, March 1 – 3, 2012 | <ul style="list-style-type: none"> Prof. M. S. Gopinathan, IISER, TVM Prof. K.L. Sebastian, IISc, Bangalore Prof. Mangala Sunder, IIT, Madras Prof. Ramasesha, IISc, Bangalore Prof. T.N Vasudevan, Calicut University Prof. N. Chandrakumar, IIT, Madras Dr. Christy George, IIT, Madras Dr. Ayan Datta, IISER, TVM |



| | | |
|----|--|---|
| 25 | English Language Skill Workshop, December 22 – 23, 2011 | <ul style="list-style-type: none"> District Centre for English (DCE - Neyyattinkara) |
| 26 | Seminar on Genetic Structure of Indian Jewish Diaspora, October 27 – 28, 2011 | <ul style="list-style-type: none"> Dr. Mini Kariappa, Dept. Anatomy, Medical college, Kolencherry |
| 27 | Workshop on Organometallic Chemistry, August 23- 26, 2011 | <ul style="list-style-type: none"> Prof. Anil J. Elias, IIT Delhi |
| 28 | Seminar associated with New student orientation programme, Sept.02, 2011 | <ul style="list-style-type: none"> Dr. Suresh Das, Director, NIIST, TVM Dr. Manoj Ramavarma , Scientist, NIIST, TVM |
| 29 | Workshop on Basic Principles and Applications of Computational Chemistry, May 23- 27, 2011 | <ul style="list-style-type: none"> Prof. R.B. Sunoj, IIT Mumbai Prof. A. Anoop, IIT Kharagpur Prof. Ayan Dutta, IISER Trivandrum |
| 30 | Seminar on Pharmaceutical Process Chemistry, May 17, 2011 | <ul style="list-style-type: none"> Dr.Rajappa Vaidyanathan, Chemical Research and Development Division, Pfizer, Groton, CT, USA |

45. List the teaching methods adopted by the faculty for different programmes:

- Power point presentation
- OHP teaching materials
- NPTEL lectures

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

- Feedback from students.
- Examination Evaluation reports
- Feedback from resource persons in conferences, special lectures

47. Highlight the participation of students and faculty in extension activities:

The Institute provides intellectual, instrumental as well as experimental support for pursuing excellence in all branches of sciences and is expected to contribute to the talent pool of researchers, specialized technicians and to the scientific community.

48. Give details of “beyond syllabus scholarly activities” of the department:

Arranging special coaching classes for cracking national level examinations like GATE NET CSIR etc.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Yes, our institute is listed in the Nature Index in the Institution output – Weighted Fractional count : **0.14**.

The link for more details is

<http://www.natureindex.com/institution-outputs/india/institute-for-intensive-research-in-basic-sciences-iirbs-mg-university/57870361140ba0d6628b456d>

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The institute has applied for several national and international patents. The major contributions of the institution are in the following areas.

1. Importance of solvation in understanding the chiroptical spectra of natural products in solution phase: garcinia acid dimethyl ester.
2. A single chiroptical spectroscopic method may not be able to establish the absolute configurations of diastereomers: dimethylesters of hibiscus and garcinia acids.
3. Chiroptical spectroscopy of natural products: avoiding the aggregation effects of chiral carboxylic acids.
4. Enantiomerically pure compounds related to chiral hydroxy acids derived from renewable resources.
5. Synthesis of enantiopure furo [2, 3-b] pyrroles.
6. Palladium-Catalyzed α -Arylation Reactions in Total Synthesis.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths

- Patents and Publications (National and International)
- Sophisticated Laboratories for research
- Resident learning programmes.
- Collaboration with national and international universities.
- The curriculum details, instrumentation facility and the inter-disciplinary centre are complementary and constitute the knowledge centre. Learning, knowledge creation and updating of curriculum and course structure are part of the centre's activities
- Empowerment of basic science education.
- Training programs for thematic and purposeful learning and research.
- Direct participation of the students in the operation and maintenance of the

instrumentation facility and laboratory.

- Self-evolving and auto catalytic mechanism of generation of knowledge and exploitation by the same system.
- Identifying the challenges and thrust areas, priorities of knowledge and tuning the learning process accordingly.
- Curriculum is linked with skill generation.
- Facilitator and catalyst for joint programs between different institutions of higher learning and research.
- The functioning of the centre is monitored and governed by eminent experts from outside the University.
- The centre continuously updates the knowledge base in line with international trends. The updated information is used as an input for planning and development. Training and management of IPR is part-and-parcel of the curriculum.

Weakness

- Deficiency of permanent faculty and staff.
- Lack of required infrastructure
- Non availability of Permanent power supply

Opportunities

- Prospects for higher studies and jobs are enormous for our students

Challenges

- Maintenance of the highly sophisticated instruments in time and the cost involved.

52. Future plans of the department:

- To start more academic programmes in Basic Sciences.
- To equip the institution with more sophisticated instruments.
- To generate more patents and publications in various areas of research.

K. N. RAJ CENTRE FOR PLANNING AND CENTRE-STATE RELATIONS (KNRC)

| | | | |
|----|--|---|---|
| 1. | Name of the Department | : | KN. Raj Centre for Planning and Centre-State Relations |
| 2. | Year of establishment | : | 2012 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Faculty of Social Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | MA |
| 5. | Interdisciplinary programmes and departments involved | : | <ol style="list-style-type: none"> 1. The Centre pioneers in initiating innovation and incubation activities in the University under the institutional umbrella of Business Innovation and Incubation Studies. It focuses on technology and entrepreneurship (Technopreneurship) conducts programmes that involve the School of Biosciences, School of Computer Sciences, School of Chemical Sciences, School of Pure and Applied Physics, School of Environmental Sciences, Centre for Nanotechnology, etc. 2. Open Coarse is offered as interdisciplinary programme for P G students for all the Schools. 3. The Centre conducted training programme on 'Budgeting and Legislation' with the Gulati Institute of Finance and Taxation, Thiruvananthapuram. The programme equips students to comprehend the nuances of budget making process and a visit to State legislative assembly during budget session. The significant highlight is the programme is that it offers a plat form for the State Finance minister to have post-budget interaction with the University students and faculty. |



| | | | | | | |
|---|--|---|--|------------|--------|-----------------------------|
| | | | The entire programme is interdisciplinary and is premised upon Economics, Public Policy, Political Science and Constitutional Law. | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | The training programme conducted on Budgeting and Legislation is conducted with Gulati Institute of Finance and Taxation (GIFT), Trivandrum. It also includes selected students from colleges affiliated to Mahatma Gandhi University. | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Annual/Semester/Trimester/Choice Based Credit System: Choice based Credit system –semester | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Classes offered by faculties for the courses offered by other departments | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual Professors/ Associate Professors/ Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 0 | NA | NA |
| | | | Associate Professors | 0 | NA | NA |
| | | | Asst. Professors | 0 | NA | NA |
| | | | Others | - | - | - |
| Director (Hon.)- 1; Joint Director – 1 On Contract -3 | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. Students guided for the last 6 years |
|-----------------------|----------------------|---------------------|--|----------------------------|---|
| Dr. Girish Kumar R | faculty MA, LLB, PhD | Hon. Director | International Political Economy, Entrepreneurship, International Law | 10 years | 8PhDs 10 M.Phils |
| Dr.V. Mathew Kurian | MA, PhD | Joint Director | International Trade Globalisation, Indian Economy Development | 44 years | 12 PhDs 8 PhDs produced 30 M.Phils produced |
| Dr. Jose J Naduthotty | MA, PhD | Faculty on Contract | Environment Macroeconomics Public Finance | 26 years | NIL |

| | | | | | |
|--------------------|------------|---------------------|--|----------|-----|
| N.C Jacob | MA, M.Phil | Faculty on Contract | Econometrics Mathematical Economics | 25 years | NIL |
| Mrs. Mrudula Mohan | MA | Faculty on Contract | Banking, Microeconomics International Economics | 1 year | NIL |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL

13. Percentage of classes taken by temporary faculty – programme-wise information:
M.A 90%

14. Programme-wise Student Teacher Ratio::

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| MA | 4:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual Technical Staff :

| | Sanctioned | Filled and actual |
|----------------------|------------|---------------------------------|
| Technical | 0 | 0 |
| Administrative Staff | 0 | 3 1 Permanent; 2 daily wages |

16. Research thrust areas as recognized by major funding agencies:

- Planning and Fiscal Federalism
- Decentralized Planning and Governance
- Plantation Economy of Kerala
- Health Economics
- Migration
- Free Trade and Agrarian Economy of Kerala
- Public Policy
- Political Economy
- Innovation
- Centre-State Relations
- Monitoring and evaluation of public policy



17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

a) National – 1

| | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|----|--|-----------|--------------------------------|-------------------------|
| 1. | WTO, Public Health and South Asia: A study with particular reference to India | 2016-2018 | UGC major project | 8.89 |
| 2. | Business Innovation and student start up | 2016-2017 | Govt. of Kerala | 100.00 |
| 3. | Free Trade Agreement and Agrarian Economy of India: A study with special reference to Kerala | 2010-2012 | UGC major project | 7.00 |
| 4. | Role of Institutions in the development of Plantation Agriculture. A study of Rubber producers' societies in India | 2014 | Centre for Development Studies | 0.75 |

b) International - 1

| | Project Title | Period | Funding agencies | Total Fund (RS) |
|----|---------------------------------------|---------|--|-----------------|
| 1. | Asset Management in Local Governments | 2015-16 | World Bank/ Decentralisation and Analysis Cell , Govt. of Kerala | 2.50 |

Total grants received: ₹ 119.14 Lakhs

18. Inter-institutional collaborative projects and associated grants received**a) National collaboration :**

| | Project Title | Period | Funding agencies | Total Fund (RS) |
|----|--------------------------------------|---------|--|------------------------|
| 1. | Conducting Training programmes | 2016-17 | Collaboration with Gulati Institute of Finance and Taxation, Trivandrum; | Collaborative projects |
| 2. | Participation in training programmes | 2015-16 | Institute for Studies in Industrial Development, New Delhi | |

b) International collaboration : Nil**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :**

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|-------|------------------------------------|--------|------------------------------------|-------------------------|
| 1. | ICSSR, Delhi | 2015 | ICSSR for holding national seminar | 2.5 |
| 2. | Institute of Parliamentary studies | 2015 | For conducting symposium on GST | 1 |

Total grants received: ₹ 3.5 Lakhs**20. Research facility / centre with**

- State recognition -NA
- National recognition -NA
- International recognition NA

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil



22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 23 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 10 |
| 5. | Edited Books | 4 |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 6 |
| | Total | 45 |

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. Jean Monnat Fellow, European University Institute, Florence Italy 2. Delivered lectures at Central University of Gujarat. 3. Delivered lecture at Swansea University, UK 4. Paper presented at London School of Economics |

26. Faculty serving in

a) National committees

| Sl. No. | Name of the faculty | Laboratory |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. UGC nominee to Midnapore College, West Bengal (Autonomous) |

b. International committees: NIL

c. Editorial Boards

| Sl. No. | Name of the faculty | Committee |
|---------|-----------------------|--|
| 1. | Dr. Girish Kumar R | 1. Journal of Political Economy and Fiscal Federalism 2. International Journal of Politics and International Relations 3. South Asian Journal of Diplomacy |
| 2. | Prof. Mathew Kurian | 1. Journal of Political Economy and Fiscal Federalism |
| 3. | Prof. Jose Naduthotty | 1. Journal of Political Economy and Fiscal Federalism |

d. Others:

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. Member Syndicate, University of Kerala; 2. Covener, Syndicate Subcommittee on Academics and Research, University of Kerala; 3. Board of Studies, Political Science, Kannur University; 4. Dean, International Co-operation Central University of Kerala; 5. Chairman, Board of Studies (International Relations), Central University of Kerala 6. Director (Hon.), Business Innovation and Incubation Centre, Mahatma Gandhi University |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

| Sl. No. | Name of the faculty | Name of the programme |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. Girish Kumar R., Refresher Course at JNU, Faculty Development Centre |

28. Student projects:

| | |
|---|-------------------------------|
| Percentage of students who have done in-house projects including inter-departmental projects | 100% (PG Dissertation) |
| Percentage of students doing projects in collaboration with other universities / industry / institute | Nil |



29. Awards / recognitions received at the national and international level :

e. Faculty :

| Name of the faculty | Details |
|---------------------|--|
| Girish Kumar R | 1. Jean Monnet Fellowship, European University, Florence, Italy 2010 (International Level) 2. Ministry of Trade and Commerce, WTO Chair Professor, Central University of Kerala(National Level) |

- Doctoral / post-doctoral fellows: Nil
- Student : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/ Workshops | Source of funding | outstanding participants |
|------|----------------------------------|------------------------------------|--|
| 2016 | Kerala Development Oxymora | ICSSR & Mahatma Gandhi University | CP Chandrasekhar MA Oommen Rajasekharan Nayar D Manoj Manju Nair |
| 2016 | Goods and Service Tax (GST) | Institute of Parliamentary Studies | R Mohan Anish Rajan CP Chandrasekhar |

31. Code of ethics for research followed by the departments :

The Centre at present is not conducting any research programmes. Nevertheless, the institutional etiquettes developed by the Faculty of Social Science/ Mahatma Gandhi University is applicable to all the research/academic activities of the University.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| MA | 180 | 5 | 7 | 100% | 100% |

33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students From universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| MA | 42 | 50 | | 8 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

1. SET/SLET : Nil
2. NET : 4

35. Student progression:

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | Nil |
| PG to M.Phil. | 25% |
| PG to Ph.D. | 5% |
| Ph.D. to Post-Doctoral | Nil |
| Employed | |
| • Campus selection | |
| • Other than campus recruitment | 50% |
| Entrepreneurs | 2% |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | 25% |
| from other universities within the State | 75% |
| from universities from other States | Nil |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil



38. Present details of departmental infrastructural facilities with regard to

- a) Library : Yes Number of Books : 1146
- b) Internet facilities for staff and students : Yes
- c) Total number of class rooms : 2
- d) Class rooms with ICT facility : 1
- e) Students' laboratories : Nil
- f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates

- a) From the host institution/university : Nil
- b) From other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university:

- e-grantz for 18 students

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

- a) Yes. Before starting the MA programme in Economics, a need assessment was made. The emphasis is to combine the domain knowledge in Economics and Public Policy, with special reference to Centre State relations and Fiscal federalism.
- b) The Centre also started a short training Programme on Legislation in collaboration with Gulati Institute of Finance and Taxation (GIFT), Trivandrum to impart training on Government Budget.

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. The centre makes strenuous efforts to improve the quality of teaching by using the latest electronic gadgets. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes. Based on student feedback the faculty council offers courses that is much required. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | The centre conducts alumni meeting annually and attempts to make to see constructive feedback to implemented |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|------------------|---|
| 1. | AnsiyaRahiman | Assistant Professor |
| 2. | Adhila | Assistant Professor |
| 3. | Gireesh K Hari | Assistant Professor Govt. Arts College, Kattappana (contract) |
| 4. | Arun B | Railway |
| 5. | Binu V Varghese: | KSRTC |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

| Year | Name of the programme | Details (date) |
|------|---|------------------------------|
| 2014 | Manufacturing Sector in India – Challenges and opportunities | Speaker Dr.Jayan Jose Thomas |
| 2015 | Malnutrition among the Tribal Children : Myths and Reality | Speaker Manikandan A.D |
| 2015 | Overview of Forex Business in Commercial Banks in India | Speaker Mr. Pancha Devi Negi |
| 2016 | Indian Immigrants in the UK: Socio-Economic Implications of International Movements | Speaker Prof.Atreyi Majumdar |
| 2016 | Budget Accounting | Prof. D Narayana |

45. List the teaching methods adopted by the faculty for different programmes:

Power point presentations, Problem solving session, interactive sessions. Our class room is equipped with video conferencing facility and modern electronic gadgets that aid teaching.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :

Assessment through internal test and seminars and assignments

47. Highlight the participation of students and faculty in extension activities:

- Two students participated in the workshop in Intellectual Property Rights at ISID, New Delhi.
- One student participated in the National Seminar on The New Rural Paradigm: Policies And Governance, National Institute of Rural Development & Panchayati Raj, Hyderabad.
- Eleven students presented papers in the National Seminar on Kerala Development Oxymora.
- Twelve students participated in the International seminar on ‘Globalisation and India’s Innovation Systems: Towards Creative Destruction



- All the students and faculty members volunteered in different capacities in the start-up exhibition project conducted by Business Innovation and Incubation Centre (BIIC), Mahatma Gandhi University.

48. Give details of “beyond syllabus scholarly activities” of the department:

- Students participate in programmes conducted by other institutions, participate in competitive cultural programs conducted by the University.
- All the faculty/students of KNRaj Centre in different capacities volunteered to conduct the student Business Innovation and Incubation Centre’s start-up exhibition programme

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Different University bodies at different levels ensure quality.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The centre proposal to establish Business Incubation and Innovation centre (BIIC) was accepted by Government of Kerala. The Centre facilitated the University teaching and research departments to formally engage with industry at various levels through its student start-up exhibition. Accordingly, the industrialists were invited as experts to evaluate the student start-up projects, encouraging university industry linkage.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Capacity to win external funds (seminars, symposium) through external funding.
- Potential to raise money from external funding agencies through submission of socially relevant themes
- Potential to emerge as a research centre.

Weakness

- The centre is not having M.Phil and Ph.D Programmes, which thwart its emergence as a research centre.

Opportunities

- As the Department of Economics, the centre and its academic community have opportunities galore. Students passed out from the Centre are either employed or pursuing higher education.

Challenges

- The Centre is at its incipient stage. Creation of regular positions is still pending with the government.

52. Future plans of the department:

1. Resetting the centre in the new “Convergence Academy Complex”.
2. Initiating new emerging research areas.
3. Initiating M.Phil/ PhD programmes and MOOC course on Innovation.
4. Conducting short-term courses on Centre-state financial relations and Budgeting in association with Gulati Institute of Finance and Taxation (GIFT), Trivandrum; conducting short-term course on Industrial Development, R & D, and IPR in association with ISID, New Delhi.



NATIONAL INSTITUTE OF PLANT SCIENCE TECHNOLOGY

| | | | |
|-----|--|---|--|
| 1. | Name of the Department | : | National Institute of Plant Science Technology |
| 2. | Year of establishment | : | 2014 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Integrated M. Sc. Ph.D. programme. |
| 5. | Interdisciplinary programmes and departments involved | | School of Biosciences, Inter University Centre for Organic Farming and Sustainable Agriculture. Students are taking Open Courses from other Departments like Nanoscience, Environmental science, Physics etc |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | NIL |
| 7. | Details of programmes discontinued, if any, with reasons | | NIL |
| 8. | Examination System | | Semester (Credit and semester System) |
| 9. | Participation of the department in the courses offered by other departments | | Nil |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) | | Nil |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 4 years |
|---------------|---------------|---------------------------|----------------|----------------------------|--|
| Dr.Jisha M.S. | Ph. D. | Professor and Coordinator | Microbiology | 16 | Ph.D.- 9 M.Phil. -5 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| |
|---|
| • Dr. J. G. Ray, Professor, School of Biosciences, M.G. University, Kottayam. |
| • Dr.Valsalakumar. N, Retd. HOD Dept. Of Botany Govt. College, Nattakom |
| • Shri.Rajagopal.R, Retd. Associate professor, Department of Botany, SN College Kollam |
| • Shri.George Mathew Murikken, Retd. Associate Professor, Department of Botany, Devamatha College, Kuravilangad |
| • Dr.Marykutty Abraham, Retd. Associate professor, Department of Botany, St.Joseph College, Alappuzha |
| • Prof.C.GVargese, Retd. Associate professor, Department of Botany, St. Thomas College, Kozenchery |
| • Dr.K.Mary Varghese, Retd. Associate professor, Department of Botany, St. Thomas College, Kozenchery |
| • Dr.Domanic V.J, Retd. Associate professor, Department of Botany, S.H.Thevara |
| • Dr. Amith Abraham, Research Associate, Rubber Research Institute of India (RRII), Kottayam |
| • Dr.AjuK .Ashok, Research Associate, CTCRI, Thiruvananthapuram |
| • Dr.Sharrel Rebello, Research Associate, Unibiosis, Cochin |
| • Dr. Joy P Joseph, Rtd. Professor, Sacred Heart College, Thevara, Cochi |

13. Percentage of classes taken by temporary faculty – 90%
14. Programme-wise Student Teacher Ratio: M. Sc 2:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Technical Staff : 01, Administrative Staff : 01

16. Research thrust areas as recognized by major funding agencies

- Organic farming
- Algal technology
- Industrially important biocatalysts.
- Bio-fertilizers
- Bio-pesticides
- Phytochemistry and pharmacognosy
- Eco-technologies such as phytoremediation
- Bioremediation
- Biofuel
- Nutraceuticals
- Phytosynthesis of nanoparticles
- Technology for conservation of bio-resources and seed-technology

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

One (Coordinator Dr.Jisha M.S)

National:

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹) |
|--------|---|-----------|------------------|----------------|
| 1. | Bioremediation of Chlorpyrifos by autochthonous microbial consortia | 2016-2019 | KSCSTE | 25 Lakhs |

Total grants received: ₹ 25 lakhs

18. Inter-institutional collaborative projects and associated grants received: Nil

- a) National collaboration b) International collaboration

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : Nil

20. Research facility / centre with: Nil

- State recognition --Ten students completed their M.Sc research projects. At present 12 students from affiliated colleges are doing their dissertation works
- national recognition
- international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 29 |
| 2. | Monographs | - |
| 3. | Conference Proceedings | 23 |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | - |
| 8. | Articles in popular publications | - |
| 9. | Total | 56 |

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad:

1. Invited participation with free registration at the 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Dr. Jisha. M.S. (Coordinator)

1. Chaired one session at the 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
2. Invited participation with free registration at the 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
3. Participated the International Conference On Advances in Applied Science and Environmental Engineering - ASEE 2014, Institute of Research Engineers and Doctors (IRED), at Kuala Lumpur, Malaysia



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).NA

1. Conducted advanced Training on Hazard Analysis and Critical Control Points (HACCP Level III)with international certificate
2. National Seminar on “Plant Science Technology for Sustainable World” sponsored by KSCSTE and M.G.University.

28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects 100%
- percentage of students doing projects in collaboration with other universities / industry / institute Nil

29. Awards / recognitions received at the national and international level by

- **Alan Thomas S** received **Best paper presentation** award at International seminar on emerging trends in organic farming and sustainable agriculture held at Kottayam during 29th to 31st December 2016
- **Anto Joseph** got **Best paper presentation** award at The National Seminar on Plant science Technology for sustainable world held at Kottayam during February 25th -26th 2016
- **Anto Joseph** got UGC NET

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.

| Seminars/ Conferences/ Workshops organized | Source of funding | National / International | outstanding participant |
|---|--------------------------|--------------------------|---|
| Advanced Training On Hazard Analysis and Critical Control Points (HACCP Level III)with international certificate . 9-13 December, 2015 | Registration Fee | National | Dr Shaji Philip, Scientist, Rubber Research Institute of India |
| National Seminar on “Plant Science Technology for Sustainable World” Feb25-26. 2016 | M.G. University & KSCSTE | National | Dr. Krishnaraj, P.U., Professor & Head, Dept. of biotechnology, University of Agricultural Sciences, Dharwad, Hubli |

31. **Code of ethics for research followed by the departments:** It's mandatory for all master and PhD students to strictly adhere to plagiarism before submitting any manuscript to a journal

32. **Student profile programme-wise:**

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Integrated M.Sc. Ph.D. | 210 | 3 | 7 | 100 | 100 |

33. **Diversity of students**

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Integrated M.Sc. Ph.D. | 66.6% | 33.3% | Nil | Nil |

34. **How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

GATE- one
NET-one

35. **Student progression:** Nil

| Student Progression | % against enrolled |
|---------------------------------|--------------------|
| UG to PG | Nil |
| PG to M.Phil | Nil |
| PG to Ph.D | Nil |
| Ph.D to Post Doctoral | Nil |
| Employed by Campus Selection | Nil |
| • Other than Campus recruitment | Nil |
| • Entrepreneurs | |



36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | 100% |
| From other universities within the State | |
| From universities from other States | |
| From universities outside the country | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period - Nil

38. Present details of departmental infrastructural facilities with regard to

- a) Library -Yes
- b) Internet facilities for staff and students -Yes
- c) Total number of class rooms - One
- d) Class rooms with ICT facility -Yes
- e) Students' laboratories - Yes
- f) Research laboratories – Yes

39. List of doctoral, post-doctoral students and Research Associates: Nil

- a) from the host institution/university
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university. Nine

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

The feedback given by students and stake holders are the basic matrix for identifying the new programme and it will be discussed in the executive committee of NIPST. The final draft will be submitted to university for approval

42. Does the department obtain feedback from

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The curriculum as well as departmental activities is under constant monitoring of a Core Committee and an Executive council.

- b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Student feedback forms will collect occasionally and modifications will be done accordingly
- c) Alumni and employers on the programmes offered and how does the department utilize the feedback? The centre started only during 2014-15

- 43. List the distinguished alumni of the department (maximum 10) :** Nil
- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**
- ✓ Erudite lecture by Dr. Krishnaswami, A., IIM Kozhikode
 - ✓ Dr Shaji Philip, Scientist, Rubber Research Institute of India took classes for Advanced Training On Hazard Analysis and Critical Control Points (HACCP Level III) with international certificate during 9-13 december.2015
 - ✓ Dr. Krishnaraj, P.U., Professor & Head, Dept. of biotechnology, University of Agricultural Sciences, Dharwad, Hubli gave keynote address during the National Seminar on “Plant Science Technology for Sustainable World “during 25-26 Feb,2016
 - ✓ Dr.muhammad Hatha, Professor, Cochin university of science and technology; Dr.james,Professor,Amal Jyothi college of Engineering;Dr.George Thomas.Dean,Kerala Agriculture University handled classes on Workshop on Creative writing for tapping funding resources and effective publication during 27-28 Feb 2017
 - ✓ Conducting classes of academic experts like Range Officer, Vallakkadavu Jayachandran; Deputy Director Periyar Tiger Reserve Dr.Radhakrishnan
- 45. List the teaching methods adopted by the faculty for different programmes.**
- Theory classes, smart classes, Demonstration, Field visits, Industrial visit, study tour, Lab to Land Programme , conducting classes of academic experts
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**
- Internal assessment will be done. Internal marks are giving based on assignment, seminar and class tests.
- 47. Highlight the participation of students and faculty in extension activities.**
- Exploration of flora
 - Plant Identification services
 - Conduct field survey of plant diversity
 - Practicing organic agriculture strategies to farmers
 - Conduct awareness classes on sustainable agricultural practices
 - Charitable activities
- 48. Give details of “beyond syllabus scholarly activities” of the department.**
- Nature club
 - Journal club
 - Lab to Land Programme
 - Industrial/field visit
 - Study tour



- Eco tourism
- Associated with the Organic farming venture of M.G. University
- Conduct awareness classes on sustainable agricultural practices
- Conducting workshops and seminars
- Charitable activities
- Erudite Programme

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- ✓ The publications (64) and seminar presentations (60) made by the coordinator stand testimony to the new knowledge developed in the centre
- ✓ Expected to lead to high quality research output in the form of quality publications and patents in Plant Science as well as to promote entrepreneurship in plant-based eco-technologies.
- ✓ Developing plant herbarium
- ✓ Developing culture bank of plant growth promoting microbial isolates
- ✓ Developing micropropagation methodologies for economically important plants
- ✓ Developing molecular markers for traditionally important plants
- ✓ Developing secondary metabolite production strategies from plant cell culture
- ✓ Associated with the Organic farming venture of M.G. University.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength

- Qualified students
- Resource persons from multidisciplinary area
- Can link science and Technology

Weakness

- Lack of Infrastructure
- Lack of initial funds for beginning research activities
- Lack of regular faculties

Opportunities

- Immense plant wealth & plant diversity in the region
- Increasing demand of plant based technologies
- Promotion of eco-friendly practices and green industries by government/society

Challenge

- Permanent research guides
- Difficult to arrange placement
- Time delays

52. Future plans of the department

- Introducing M.Phil. Botany in the next academic year.
- Introducing Advanced Diploma in Food Quality and Safety management.
- Developing plant herbarium.
- Developing culture bank of plant growth promoting microbial isolates.
- Developing micro propagation methodologies for economically important plants.
- Developing molecular markers for traditionally important plants.
- Developing secondary metabolite production strategies from plant cell culture



UNIVERSITY CENTRE FOR INTERNATIONAL CO-OPERATION (UCIC)

| | | | | | | |
|---|--|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | University Centre for International Co-operation(UCIC) | | | |
| 2. | Year of establishment | : | 2010 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | No, Inter School Centre | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | No Regular Programmes | | | |
| 5. | Interdisciplinary programmes and departments involved | | Acting as a coordinating Centre for admission and academic related activities of international students in various schools/ departments/ centers for which it interacts with different departments. | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | Collaborated with the following institutes during 2011-13. Institute of Political Studies (IEP) Rennes, France IEP of Bordeaux, Sciences PO, Bordeaux, France | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | No | | | |
| 8. | Examination System | | No such system since the centre is not having regular courses | | | |
| 9. | Participation of the department in the courses offered by other departments | | The international students can opt for open courses conducted by other departments | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) | | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | | | |
| | | | Associate Professors | | | |
| | | | Asst. Professors | | | |
| | | | Others | | | |
| There is one Honorary Director , an Honorary Joint Director, and 3 casual employees | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. / M.Phil students guided for the last 6 years |
|--------------------|----------------------------------|---------------------|--|----------------------------|--|
| Dr.Sajimon Abraham | M.C.A, M.Sc(Maths), M.B.A, Ph.D. | Assistant Professor | Computer Applications and Information Technology | 26 | 6 |
| Dr. C Vinodan | M.A, Ph.D | Assistant Professor | International Relations | 17 | 15 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Prof.Jia Haitao, Director, Institute for Chindian Studies, Jinan University

Prof. David G. Baker, Fulbright Senior Specialist, USA

13. Percentage of classes taken by temporary faculty – programme-wise information:
Nil

14. Programme-wise Student Teacher Ratio: NA

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 0 | 0 |
| Administrative Staff | 0 | 3 |

16. Research thrust areas as recognized by major funding agencies:

- India Study Programme
- Semester Abroad Programme
- International Faculty Interaction through Summer Schools and FDP
- MOU & International Institution Membership

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

- Dr.Sajimon Abraham, completed the UGC sponsored Minor Research Project titled “ Moving Object Data Base implementation on Security Informatics , worth Rs 1lakh in July 2011

18. Inter-institutional collaborative projects and associated grants received:

- Collaboration with School of International Relations and Politics, School of Computer Sciences and K.N Raj Centre for Seminar and Conference co-ordination
- Association with Federation of Indian Commerce & Industries for implementing National Knowledge Network.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

- UCIC received a financial award of Rs. 10 Lakhs from Higher Education Council, Government of Kerala for promoting India Study Programme during 2014-15
- UCIC received the grant of Rs. 25 lakhs from state government for various activities of the centre during 2015-16.

20. Research facility / centre: Nil

- state recognition
- national recognition
- international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 11 |
| 2. | Monographs | 1 |
| 3. | Conference Proceedings | 5 |
| 4. | Chapters in Books | 5 |
| 5. | Edited Books | 2 |
| 6. | Books authored with ISBN | 0 |
| 7. | Books authored without ISBN | 0 |
| 8. | Articles in popular publications | 0 |
| | Total | 24 |

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

- Honorary Director of the UCIC visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011.
- Honorary Director UCIC jointly with Dr. K.M Seethi, Dean, Faculty of Social Sciences, Mahatma Gandhi University participated in the International Conference on Buddhism and World Culture organized by Jinan University, China as well as in a One Day Colloquium on the theme India and South Korea.

26. Faculty serving in

a) National and International committees

- The Director, UCIC is a member of National Knowledge Network of FICCI, for promoting internationalization of Education.
- Dr.Sajimon Abraham, is Technical Programme Committee member of International Conference on Data Base System to be held at Geneva in December 2017.
- The Joint Director, UCIC is a member of Global Academia group, a faculty forum for the promotion the inward movement of International students in Kerala.
- Joint Director is serving as a member of International academia member
- Dr.Sajimon Abraham became the Member Board of studies in Computer Applications (P.G), M.G University in February 2015.
- Dr.Sajimon Abraham become the Member Board of studies in Management(P.G) Kannur University with effect from December 2015 for a period of 3 years.
- Dr.Sajimon Abraham assisted in the Committee on API Score evaluation for the Promotion of teachers in making API format and instructions according to UGC guidelines.
- Dr.Sajimon Abraham took initiative taken to setup smart class room with Virtual Learning facility at SMBS
- Dr.Sajimon Abraham has co-ordinated add-on programme titled “ Short term course on Business Data Analysis using Tally & Excel” for final Year MBA students as part of Additional Skill Acquisition to make the students employable (December 2015 – March 2016).
- Dr.Sajimon Abraham became Member – e-learning Technical Committee, Co-ordinator of University Alumni Activities.



- Dr.Sajimon Abraham became Member of Executive Committee of Inter University Centre for Chinese Studies, M.G University
- 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)**
- UCIC is organizing orientation programmes for newly joined International Students to familiarize them the culture and academic system.
 - Participated in 3 workshops in connection with e-governance of M.G University
 - Co-ordinated the Placement Drive conducted at SMBS on 14th September 2014 for MBA students.
 - Co-ordinated the NAAC pre-presentation programme of the department before the IQAC committee of M.G University.
- 28. Student projects: Nil**
- percentage of students who have done in-house projects including inter-departmental projects
 - percentage of students doing projects in collaboration with other universities/ industry / institute
- 29. Awards / recognitions received at the national and international level:**
- Faculty : Nil
 - Doctoral / Post-doctoral fellows
 - Students : Ph.D Awarded to Mr. El. Hadji Mamour Sakho
- 30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:**
- Hosted Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, Guangz hou, China as the KSHEC sponsored Erudite Scholar-in-Residence during January 2011.
 - Hosted invited Special Lecture by Ambassador Vinod C. Khanna on the theme *Rise of China: Implications for the Rest of the World* jointly with the Public Diplomacy Division of Ministry of External Affairs (MEA), New Delhi.
 - The School of International Relations and Politics jointly with the UCIC organized a One Day Symposium on the theme *China and the Emerging World Order: Is Peaceful Rise Possible?* on 23 December 2011.
 - UCIC hosted the Erudite Scholar-in-Residence Programme of Prof. Jane Knight during December 2011 – February 2012.
 - UCIC hosted the Fulbright Senior Specialist Programme of Prof. David G. Baker, Fulbright Senior Specialist, USA jointly with the School of International Relations and Politics, June 2011.

- Honorary Director of the UCIC visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011.
- Honorary Director UCIC jointly with Dr. K.M Seethi, Dean, Faculty of Social Sciences, Mahatma Gandhi University participated in the International Conference on Buddhism and World Culture organized by Jinan University, China as well as in a One Day Colloquium on the theme India and South Korea, February 2012.
- Co-ordinated the international conference on “Understanding India” held during April 2015 along with “Rajiv Gandhi Chair” and Center for China Studies.

31. Code of ethics for research followed by the departments:

The International students who join for research in humanities and Social Sciences has to take an authorisation on the privacy of the research data they are collecting related to their study. Also they have to use licensed software. The center follows strict control over plagiarism related issues along with other schools/centers of the University.

32. Student profile programme-wise:

Forty Eight International Students has been admitted to various Schools of the University/ Affiliated Colleges during 2010-15 under ICCR sponsored scheme/direct candidate.

| List of Foreign Students Admitted to Mahatma Gandhi University Teaching Departments/Affiliated Colleges through the ICCR Sponsored Cultural Exchange Schemes/Direct Candidates from 2010-2015 | | | | |
|--|----------------------------|----------------|---|------------------------|
| 2010-2011 | | | | |
| Sl. No. | Name of the Student | Country | Course and Scheme | College/ School |
| 1. | Ms.Louise Pageot | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 2. | Ms.Marie Houdin | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 3. | Ms.Pauline Calvez | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 4. | Mr.Antoine De Seigneurens | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 5. | Mr.Vincent Sacau | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 6. | Ms.Gao Wenjing | China | M.A Politics and International Relations (Exchange) | SIRP, MG University |
| 7. | Mr.Tran Minh Nhan | Vietnam | M.A Politics and International Relations (ICCR/CE) | SIRP, MG University |
| 8. | Ms.Elif Bali | Turkey | M.Phil Politics and International Relations (ICCR/CE) | SIRP, MG University |
| 9. | Mr.Tito R Mhagama | Tanzania | MBA (ICCR/CE) | SMBS, MG University |



2011-2012

| 1 | Name of the Student | Country | Course and Scheme | College/School |
|----------|----------------------------|----------------|--|---|
| 1 | Ms.Oceng Frede Amito | Uganda | M.Sc Food Service Management (ICCR/CE) | Assumption College, Changanacherry |
| 2 | Ms.Lwamusai Marsha | Uganda | MBA (ICCR/CE) | Girideepam Institute of Advanced Learning, Kottayam |
| 3 | Mr.Kamya Joseph | Uganda | B.Com (ICCR/CE) | FCMS, Chry |
| 4 | Ms.GaoWenjing | China | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 5 | Mr.Tran Minh Nhan | Vietnam | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 6 | Mr.MwanjeSsenono Aloysius | Uganda | M.Sc. (IT) (ICCR/CE) | UCAS, Pathanamthitta |
| 7 | Ms.Hanna Barbara Urbanska | Poland | PDF (ICCR/CE) | School of Letters , MG University |
| 8 | Ms.MalletOriane | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Ms.Caillon Marine | France | M.A Politics and International Relations (MoU) | SIRP, MG University |

2012-2013

| Sl. No. | Name of the Student | Country | Course and scheme | College/School |
|----------------|----------------------------|----------------|---|-----------------------|
| 1 | Mr. El. Hadji Mamour Sakho | Senegal | Ph.D. (ICCR/ ASS) | SPAP , MG University |
| 2 | Mr.MwanjeSsenono Aloysius | Uganda | M.Sc. (IT) (ICCR/CE) | UCAS, Pathanamthitta |
| 3 | Mr.ZhussipZhmagaliyev | Kazakhstan | M.A. Politics and International Relations (ICCR/GCSS) | SIRP, MG University |
| 4 | Mr.ImaniraroraLote | Rwanda | Master in Comp.Sc./IT (ICCR/ASS) | SCS, MG University |



| | | | | |
|----|-----------------------------|---------------|--|------------------------|
| 5 | Mr. Sho Tanaka | Japan | M.A. Politics and International Relations (ICCR/CEP) | SIRP, MG University |
| 6 | Ms. Céline Di Mantova | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 7 | Ms. Alma Laplace | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 8 | Ms. Chloé Delpierre | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Mr. Simon Cannone | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 10 | Mr. Derouault Jean-Baptiste | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 11 | Ms. Jessica K. Haven | United States | M.A. (Development Studies) Independent | SGTDS, M.G. University |

2013-2014

| Sl. No. | Name of the Student | Country | Course and scheme | College/School |
|---------|---|-----------|---|------------------------|
| 1 | Mr. Tigran Ghazaryan | Armenia | MBA (GCSS) | Girideepam, Kottayam |
| 2 | Mr. Ravneel Prakash Mani | Fiji | B.Sc. (Comp. Sc.) (GCSS) | UCAS, Pullarikunnu |
| 3 | Mr. Kwasi Mensah Nyarko | Ghana | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 4 | Ms. Ni Luh Hindy Citra Satyawati Inggas | Indonesia | B.A. Economics (GCSS) | K.E. College, Mannanam |
| 5 | Mr. Adoum Idriss Adoum | Chad | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 6 | Mr. Joseph Phillip | Tanzania | M.Sc. (Comp. Sc.) (ASS) | SCS, M.G. University |
| 7 | Mr. Lucas Pardal | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 8 | Mr. Hugo Chene | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Mr. Feyisa Rita Melaku | Ethiopia | Ph.D. in Social Work (ASS) | SGTDS, MG University |



2014-2015

| Sl. No. | Name of the Student | Country | Course and scheme | College/ School |
|----------------|---------------------------------------|----------------|--|------------------------|
| 1 | Ms. Ni LuhHindy Citra SatyawatiInggas | Indonesia | B.A. Economics (GCSS) | K.E. College, Mannanam |
| 2 | Mr. AdoumIdrissAdoum | Chad | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 3 | Mr.Corentin Maurice Daniel Mercier | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 4 | Ms.Fanny Jeanette Marie JosepheRagot | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 5 | Ms.Julie Marie Rousseau | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 6 | Mr. Hay Sambo | Cambodia | M.Sc. (Comp. Sc.) (Mekon Ganga Scholarship Scheme) | SCS, M.G. University |
| 7 | Mr. You Vanndy | Cambodia | M.Sc. (Comp. Sc.) (Mekon Ganga Scholarship Scheme) | SCS, M.G. University |
| 8 | Ms. Ellen TwamangulukaNghikembua | Namibia | M.Sc. Psychology (ASS) | SBS, M.G. University |

2015-2016

| Sl. No. | Name of the Student | Country | Course and scheme | College/School |
|----------------|-----------------------------|----------------|---|-----------------------|
| 1 | Ms. Camille Nelly Madeleine | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |

**33. Diversity of students**

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|---|---|--|---|
| No Regular programme- | - | - | - | 100 |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise : NA

35. Student progression : N.A

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|------------|
| Of the same university | 50% |
| From other universities within the state | 50% |
| From universities from other State | Nil |
| From Universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: N.A

38. Present details of departmental infrastructural facilities with regard to

- a) Library : Nil
- b) Internet facilities for staff and students : Common Least line Fibre Optics Cable Connection available
- c) Total number of class rooms : Nil
- d) Class rooms with ICT facility : Nil
- e) Students' laboratories : Nil
- f) Research laboratories : Nil



39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university : 2
- b) from other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university : 1

Under semester abroad programme, UCIC could provide financial assistance to meet the travel expenditure of Miss. Chithira V Kartha, a P.G students of IIUCNN for doing M.Sc project at Max Plank Institute, Germany.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :

The centre is collecting the academic performance of the students every six months from the respective departments in addition to the statutory requirements from ICCR office, Trivandrum. The response regarding the courses and programmes are generally used for suggesting change requirements in the existing programmes as well as identifying new programmes to be offered in various departments.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

UCIC is collecting the feedback of student academic performance from the respective school/department. This feedback is used for guiding the students and also to inform the department some measures to be taken for strengthening the academic programme.

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The Centre has collected feedback about the institution they have studied, hostel accommodation, university system etc. from international students who returned after their studies.

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

The passed out international students who are now in their own country or some other country are taking part in the alumni feedback through e-mail. Based on their response some measures are taken in the international students admission process as well as giving recommendations to Schools providing valuable inputs to include some international academic requirement in the curriculum.

43. List the distinguished alumni of the department (maximum 10):

The international students who return back to their country are either continue their studies in some other country or finding jobs in or outside their country. Some of the distinguished alumni's to be highlighted in this context are

| | | | |
|----------------------------|----------|---------------------|---|
| Mr. El. Hadji Mamour Sakho | Senegal | Ph.D. (ICCR/ASS) | Doing Post-Doctoral Studies in South African University |
| Mr. Tito R Mhagama | Tanzania | MBA (ICCR/CE) | Holding Administrator Post in Insurance Division, Tanzania |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

- The Programmes and activities of the UCIC were inaugurated during December 2010, with an International Conference commemorating the Hiroshima Peace Day. A Japanese delegation led by Hiroshima Legend Mr. Takashi Teramoto visited the university on the occasion and an Exhibition on the Hiroshima tragedy as well as the One Day Symposium was organized during 11-12 August 2010.
- Hosted invited Special Lecture by Ambassador Vinod C. Khanna on the theme *Rise of China: Implications for the Rest of the World* jointly with the Public Diplomacy Division of Ministry of External Affairs (MEA), New Delhi during 2011.
- The School of International Relations and Politics jointly with the UCIC organized a One Day Symposium on the theme *China and the Emerging World Order: Is Peaceful Rise Possible?* on 23 December 2011.
- UCIC hosted the Erudite Scholar-in-Residence Programme of Prof. Jane Knight during December 2011 – February 2012.
- UCIC hosted the Fulbright Senior Specialist Programme of Prof. David G. Baker, Fulbright Senior Specialist, USA jointly with the School of International Relations and Politics during 2012.
- Dr. Raju K. Thadikkaran, Honorary Director of the UCIC visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011.
- UCIC officials and foreign students studying in MGU participated in the International Students Meet jointly organized by the KSHEC and ICCR, New Delhi at Trivandrum during January 2015.
- The University Centre for International Cooperation (UCIC) established the India Study Programme for international students as part of the internalization programme in Mahatma Gandhi University. The India Study programme was supported by the Kerala State Higher Education Council.
- Launched a separate website for international students during 2015
- Published an international brochure for promoting India Study programme during 2015

45. List the teaching methods adopted by the faculty for different programmes:

In addition to usual lecture method the faculty members uses Information Technology tools like power point presentation, website, e-mails, blog, case studies, field visit etc. The proposal for making the e-content for 23 India study programme and offering the short term programme modules will certainly enhance the quality teaching learning process.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

Every international students studying in the campus have to compulsorily submit their academic progress every six months through the director of the School/Center. The fulfilments of the academic objectives of the center can be judged with the above process. The executive meetings of the center held once in six months or at any time due to urgency, discuss all such matter and appropriate decision were taken for better planning and control for academic transactions ultimately aiming at effective international co-operation.

47. Highlight the participation of students and faculty in extension activities:

The center encourages the international students to participate in various workshop and seminars held around in connection with internationalization of education, Indian and Kerala cultural highlights.

48. Give details of “beyond syllabus scholarly activities” of the department:

- UCIC initiated various measures so as to ensure reservation of seats for foreign students and research scholars from abroad in all academic departments in the university, constituent colleges, Off-Campus centers as well as affiliated colleges
- UCIC initiated measures whereby Mahatma Gandhi University has streamlined the admission process for foreign students admitted to Mahatma Gandhi University through MoU, ICCR sponsored Cultural Exchange Scheme as well as Exchange Schemes.
- At the UCIC initiative, Mahatma Gandhi University has established International Scholars Hostel (Ladies and Gents) as well as studio apartment accommodation facility for senior foreign scholars. These facilities are being provided in the house leased out for the purpose until permanent facilities shall be made available in the university campus.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

The international students studying in various departments are coming under respective regulatory bodies like AICTE, NCTE, ICCR, UGC etc. The University is accredited with NAAC with a grade of B+ and now preparing for re-accreditation with NAAC.

The MBA and MTech programmes are approved by AICTE.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

- Initiated steps in making “Regulation for International Students Admission” to smoothen the yearly admission process.
- Short-term Course Modules on India for foreign students – about Indian policy, society, economy, culture, history and philosophy – creation of course documentation started
- International Summer School for young scholars from abroad planning in final stage
- Sanctioned a travel grant of Rs 1 lakh to a student in IUCNS to go to foreign country under semester abroad programme.
- MoU with reputed institutions from abroad.
- International Scholars Hostel (ISH) for boys and girls separately in established and managing by taking private houses on lease agreement.

Publications of Dr.Sajimon Abraham, Honorary Director

- Sajimon Abraham. And SojanLal, P. Spatio-Temporal Similarity of Web User Session Trajectories with Applications to Dark Web Environment. In the Proceedings of IEEE Asia Pacific Workshop on Intelligence and Security Informatics (PAISI 11), Springer-Verlang Series of Lecture notes in Computer Science,(LNCS), ISBN : 978-3-642-22038-8, Vol, 6749 , Beijing , China, 2011,1-10. Won the second best paper award
- Sajimon Abraham and Sojan Lal, P. Spatio-Temporal Queries and Triggers in Moving Object Databases with Advantageous of Dimension Reduction. In the Book on Communication and Computing, School of Computer Sciences, Mahatma Gandhi University, Kottayam, 2011. Won the second best paper award
- Sajimon Abraham. And SojanLal, P. WEBTRACCLUS – A Spatio-Temporal Trajectory Clustering Tool for Personalization in Healthcare Web Portals. In Proceedings of ACM PETRA held at Greece, 2011.
- Sajimon Abraham. And Sojan Lal, P. Trajectory Clustering of Network Constrained Moving Objects and Applications to Web Usage Mining. In the Interdisciplinary journal Accuman published by Marian College, Kuttikkanam, ISBN 0975-6981, 2011.
- Sajimon Abraham, P. Sojan Lal, Dais George , Trajectory Similarity in Spatio-Temporal data bases and applications in Climatologically study, accepted in the Proceedings of 24th Kerala Science Congress, to be held at Rubber Board, Kottayam on 29-31 January 2012.

- Sajimon Abraham, P.SojanLal, *Spatio-Temporal Similarity of Network Constrained Moving object Trajectories using Sequence Alignment of travel locations*. Published in Elsevier Journal of Transportation Network Research, Part C, April 2012.(Impact factor 1.9).
- Mobility Mining Techniques for Big Data Analysis in Supply Chain Traffic” co-authored with Dr. Sajimon Abraham, 3rd IIMA International Conference on Advanced Data Analysis, Business Analytics and Intelligence April 13-14, 2013, IIM Ahmedabad.
- Paper Titled “Optimization techniques in RFID data management in Supply Chain” published in “International Journal of Computer Applications”, Jan 2014.
- Paper titled “Big data analysis using in-memory techniques” published in the proceeding of the National Seminar on Computing and Communications held at Sri Bhudha College, Pattoor, March 2014.
- Sajimon Abrahham, Lumy Joseph, “Role of Cloud Computing in Educational Data Mining” Published in the U.G.C sponsored National Conference Proceedings organized by M.E.S College, Nedumkandam on 15-17 June 2015.

Publications C.Vinodan, Joint Director, UCIC

- Publications C.Vinodan (co-author) (2012): The EU–India Relations: Towards A New Partnership in the Asian Century, *Journal of Asian Politics*, Vol. 11, No. 2.
- C.Vinodan (2012): “Strategic Dimensions of China’s South China Sea Policy: Implications for International Relations, *South Asian Journal of Diplomacy*, Vol. 3, No. 3.
- C.Vinodan (co-author) (2013) Regionalism and Regional Cooperation in International Relations: A Conceptual Analysis, *Online International Interdisciplinary Research Journal*, Volume-III, Issue-VI, Nov-December.
- C.Vinodan (2013): “The Rise of China and the Maritime Dispute in the South China Sea,” *Southeast Asian Journal of Social and Political Issues*, Vol.1, No.3.
- C Vinodan (co-author) (2013): “Energy Security: A Multivariate Analysis of Emerging Trends and Implications for South Asia,” *India Quarterly*, Dec 69: 383-400.
- of Dr. C. Vinoden, Joint Director, UCIC
- C.Vinodan (ed.)(2014), *South Asia in the Globalised World*, New Delhi: New Century Publishers.
- C.Vinodan (2013): “China, US and South China Sea Dispute,” in Mohanan B. Pillai (ed.), *India's National Security: Concerns and Strategies*, New Century Publishers, New Delhi.



- C.Vinodan (2014): “China and the Emerging Global Energy System,” *Journal of International Studies*, Vol.10.
- C.Vinodan (2015): *Energy Security Choices for India*, New Delhi: New Century Publishers.
- C.Vinodan & Rajesh Kuniyil (2015): “Energy Security and Climate Change: Problems and Prospects in India-Australia Relations,” *ISDA Journal*, Vol.10.
- C. Vinodan (2015): Regional Connectivity and Energy Security in South Asia: Challenges and Opportunities, in Mohanan B.Pillai & Alduri Subramanyan Raju (Eds.), *Connectivity and Integration in South Asia*, Kalpaz Publications, New Delhi.
- C. Vinodan (2015): Nuclea South Asia; Strategic and Security Dimensions, in Suresh R (Ed.), *The Changing Dimensions of Security: Indias Security Policy Options*, Vij Books Ind Pvt Ltd, New Delhi. ISBN 978-93-84464-80-6.
- C.Vinodan & Rajesh Kuniyil (2015): “Energy Security and Climate Change: Problems and Prospects in India-Australia Relations,” *ISDA Journal*, Vol.10.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths

- M.G University’s strategic location in the most attractive tourist receiving state of Kerala is a major attraction for international students.
- The University which is named after the father of the nation “Mahatma Gandhi” prompt many international students to join Mahatma Gandhi University.
- The University is having a mix of diverse departments/schools where plenty of choices for learning.
- The faculty members have excellent expertise to undertake challenging problems.
- The cost effectiveness of education in the university is a major attraction for international students from developing countries.

Weakness

- Many administrative formalities sometimes delays the international student admission process.
- Lack of publicity on the admission process in the international media.
- Lack of international student’s hostel in the campus.
- Absence of round the year online admission process.

Opportunities

- Motivation from both central and state govt. to make Kerala as an Educational hub for quality higher education at reasonable cost.
- Kerala - a prominent international tourist destination

Challenges

- Certificate eligibility related issues – delay in recognition process prevents smooth inward mobility.
- Administration and Maintenance of international scholars hostel outside the campus with building on lease agreement
- No separate mechanism like international channel for speedy academic record processing for foreign students.

52. Future plans of the Centre

- Targeting enrollment of at least 100 international students every year by 2020.
- To organize a series of special talk and interaction on “Research and Career Opportunities in countries like Germany, USA, Australia” during 2017.
- Initiate steps for the Construction of International Hostel in the campus.
- Possibility of a new Office space with a modern front office.
- To organize an International Conference on “Celebrating cultural diversity through education and Technology” during July 2017.
- To organize Second International Students meet during December 2017 under Extension Programme.
- To start India Study Programme in 23 modules through e-learning.
- To conduct of International Faculty Development Programme during December 2017.
- To start MOOC course on “Understanding India” under India Study Programme.
- Preparation of Guidelines for Semester Abroad Programme.
- Website updation with on-line course joining and fee payment facilities.



UNIVERSITY COLLEGE OF ENGINEERING, THODUPUZHA

| | | | | | | |
|-----|---|---|---|------------|--------|--|
| 1. | Name of the Department | : | University College of Engineering, Thodupuzha | | | |
| 2. | Year of establishment | : | 1996 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Engineering and Technology | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | B. Tech., M. Tech., Ph. D. | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Semester | | | |
| 9. | Participation of the department in the courses offered by other departments | : | No courses are being offered by the UCET in other departments. However, faculty members in UCET teach courses for various B. Tech. programmes conducted at the college. | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled | |
| | | | Principal | 1 | 1 | |
| | | | Professors | 0 | 0 | |
| | | | Associate Professors | 0 | 0 | |
| | | | Asst. Professors | 7 | 7 | |
| | | | Lecturer | 1 | 1 | |
| | | | Lecturers(Contract) | | 48 | |
| | | | Lectures(Guest) | | 5 | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 6 years |
|-------------------------|----------------------|-------------------------|--------------------------------|-----------------------------------|--|
| Dr.P.N. Joshi | M. Tech Ph. D | Principal | Mechanical Engineering | 38 | |
| Ravikumar B. | M. Tech | Asst. Professor (Adhoc) | Computer & Information Science | 19 | |
| Bindu Baby Thomas | M. Tech | Asst. Professor (Adhoc) | Software Engineering | 19 | |
| Anu Augustine | M. E | Lecturer (Contract) | Computer Science | 8 | |
| Jithy P. K. | M. Tech | Lecturer (Contract) | Computer Science | 2 | |
| Bichu Vijayan | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Anjali Elizabeth Joseph | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Sajith K. | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Jincy Annie V. V. | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Lini Abraham | M. Tech | Lecturer (Contract) | Computer Science | 2.5 | |
| Reghunath E. V. | M. Tech | Lecturer (Contract) | Computer Science | 2 | |
| Rahumath Beevi A. | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Dr. Lethakumary B. | M. Tech Ph. D | Asst. Professor (Adhoc) | Microwave Engineering | 22 | 7 |



| | | | | | |
|----------------------|--------------|-------------------------|----------------------------|-----|--|
| Dr.Abdul Hakeem M.A. | M. Tech Ph.D | Asst. Professor (Adhoc) | Engineering Education | 22 | |
| Asalatha P.T. | M.Tech | Lecturer (Contract) | VLSI | 6 | |
| Rajeesh Babu | M.Tech | Lecturer (Contract) | VLSI | 6 | |
| Renjith V. R. | M.Tech | Lecturer (Contract) | VLSI | 4 | |
| Aneesh M. P. | M.Tech | Lecturer (Contract) | Applied Electronics | 4 | |
| Deepu S. | M.Tech | Lecturer (Contract) | Communication Systems | 4 | |
| Ansar M. M. | M.Tech | Lecturer (Contract) | Applied Electronics | 4 | |
| Asha Jayaprakash | M.Tech | Lecturer (Contract) | Opto-Electronics | 3 | |
| Krishnapriya B. | M.Tech | Lecturer (Contract) | Communication Systems | 3 | |
| Sanju S. | M.Tech | Lecturer (Contract) | Control Systems | 3 | |
| Amjadha A. | M.Tech | Lecturer (Contract) | Applied Electronics | 1.5 | |
| Reeja Sebastian | M.Tech | Lecturer (Contract) | Embedded Systems | 1 | |
| Anoop M. M. | M.Tech | Lecturers (Guest) | VLSI | 4 | |
| Ambily V. R. | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 6 | |
| Limin K. Mathew | M. E | Lecturer (Contract) | Power & Energy Systems | 3 | |
| Jincy Joy | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 3 | |
| Sreekala C. S. | M. Tech | Lecturer (Contract) | Power Systems | 6 | |



| | | | | | |
|------------------------|-------------------|-------------------------------|----------------------------|-----|--|
| Veena Vijayan | M. Tech | Lecturer (Contract) | Power Electronics | 2.5 | |
| Maria Joseph | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 2 | |
| Dona Maria Mathew | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1.2 | |
| Thanooja Ann Jose | M. Tech | Lecturer (Contract) | Applied Electronics | 4.5 | |
| Nimmy Berchman | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1 | |
| Divya S. | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1.5 | |
| Mayamol S. | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1 | |
| Shahna P. Saith | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1.7 | |
| Anjaly Iyer S. | M.Tech | Lecturer (Contract) | Computer Science | 4 | |
| Manoj M. J. | M.Tech | Lecturer (Contract) | Computer Science | 4 | |
| Rakhi Roy J. | M.Tech | Lecturer (Contract) | Computer Science | 1 | |
| Anju K. S. | M.Tech | Lecturer (Contract) | Computer Science | 1 | |
| Soumya George | M.Tech | Lecturer (Contract) | Computer Science | 2 | |
| Reshmi Sojan | M.Tech | Lecturer (Contract) | Computer Science | 2.5 | |
| Rakhi K. Raj | M.Tech | Lecturer (Contract) | Information Technology | 1 | |
| Dr . Geethamma V.G. | M. Tech Ph. D. | Asst. Professor (Adhoc) | Polymer Engineering | 22 | |



| | | | | | |
|-----------------------|------------------|-------------------------------|---------------------------|-----|--|
| Dr. Josephine George | M. Tech Ph. D | Asst. Professor (Adhoc) | Polymer Engineering | 20 | |
| Dr. Leny Mathew | M. Tech Ph. D | Asst. Professor (Adhoc) | Polymer Engineering | 20 | |
| Dr. Jose Sebastian | M. Tech Ph. D | Lecturer (Contract) | Polymer Engineering | 12 | |
| Sreelatha R. | M.Tech | Lecturer (Contract) | Polymer Engineering | 5 | |
| Sheeba John | M. Tech | Lecturer (Contract) | Polymer Engineering | 2 | |
| Bibin Oommen | M. Tech | Lecturers (Guest) | Chemical Engineering | 6 | |
| Sibu P. M. | M.Tech | Lecturers (Adhoc) | Mechanical Engineering | 17 | |
| Kannan S. | M.Tech | Lecturer (Contract) | Mechanical Engineering | 2 | |
| Thirumanas K. R. | M.Tech | Lecturer (Contract) | Mechanical Engineering | 3 | |
| Sijo Jose | M.Tech | Lecturer (Contract) | Mechanical Engineering | 4 | |
| Sumithra Venugopal | M.Tech | Lecturer (Contract) | Civil Engineering | 1 | |
| Rintu K. Joseph | M.Sc | Lecturer (Contract) | Science & Humanities | 2.5 | |
| Dhanya R. | M.Sc | Lecturers (Guest) | Science & Humanities | 3 | |
| Suja T. I. | M.Sc | Lecturers (Guest) | Science & Humanities | 5 | |
| Nisha Ravi | M.Sc | Lecturers (Guest) | Science & Humanities | 4 | |
| Dr. Jose Baby | PhD | Lecturer (Contract) | Physical Education | 3 | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- **Prof. Joy Michael teaches –Adjunct Faculty**
- **Prof. K. A. Thomas, Associate Professor (retd.), St. Joseph College,**



Moolamattom- Adjunct Faculty

•

13. Percentage of classes taken by temporary faculty – programme-wise information

By temporary faculty : 100%

14. Programme-wise Student Teacher Ratio - 20:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Sl No | Department | Technical Staff | Administrative Staff |
|-------|---|-----------------|----------------------|
| 1 | Computer Science and Engineering | 2 | - |
| 2 | Electronics and Communication Engineering | 2 | - |
| 3 | Electrical and Electronics Engineering | 3 | - |
| 4 | Information Technology | - | - |
| 5 | Polymer Engineering | 2 | - |
| 6 | Mechanical workshop | 6 | - |
| 7 | Office | - | 10 |
| 8 | Library | - | 4 |

16. Research thrust areas as recognized by major funding agencies

Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- ☐ State recognition
- ☐ National recognition
- ☐ International recognition



Electronics & Communication Engineering department is recognized as approved research centre by M.G University.

21. Special research laboratories sponsored by / created by industry or corporate bodies
Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 26 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 10 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 36 |

a) Publication per faculty :

| | |
|-----------------------|-----|
| Dr. P. N. Joshi | - 1 |
| Dr. Lethakumary B. | - 6 |
| Dr. Leny Mathew | - 4 |
| Dr. Jose Sebastian | - 2 |
| Mr. Bibin Oommen | - 3 |
| Ms. Dona Maria Mathew | - 3 |
| Ms. Divya S. | - 3 |
| Ms. Nimmy Berchmans | - 1 |
| Ms. Mayamol S. | - 1 |
| Dr. Geethamma V. G. | - 2 |

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

* Citation Index – range

* Average

* SJR



* Impact Factor – range / average

* h-index

Citations: 3

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

- Dr. Geethamma V. G. Visited the Dept. of Materials Science & Engineering, University of Illinois (UC), USA, with Fulbright Fellowship

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other

b) (please specify)

Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Nil

28. Student projects

a. Percentage of students who have done in-house projects including inter-departmental / programme

| Department | Percentage |
|------------|------------|
| CSE | 10 |
| ECE | 35 |
| EEE | 10 |
| IT | 0 |
| PE | 0 |

b. Percentage of students doing projects in collaboration with other universities / industry / institute

| Department | Percentage |
|------------|------------|
| CSE | 90 |
| ECE | 65 |
| EEE | 90 |
| IT | 100 |
| PE | 100 |



29. Awards / recognitions received at the national and international level by

a Faculty

| A | Research awards received by the faculty |
|---------------------|--|
| Dr. Geethamma V. G. | <ul style="list-style-type: none"> Fulbright Fellowship in the Dept. of Materials Science & Engineering, University of Illinois (UC), USA, on Soft Lithography and Nano patterning. Fulbright Alumni Award supported by the United States-India Educational Foundation (USIEF), New Delhi, to conduct a seminar on Polymers and Environment, 2013. |

Doctoral / post-doctoral fellows -Nil

| B | Research awards received by the students |
|----------|---|
| Students | <ul style="list-style-type: none"> Abin Ravi has represented the Kerala team in the National Roller Skating championship held at Delhi in June, 2012. M.G University College of Engineering, Thodupuzha, won the All Kerala Inter-collegiate Football 7s Tournament held at Painavu Engineering College in 2014. M.G University College of Engineering, Thodupuzha, won the Action Cup All Kerala Inter-collegiate Football 7s Tournament held at Ilahia College of Engineering, Muvatupuzha in 2015 |

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

a) National

| | | |
|----|--|------|
| 1. | National Seminar on Advanced Polymers (NSAP-12) | 2012 |
| 2. | SCIENTIA-2012 September 28 &29 | 2012 |
| 3. | National Seminar on Advanced Polymers (NSAP-14) 2014 October 28 | 2014 |
| 4. | National Seminar on Advanced Polymers (NSAP-15) | 2015 |
| 5. | HESPEROS-15 September 11 &12 | 2015 |
| 6. | Seminar on “Innovation in Science & Technology: Exploring the Creative Space” was held on 26.2.2016 in association with the National Science Day. It was supported by the Kerala State Council for Science | 2016 |



| | | |
|----|--|------|
| | Technology and Environment and DST, Govt. of India. | |
| 7. | Seminar on “Waste Management: Begin at Our Home” was held on 16.6.2016 in connection with the World Environment Day. It was supported by the Kerala State Council for Science Technology and Environment and DST, Govt.of India. | 2016 |
| 8. | Seminar on “Energy Conservation and Building Code” was conducted on 7.9.2016. It was sponsored by the Energy Management Centre, Govt. of Kerala and the Bureau of Energy Efficiency, Govt. of India. | 2016 |

b) **International: Nil**

31. Code of ethics for research followed by the departments: Nil

32. Student profile programme-wise:

Year-2011

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 55 | 27 | 28 | 64 |
| Electronics and Communication Engineering | NA | 64 | 35 | 29 | 45 |
| Electrical and Electronics Engineering | NA | 48 | 30 | 18 | 43 |
| Information Technology | NA | 27 | 14 | 13 | 45 |
| Polymer Engineering | NA | 54 | 37 | 17 | 58.06 |

Year-2012

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|-----------|-----------|-----------|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 53 | 24 | 29 | 51 |
| Electronics and Communication Engineering | NA | 62 | 30 | 32 | 66 |
| Electrical and Electronics Engineering | NA | 52 | 35 | 17 | 51 |
| Information Technology | NA | 21 | 05 | 16 | 61 |
| Polymer Engineering | NA | 47 | 28 | 19 | 70 |

**Year-2013**

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 43 | 17 | 26 | 37 |
| Electronics and Communication Engineering | NA | 35 | 14 | 21 | 44 |
| Electrical and Electronics Engineering | NA | 35 | 20 | 15 | 51 |
| Information Technology | NA | 10 | 07 | 03 | 37 |
| Polymer Engineering | NA | 42 | 29 | 13 | 78 |

Year-2014

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 34 | 17 | 17 | 37 |
| Electronics and Communication Engineering | NA | 28 | 13 | 15 | 45 |
| Electrical and Electronics Engineering | NA | 39 | 21 | 18 | 52 |
| Information Technology | NA | 06 | 03 | 03 | 23 |
| Polymer Engineering | NA | 44 | 32 | 12 | 58 |



Year-2015

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 35 | 16 | 19 | 55 |
| Electronics and Communication Engineering | NA | 26 | 14 | 12 | 72 |
| Electrical and Electronics Engineering | NA | 25 | 17 | 08 | 60 |
| Information Technology | NA | 10 | 07 | 03 | 60 |
| Polymer Engineering | NA | 35 | 15 | 20 | 52 |

Year-2016

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 48 | 24 | 24 | 79 |
| Electronics and Communication Engineering | NA | 33 | 15 | 18 | 89 |
| Electrical and Electronics Engineering | NA | 30 | 22 | 08 | 69 |
| Information Technology | NA | 22 | 09 | 13 | 95 |
| Polymer Engineering | NA | 24 | 10 | 14 | 51 |

33: Diversity of students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| CSE | 100 | 0 | 0 |
| ECE | 100 | 0 | 0 |
| EEE | 100 | 0 | 0 |
| IT | 100 | 0 | 0 |
| PE | 100 | 0 | 0 |



How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Department | GATE | Civil Service |
|------------|------|---------------|
| CSE | 5 | |
| ECE | 10 | 1(2010) |
| EEE | 7 | |
| IT | 0 | |
| PE | 20 | 1(2008) |

34. Student progression

| Student progression | Against % enrolled |
|----------------------------------|--------------------|
| UG to PG | 10% |
| PG to M.Phil. | |
| PG to Ph.D. | 1% |
| Ph.D. to Post-Doctoral | |
| Employed | |
| • Campus selection | 30% |
| • Other than campus recruitment | 30% |
| Entrepreneurship/Self-employment | 10% |

University College of Engineering keeps good relation with Industries globally and locally. The students are exposed to Industries during their semester intervals through Industrial training and frequent Industrial Visits. We are also associated with Scientific and Research Institutes for the final year student project work.

Industries like Apollo tyres, Ceat Tyres, JK tyres, TVS tyres etc. give Industrial Training and Project work for the final year students. Other Industries like Nerolac Paints, Asian paints, High Build Coatings, 3M, Akzo Nobel, Berger Paints etc. conduct interview to recruit our students. Research Institutes like VSSC, IRMRA, DRDO, NCL are also associated with the college. Public sector Institutions like Hindustan Latex Limited, Hindustan Aeronautics Limited, Rubber Research Institute of India also gets collaborated with the college. Local Industries like Tollins tyres, Lunar Rubbers, VKC, Vajra Rubbers also keep good Institute – Industry relation with our college through Industrial Visits/ Placements for the students.



RECRUITMENT DRIVE RESULT OF 2016 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name of Students | Course |
|-------|---------------------|-----------------------------|------------------------|--------|
| 1 | INFOSYS Ltd | 17 | 1.Anu Mohan | CSE |
| | | | 2.Boby Kunjumon Thomas | CSE |
| | | | 3.Jins K Joy | CSE |
| | | | 4.Ajai Mohan | EEE |
| | | | 5.Akhil Lal S | EEE |
| | | | 6.Arjun Unnikrishnan | EEE |
| | | | 7.Athira K R | EEE |
| | | | 8.Mohammed Afeef T A | EEE |
| | | | 9.Niravadya V S | EEE |
| | | | 10.Albert Pious | ECE |
| | | | 11.Amrta Mary John | ECE |
| | | | 12.Anjitha Prem | ECE |
| | | | 13.Reshma R Nair | ECE |
| | | | 14.Sethulakshmi G | ECE |
| | | | 15.Vrindha Vijayan | ECE |
| | | | 16.Fathima Safana | IT |
| | | | 17.Linda P Johns | IT |
| 2 | QBurst Technologies | 5 | 1.Ajai Mohan | EEE |
| | | | 2.Akshay R | PE |
| | | | 3.Alan Thomas | ECE |
| | | | 4.Amrta Mary John | ECE |
| | | | 5.Anjaly George | CSE |
| 3 | IBS Softwares | 2 | 1.Anjan P Kumar | EEE |
| | | | 2.Sreelekshmi N P | CSE |
| 4 | UST GLOBAL | 8 | 1.Jayakrishnan K Y | IT |
| | | | 2.Athira C R | CSE |
| | | | 3.Chikkulal C | CSE |
| | | | 4.Ajmal B Aliyar | CSE |
| | | | 5.Divya C | ECE |
| | | | 6.Suhara M U | ECE |
| | | | 7.Reenu Rajan | ECE |
| | | | 8.Harikrishnan M | ECE |
| 5 | WIPRO TECHNOLOGIES | 2 | 1.P Sarath Hari | ECE |
| | | | 2.Greeshma V S | IT |
| | TOTAL | 34 | | |



RECRUITMENT DRIVE- RESULT OF 2015 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name Of Students | Course |
|-------|-----------------------|-----------------------------|------------------------|----------|
| 1 | INFOSYS Ltd | 10 | 1. Jismi Mathew | ECE |
| | | | 2. Anooth Mohan | ECE |
| | | | 3. Georgy Jacob | ECE |
| | | | 4. Iyvin Jose | CSE |
| | | | 5. Sony Kurian K | CSE |
| | | | 6. Jithin Jiji | CSE |
| | | | 7. Akhil Paul | CSE |
| | | | 8. Dayana Abraham | CSE |
| | | | 9. Deekshitth M P S | POLYMER |
| | | | 10. Betty G Kurian | MTech AE |
| 2 | QBurst Technologies | 1 | 1. Vipin Narayanan P P | IT |
| 3 | IBS Softwares | 1 | 1. Surumi Ismail | CSE |
| 4 | Broadcom Technologies | 4 | 1 Ram Gopal B | ECE |
| | | | 2. Amalraj Tr | EEE |
| | | | 3.Rony Scaria | ECE |
| | | | 4.Anand Babu | CSE |
| 5 | Poornam Infovision | 3 | 1.Jayamol Joseph | CSE |
| | | | 2. Akhil Dev K. P. | ECE |
| | | | 3.Deepukrishnan P. R. | CSE |
| | TOTAL | 19 | | |



RECRUITMENT DRIVE RESULT OF 2014 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name Of Students | Course |
|-------|--------------------------------------|-----------------------------|------------------------|---------|
| 1 | INFOSYS Ltd | 16 | 1. Ashik Muhammed P A | EEE |
| | | | 2. Abel John Muthalaly | ECE |
| | | | 3. Amal Philip | ECE |
| | | | 4. Bibina Rose Thomas | ECE |
| | | | 5. Pooja P R | ECE |
| | | | 6. Shyamly Kuniyil K | POLYMER |
| | | | 7. Abhiram S | CSE |
| | | | 8. Geethu Raj | CSE |
| | | | 9. Heera Mukundan | CSE |
| | | | 10. Jijumon Varghese | CSE |
| | | | 11. Lija James | CSE |
| | | | 12. Sangeetha A | CSE |
| | | | 13. Sharal G Mohan | CSE |
| | | | 14. Neetha George | EEE |
| | | | 15. Revathy G Nair | EEE |
| | | | 16. Vani Vijayan | EEE |
| 2 | IBS Softwares | 3 | 1. Rahi Hareendranath | CSE |
| | | | 2. Shiju Thomas | EEE |
| | | | 3. Vishnu Narayanan | ECE |
| 3 | QBurst Technologies | 5 | 1. Abhijith George | CSE |
| | | | 2. Aparna Ashok | CSE |
| | | | 3. Alvin Varghese | CSE |
| | | | 4. Anjuna Baby | ECE |
| | | | 5. Akhil Suresh | ECE |
| 4 | Cognizant Technology Solutions(CTS) | 2 | 1. Jithu V George | CSE |
| | | | 2. L. S. Revathykutty | EEE |
| 5 | ACCENTURE | 6 | 1. Rilja Sunny | ECE |
| | | | 2. Veena K S | ECE |
| | | | 3. Sneha Nair | CSE |
| | | | 4. Sherine Varghese | ECE |
| | | | 5. Indu K | ECE |
| 6 | Tata Consultancy Services(TCS) | 2 | | CSE |
| | TOTAL | 34 | | |



RECRUITMENT DRIVE RESULT OF 2013 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed |
|-------|------------------------|-----------------------------|
| 1 | IBS SOFTWARES | 3 |
| 2 | ARICENT | 3 |
| 3 | SPERIDIAN TECHNOLOGIES | 2 |
| | TOTAL | 8 |

RECRUITMENT DRIVE RESULT OF 2012 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name of Students | Course |
|-------|-----------------|-----------------------------|-------------------------|--------|
| 1 | Infosys | 43 | 1.Aby M. Scaria | CSE |
| | | | 2 Akhil Raj A. J. | ECE |
| | | | 3 Aleena Rose Peter | EEE |
| | | | 4 Amalu Anna Roy | ECE |
| | | | 5 Anjaly R. | ECE |
| | | | 6 Anju Maria Kurian | EEE |
| | | | 7 Ann Maria Isaac | EEE |
| | | | 8 Anu B. Paul | CSE |
| | | | 9 Anusha George | IT |
| | | | 10 Aparna Murali | ECE |
| | | | 11.Arjun Krishna P. R. | EEE |
| | | | 12 Arya M. | ECE |
| | | | 13 Aswathi S. Pillai | IT |
| | | | 14. Daughty Abraham | ECE |
| | | | 15 Deepu Jose Thomas | ECE |
| | | | 16 George Antony Thomas | ECE |
| | | | 17.Greeshma Sekharan | EEE |
| | | | 18.Haritha M. | ECE |
| | | | 19.Haritha M. | EEE |
| | | | 20.Jeena Jose | CSE |
| | | | 21.Jiss Mary Thomas | CSE |
| | | | 22.Johnson Jos | CSE |
| | | | 23.Josekutty Joseph | ECE |



| | | | | |
|---|--------------|-----------|------------------------------|-----|
| | | | 24.Juwin P. Zam | ECE |
| | | | 25.Jyothis Alphy Thomas | IT |
| | | | 26.Krishnendu G. | EEE |
| | | | 27.Malu K. R. | IT |
| | | | 28.Manju Ravi | ECE |
| | | | 29. Minu Tony Thottam | IT |
| | | | 30.Mitun Jose George | CSE |
| | | | 31.Nargis M. | ECE |
| | | | 32.Neethu Thomas | ECE |
| | | | 33.Neethu V. M. | ECE |
| | | | 34.Raziya Yacoob | ECE |
| | | | 35. Rose Elizabeth Augustine | CSE |
| | | | 36. Sariga James | IT |
| | | | 37.Shameela Sulaiman | CSE |
| | | | 38.Shimna George | ECE |
| | | | 39.Shirin Rahim | EEE |
| | | | 40.Shyni Merlin Raju | IT |
| | | | 41.Sreelakshmi Surendran | ECE |
| | | | 42 Sruthi Babu | IT |
| | | | 43.Surya Saradhy | EEE |
| 2 | Accenture | 9 | 1.Dannie Abraham | IT |
| | | | 2.Daughty Abraham | ECE |
| | | | 3.George Antony Thomas | ECE |
| | | | 4.Juwin P. Zam | ECE |
| | | | 5.Mitun Jose George | CSE |
| | | | 6.Ramkumar S. | ECE |
| | | | 7.Sighil Sivadas | CSE |
| | | | 8.Veena S. Kumar | CSE |
| | | | 9.Veenasree Kaimal | IT |
| | TOTAL | 52 | | |

RECRUITMENT DRIVE RESULT OF 2011 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name Of Students | Course |
|-------|-----------------|-----------------------------|----------------------|--------|
| 1 | Infosys | 38 | 1 Abidh Muhsin P. A. | ECE |
| | | | 2 Ahalya M. S. | ECE |
| | | | 3 Aji Salam | IT |
| | | | 4 Amal G. Jose | EEE |
| | | | 5 Aneesha Mol T. I. | IT |
| | | | 6 Anjukutty Joseph | CSE |
| | | | 7 Anu K. Babu | CSE |



| | | | | |
|---|-------------------|----|--------------------------|-----|
| | | | 8 Archana H. | ECE |
| | | | 9 Areena Antony | ECE |
| | | | 10 Arun Alias | CSE |
| | | | 11 Ashven V. Gopal | ECE |
| | | | 12 Asish M. | CSE |
| | | | 13 Athira Murali | ECE |
| | | | 14 Chanthini M. Tharayil | IT |
| | | | 15 Deepa C. C. | ECE |
| | | | 16 Deepa Rani George | ECE |
| | | | 17 Dhanoop Bhaskar | IT |
| | | | 18 Geethu S. | CSE |
| | | | 19 Hariharan N. | EEE |
| | | | 20 James Tom | CSE |
| | | | 21 Jasmine T. Nazeer | IT |
| | | | 22 Jerin Alias | CSE |
| | | | 23 Jijo Mathew | IT |
| | | | 24 Jinsmon Kurian | CSE |
| | | | 25 Meenu Thomas | CSE |
| | | | 26 Neethu Babu | CSE |
| | | | 27 Nithin Prasad | CSE |
| | | | 28 Rachana Radhakrishnan | ECE |
| | | | 29 Sabira E. E. | IT |
| | | | 30 Sayana Sivanand | ECE |
| | | | 31 Sherin Deena Sam | ECE |
| | | | 32 Shoji Thomas | CSE |
| | | | 33 Shruti Mohan | IT |
| | | | 34 Sini V. | IT |
| | | | 35 Sinu John | CSE |
| | | | 36 Soumya Mohan | ECE |
| | | | 37 Sreya R. Nambiar | IT |
| | | | 38 Tinu A. Vincent | EEE |
| 2 | PATNI COMPUERS | 21 | 1 Amal G. Jose | EEE |
| | | | 2 Anjukutty Joseph | CSE |
| | | | 3 Archana H. | ECE |
| | | | 4 Asish M. | CSE |
| | | | 5 Geethu S. | CSE |
| | | | 6 Jasmine T. Nazeer | IT |
| | | | 7 Jerin Alias | CSE |
| | | | 8 Meenu Thomas | CSE |
| | | | 9 Nithin Prasad | CSE |



| | | | | |
|---|---------------|----|----------------------------|-----|
| | | | 10 Soumya Mohan | ECE |
| | | | 11 Sreya R. Nambiar | IT |
| | | | 12 Akhil P. R. | EEE |
| | | | 13 Anupama Geoege | IT |
| | | | 14 Arun Sasi | ECE |
| | | | 15 Ashitha Alikutty | CSE |
| | | | 16 Chithra R. | EEE |
| | | | 17 Christeena George | CSE |
| | | | 18 Dinoop P. | EEE |
| | | | 19 Rohit Reghu | CSE |
| | | | 20 Sajitha Salim | EEE |
| | | | 21 Sneha Elizabeth Tomy | CSE |
| 3 | ACCENTURE | 13 | 1 Priya A. Peedikaparambil | CSE |
| | | | 2 Rohit Reghu | CSE |
| | | | 3 Sneha Elizabeth Tomy | CSE |
| | | | 4 Subina E. S. | CSE |
| | | | 5 Aleena Joseph | ECE |
| | | | 6 Arun Sasi | ECE |
| | | | 7 Jesly James | ECE |
| | | | 8 Sanal S. Nair | ECE |
| | | | 9 Anu Parvathi P. | EEE |
| | | | 10 Praveen Kumar | EEE |
| | | | 11 Animol Joseph | IT |
| | | | 12 Anupama Geoege | IT |
| | | | 13 Sreeprabha P. | IT |
| 4 | IBS softwares | 7 | 1 Ashitha Alikutty | CSE |
| | | | 2 Chithra R. | EEE |
| | | | 3 Jithin Babu K. | ECE |
| | | | 4 Krishnaja B. | CSE |
| | | | 5 Lucina Joseph | EEE |
| | | | 6 Ranju R. | CSE |
| | | | 7 Sahla M. M. | ECE |
| 5 | TATA ELXSI | 5 | 1 Jesly James | ECE |
| | | | 2 Meenu Thomas | CSE |
| | | | 3 Sahla M. M. | ECE |
| | | | 4 Sajitha Salim | EEE |
| | | | 5 Sinu John | CSE |
| 6 | SIXDEE | 2 | 1 Dinoop P. | EEE |
| | | | 2 Gopikrishnan A. N. | IT |
| 7 | CSS | 2 | 1 Jose Vivek A. R. | EEE |
| | | | 2 Seethu Maria Mathew | IT |



| | | | | |
|---|-------|----|-----------------|-----|
| 8 | NEST | 1 | 1 Anil Paul | CSE |
| 9 | HCL | 1 | 1 Joseph Thomas | CSE |
| | TOTAL | 90 | | |

35. Diversity of Staff

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | 40% |
| From other universities within the state | 40% |
| From universities from other State | 20% |
| From Universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

| Faculty who were awarded Ph.D. during the assessment period | |
|---|---------------|
| Dr. Leny Mathew | July 2010 |
| Dr. Jose Baby | December 2014 |
| Dr. Abdul Hakeem M. A. | May 2016 |
| Dr. Jose Sebastian | July 2016 |

38. Present details of departmental infrastructural facilities with regard to

a) Library :

The College has a good library with a book collection of 18929 volumes and 7348 titles. These spread among various branches of engineering and other general subjects. The library subscribe to 32 journals and 3 general periodicals apart from 5 daily newspapers. We provide free internet access to the students and staff at the library. They can access international journals through internet. On an average, 300 students and 50 staff visit the library daily and avail the various services.

- Total area of the library (in Sq. Mts.) : 520
- Total seating capacity: : 75
- Working hours : on working days – 9 AM to 5 PM

| Number of Titles | Number of Volumes |
|------------------|-------------------|
| 7347 | 18929 |



- b) Internet facilities for Staff & Students:** Internet facility available in Lab 20 Mbps Broadband

Connectivity with WiFi accessibility

- c) Class rooms with ICT facility:** NA

- d) Laboratories** : Full equipped Lab

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university : Nil

b) from other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university.

2013 admission

| | M. Tech |
|-------------|----------------|
| SC | 4 |
| OEC | 3 |
| ST | 2 |
| FC | 0 |
| SEBC | 0 |

2014 admission

| | M. Tech |
|-------------|----------------|
| SC | 3 |
| OEC | 2 |
| ST | 1 |
| FC | 0 |
| SEBC | 0 |

2015 admission

| | M. Tech |
|------------|----------------|
| SC | 2 |
| OEC | 1 |



| | |
|-------------|----------|
| ST | 0 |
| FC | 0 |
| SEBC | 0 |

2016 admission

| | |
|-------------|----------------|
| | M. Tech |
| SC | 0 |
| OEC | 0 |
| ST | 0 |
| FC | 0 |
| SEBC | 0 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Nil

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The curriculum is framed by an expert committee and Board of studies. The members are all HODs and Eminent professors from nationally reputed Institutions. The University approves the curriculum and is conveyed to teachers and students.

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Student feedback system- The HOD collect the feedback from students about teachers in the prescribed format.

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- After the completion of the B.Tech. Degree, the students get employment or pursue higher studies. Therefore the college takes continuous feedback from the companies / institutions where our students are employed / pursuing higher studies. Their performance at other institutions will be an indicator of whether we have achieved the objectives of the curriculum.



- The College accept the opinions and suggestions from the well placed Alumni of this college to revise the curriculum. For example, in the 3rd semester B. Tech. Polymer Engineering, we have included a paper on Computer Aided Design and Manufacturing. In this connection, we sought the suggestion from Mr. Manu T. who is our alumnus. He did M. Des. in IIT, Delhi in Product Design.

43. List the distinguished alumni of the department (maximum 10) : Nil

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

| Department | Lectures/ Workshops/ Seminars | Name of the expert | Date & year |
|------------|----------------------------------|---------------------------------------|-----------------------------|
| ECE | 1. Workshop on LABVIEW | Mr. Deepak (NI Bangalore) | 2010 |
| | 2. Workshop on HFSS | Mr. Kaviarasu (Entuple, Bangalore) | 21/03/2016 to 22/03/2016 |

45. List the teaching methods adopted by the faculty for different programmes.

The learning process is framed in such a way that the emphasis is on acquiring in-depth and conceptual knowledge. Adequate use of LCD projectors is employed by faculty. Equal importance is given to classroom and laboratory learning. Apart from the conventional teaching methodology, the faculty members use audio and video presentations with the help of LCD projector. Students are advised to visit the free study materials available online. Also, the students visit industries/ R&D institutes frequently.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Curriculum

- The curriculum is updated periodically keeping track of the changing needs of the industry and the rapid advancements on the technological front. The curriculum is designed to be student friendly with proper emphasis on both theoretical and practical knowledge. It envisages seminar presentations and a full-fledged project work in collaboration with industrial/ R & D organization/ Academic institutions during the final year.
- Revised the curriculum for B.Tech and M. Tech degree programme is followed from 2015 batch admission onwards. The Scheme and syllabus of all programs are framed by an expert committee consisting of internal and external experts in order to meet the standards of employability and knowledge of upgradation. The University approves the curriculum and is conveyed to teachers and students.



- A wide range of elective subjects is also offered in the final year to keep students abreast with the cutting edge of technology. Various curricular activities are being conducted by the 5 departments of the college.
- As mentioned in Sl. No.42 c, we take feedback from the companies / institutions where our students are employed / pursuing higher studies. We also consider the opinion of our alumni.

Implementation

- Academic calendar is prepared Semester wise.
- Teaching plan – A subject wise teaching plan is prepared by teachers under the supervision of HOD.
- Student assessment is done through internal tests, seminars, assignments etc.
- Student feedback system- The HOD collect the feedback from students about teachers in the prescribed format.

47. Highlight the participation of students and faculty in extension activities.

1. Environmental Education

The college has conducted an Awareness Seminar on “Waste Management: Begin at Our Home” at our college. It was organized in connection with the World Environment Day. It was supported by the Kerala State Council for Science Technology and Environment and DST, Govt. of India. This was an *awareness* seminar targeted at a general audience including the people from the localities of our college, in addition to students and staff in various disciplines. So the entire programme was conducted in *Malayalam*. We realize that we need to manage the waste generated in our campus before advising others. So in connection with this seminar, we have launched the *Clean Campus Programme*, a mission to ensure cleanliness in our campus.

2. Human Rights

Every new student admitted at the college has the right to study here without any hazzles/intimidation/harassment/ teasing from senior students. With this perspective, we give the necessary guidelines and awareness for the senior students regarding “Antiragging” every year. The class is taken by the District Legal Authority Cell. The speakers are Judges, Advocates and Police Officers.

3. PST Blood Donation Camp

Blood donation camp conducted on 10th April 2014 in our campus jointly by Blood Cell, UCE and Indian Medical Association, Thodupuzha. Students donated blood during the camp.



Another blood donation camp conducted on 18th August 2015 jointly by Blood Cell, UCE and Indian Medical Association, Thodupuzha at our College. More than 40 students participated in the camp and donated blood.

4. Medical Camp

In connection with the World Health Day (7th April), an awareness class and blood analytical testing camp, was conducted in UCET on 7.4.2016. This was to increase awareness about the rise in diabetics and its staggering burden and consequences, in particular in low and middle income groups. Along with the students, teachers and office staff also participated in the programme.

5. Outreach Programme for school students

Recently the IEEE chapter of this college conducted an outreach programme for school students. They visited the nearby schools and described the importance and specialities of various engineering programmes conducted at our college. Another programme was also conducted by inviting the school students to our college and permitted them to visit our labs.

48. Give details of “beyond syllabus scholarly activities” of the department.

The college has produced a couple of short video clippings on certain topics in the curriculum. This was done by the students and the teachers. We have realized that this teaching methodology created enormous enthusiasm among the students. A few students are doing the experiment and others are watching it. So every student in the class becomes a part of the demonstration. The students become enthusiastic to learn further about the topic.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

NA

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The publications made by the faculty members in several international journals stand testimony to the new knowledge generated by the college.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

S-STRENGTH

- Teaching Department of a State University
- Good visionary management to take the institution to highest levels of quality
- Transparent Governance and Administration
- Good relation among Management, Principal and Staff



W-Weakness

- Industrial consultancy & applied research
- Formal networking with other institutions
- Hostel accommodation
- e-library facility

O-Opportunities

- Possible to change the curriculum based on industrial needs
- Alumni Networking for Academic and placement activities
- Enhance research activities through sponsored R&D projects
- Catering to all sections of the society

C- Challenges

- Compete with the e-governance system of A P J Abdul Kalam Technological University
- Competition from other institutions
- Declining quality of students admitted because of the extremely large number of institutions

Methods adopted to enhance student learning:

- Additional skill development programmes
- Remedial classes for weak students
- Invited lectures by industrial experts
- Collaborative learning
- Industrial visits / industrial trainings

52. Future plans of the department.

- To start new programmes and to become a centre of excellence on engineering studies.
- To improve quality of academics and to have a cosmopolitan group of students representing good student diversity.
- Improved laboratory facilities.
- Construction of hostels, staff quarters etc.



SCHOOL OF TECHNOLOGY & APPLIED SCIENCES

| | | | | | | |
|----|---|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | School of Technology & Applied Sciences | | | |
| 2. | Year of establishment | : | 1993 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of of Technology & Applied Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | MCA, M.Sc Applied Electronics, B.Tech in Polymer Engg., B.Sc Computer Science, B.Sc Cyber Forensic, MSc Computer Science, M.Sc Space Science & Technology, B.Sc Electronics, Ph.D | | | |
| 5. | Interdisciplinary programmes and departments involved | : | PhD | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | - | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Semester, Choice Based Credit System. | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | | |
| 10 | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 3 | Nil | Nil |
| | | | Associate Professors | 6 | 6 | 6 |
| | | | Asst. Professors | - | 1 | 1 |
| | | | Others | | 34 | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance School of Technology & Applied Sciences, Kottayam

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|---------------------------|---------------------------|-------------------|---------------------|----------------------------|--|
| Dr. K. Shreekrishna Kumar | M.Sc, Mphil, M.Tech, Ph.D | Regional Director | Electronics | 26 | 7 |
| Dr. Bindu M.S | M.E , MCA Ph.D | Reader | Computer Science | 28 | 1 |
| Rajendran R. | M.Tech | Reader | Computer Science | 30 | |
| Dr. Bindu K | MCA, Ph.D, SLET | Reader | Computer Science | 26 | |
| Sanu Thomas | M.Tech | Sl.Grade Lecturer | Computer Science | 18 | |
| Dr. Anilkumar P.V | M.Sc, Ph.D | Lecturer | Polymer Technology | 20 | |
| Dr.Bijamma Thomas | M.Sc (OR&CA), Ph.D | Lecturer | Operations Research | 20 | |
| Dr.Benazir K.K | MCA, M.Phil, Ph.D | Lecturer | Computer Science | 16 | |
| Saritha K. | MCA, M.Phil | Lecturer | Computer Science | 15 | |
| Bijini K.Hariharan | M.Sc. Maths | Lecturer | Mathematics | 11 | |
| Jisha Mary George | M.Sc Elec | Lecturer | Electronics | 12 | |
| Manju G.R | MCA | Lecturer | Computer Science | 7 | |
| Geetha Muraledhar | B.Tech, MBA | Lecturer | Polymer Technology | 10 | |
| Priyanka C.D | B.Tech | Lecturer | Polymer Technology | 6 | |
| Sreeja K.S | MCA | Lecturer | Computer Science | 7 | |
| Asha Chandran | MCA | Lecturer | Computer Science | 6 | |
| Aryadevi K | MCA | Lecturer | Computer Science | 8 | |



School of Technology & Applied Sciences, Edappally

| | | | | | |
|------------------------|--------------------------|-------------------|----------------------|----|----|
| Dr. S. Krishnakumar | M.Sc, MCA, M.Tech, Ph.D | Regional Director | Electronics | 22 | 10 |
| Dr. Valyomana A.G | M.Sc, M.Phil, Ph.D, CSIR | Reader | Electronics | 18 | |
| Dr. Thomaskutty Mathew | M.Sc, Ph.D, UGC-NET | Reader | Electronics | 17 | 10 |
| Dr. N.V Eldhose | M.Sc, M.Tech, Ph.D | Sr. Lecturer | Electronics | 22 | 8 |
| Suma Paulose | B.E | Lecturer | Electronics | 18 | |
| Sheena Joseph | M.Sc, M.Phil | Lecturer | Mathematics | 20 | |
| Swapna M | M.C.A | Lecturer | Computer Science | 19 | |
| Biny Varghese P | M.Sc, M.Phil | Lecturer | Mathematics | 20 | |
| Rasia A Khader | M.Sc | Lecturer | Computer Sciences | 10 | |
| Thirumeni K.R | M.C.A | Lecturer | Computer Application | 13 | |
| Anitha Lal KK | MCA, UGC-NET | Lecturer | Computer Application | 11 | |
| Jinimole C.G | B.Tech | Lecturer | Electronics | 12 | |
| Nissa S.S | MCA, M.Tech | Lecturer | Computer Application | 10 | |
| Ambily V.T | M.Sc, U.G.C NET | Lecturer | Computer Technology | 13 | |
| Sooraj N.S | M.Sc U.G.C NET - JRF | Lecturer | Applied Electronics | 10 | |
| Sumi Mary Abraham | M.Sc | Lecturer | Electronics | 10 | |
| Remya V.R | M.Sc, UGC NET | Lecturer | Electronics | 9 | |
| Divya S | M.C.A | Lecturer | Computer Application | 5 | |
| Bindu Rani T.V | B.Tech | Lecturer | Instrumentation | 14 | |
| Redhya V.V | M.Sc | Lecturer | Electronics | 8 | |

School of Technology & Applied Sciences, Pathanathitta

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|------------------------|------------------|-------------------|----------------------|----------------------------|--|
| Dr. Joji J Anchanattu | M.Sc, PhD | Regional Director | Electronics | 22 | |
| Anuja K | M.Sc OR & CA | Lecturer | OR & CA | 17 | |
| Rema K | M C A | Lecturer | Computer Application | 10 | |
| Abdul Muhammed Rasheed | M.Sc CS, M.Phil | Lecturer | Computer Science | 9 | |
| Rajasree G | M C A | Lecturer | Computer Application | 6 | |
| Ann V Easow | M C A | Lecturer | Computer Application | 6 | |
| Siny Sasi | M.Sc Electronics | Lecturer | Electronics | 6 | |
| Jisha G | M C A | Lecturer | Computer Application | 5 | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil

13. Percentage of classes taken by temporary faculty – programme-wise information
MCA 20%, B.Sc. 20%, B.Tech. 40%.

14. Programme-wise Student Teacher Ratio :
MCA – 40:1, B.Sc. 40:1, B.Tech. 30:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

- Librarian- 1
- Technical-6
- Administrative-11



16. Research thrust areas as recognized by major funding agencies

Glass Science & Technology, Thin Film Technology, Solid Electrolytes, Ion Implantation Studies, Plasma Technology

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil

20. Research facility / centre with

- ☐ state recognition - Yes
- ☐ National recognition - No
- ☐ International recognition - No

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 39 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 34 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 73 |

- Number of papers published in peer reviewed journals (national / international) : **39**
- Monographs
- Chapters in Books *
- Edited Books:1
- Books with ISBN with details of publishers
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory+, EBSCO host, etc.)
- Citation Index – range / average * SNIP

- SJR
- Impact Factor – range / average * h-index

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other
- b) (please specify) : 5

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Faculty members participated in Refresher / orientation programs, workshops, training programs etc during the assessment period.

28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects :
30% of MCA & B.Sc. students
- Percentage of students doing projects in collaboration with other universities / industry / institute : 70%

29. Awards / recognitions received at the national and international level by

- Faculty -2
- Doctoral / post-doctoral fellows - Yes
- Students - No

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

1. RAPT – 2015 – National Seminar on Recent Advances in Polymer Technology,
2. Advances in Polymeric Materials – ‘APM – 2K15’, CYSEC – 2015 – Two day seminar
3. 2 days workshop on Cyber Security issues and Kali Linux.

31. Code of ethics for research followed by the departments : NA

32. Student profile programme-wise:



School of Technology & Applied Sciences, Edappally

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| B.SC Electronics | Centralised allotment | 40 | 28 | 12 | 35 |
| B.Sc Computer Science | | 41 | 15 | 26 | 90 |
| M.Sc Applied Electronics | | 21 | 10 | 11 | 96 |
| M.Sc Computer Science | | 9 | 4 | 5 | 98 |
| M.C.A | | 28 | 17 | 11 | 95 |
| B.Sc Cyber Forensic | | 18 | 10 | 8 | |

School of Technology & Applied Sciences, Pathanamthitta

| Name of the Programme (refer to question no. 4) | Year | Applications Received | Selected | | Pass percentage | |
|--|---------|-----------------------|----------|--------|-----------------|--------|
| | | | Male | Female | Male | Female |
| MCA | 2011-12 | 300 | 4 | 22 | 0 | 82 |
| | 2012-13 | | 11 | 21 | 27 | 67 |
| | 2013-14 | | 11 | 28 | Result awaiting | |
| | 2014-15 | | 6 | 31 | | |
| | 2015-16 | | 7 | 11 | | |
| M.Sc Computer Sciences | 2011-12 | PG CAP | 3 | 3 | 100 | 100 |
| | 2012-13 | | 4 | 19 | | |
| | 2013-14 | | 4 | 6 | | |
| | 2014-15 | | 1 | 14 | | |
| | 2015-16 | | 6 | 3 | | |
| B.Sc Computer Sciences | 2011-12 | UG CAP | 20 | 27 | 67 | |
| | 2012-13 | | 23 | 24 | 67 | |
| | 2013-14 | | 20 | 28 | 67 | |
| | 2014-15 | | 15 | 14 | | |
| | 2015-16 | | 18 | 17 | | |
| B.Sc Cyber Forensic | 2014-15 | UG CAP | 11 | 17 | | |
| | 2015-16 | | 11 | 17 | | |



33. Diversity of students 2012-2015

School of Technology & Applied Sciences, Kottayam

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| MCA | 89.6 | 10.34 | Nil | Nil |
| .M.Sc. AE | 93.3 | 6.67 | Nil | Nil |
| M.Sc. CE&NT | 95.4 | Nil | 4.55 | Nil |
| B.Sc. Comp.Sci | HSE | | | 1 student |

School of Technology & Applied Sciences, Edappally

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| B.SC Electronics | 100 | 0 | 0 |
| B.Sc Computer Science | 100 | 0 | 0 |
| M.Sc Applied Electronics | 100 | 0 | 0 |
| M.Sc Computer Science | 100 | 0 | 0 |
| M.C.A | 100 | 0 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:

B.Tech - GATE Scores:

1. Sandhya Alice Varghese
2. Deepak S.
3. Harikrishnan P.
4. Abson Varghese
5. Bijina V.
6. Smitha Venugopal

MCA- NET qualified

1. Beena Lawrance



35. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | 90% |
| PG to M.Phil. | 5% |
| PG to Ph.D. | 10% |
| Ph.D. to Post-Doctoral | |
| Employed | |
| <input type="checkbox"/> Campus selection | 15% |
| <input type="checkbox"/> Other than campus recruitment | 50% |
| Entrepreneurs | 10% |

36. Diversity of staff

| | |
|--|-----|
| Percentage of faculty who are graduates | |
| of the same university | 35% |
| from other universities within the State | 45% |
| from universities from other States | 20% |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : **2**

38. Present details of departmental infrastructural facilities with regard to

- a) Library : **16534 books**
- b) Internet facilities for staff and students : **provided internet lab with 50 PC**
- c) Total number of class rooms: **35**
- d) Class rooms with ICT facility : **1**
- e) Students' laboratories : **10+1 workshop**
- f) Research laboratories : **2**

39. List of doctoral, post-doctoral students and Research Associates :

- a) from the host institution/university : **35 (3 centres)**
- b) from other institutions/universities :

40. Number of post graduate students getting financial assistance from the university.
: 85

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, B.Sc. Cyber Forensic

M.Sc Space Science & Technology

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :** Yes, improving the teaching methods. Includes the suggestions in syllabus modification.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? :** Improvement of teaching methods. Alumni meetings are conducted.
- Alumni and employers on the programmes offered and how does the department utilize the feedback? :** Yes, Improvement of teaching methods, conduction of conferences, refresher courses, Development programmes for students.

43. List the distinguished alumni of the department (maximum 10) :

| Sl No. | Name | Current position |
|--------|--------------------------|--|
| 1 | Dittin Andrews | Senior Scientist, CDAC, Bangalore. |
| 2 | Mahesh Balakrishnan | Project Manager, UST Global, California. |
| 3 | Prasad P. | Team Leader, Infosys, Bangalore. |
| 4 | Sankaran Bhatathiripad | Lead Software engineer, Thomson Reuturs, New York. |
| 5 | Parameswaran Namboothiri | Scientist C, CDAC, Trivandrum. |
| 6 | Mahesh Mahadevan | Cyber Security Consultant, Sulthanate of Oman |
| 7 | Jyothi Mavila | Senior Project Manager, Microsoft Corporation, Vancour, British Colombia |
| 8 | John Varghese | Manager (International Purchase), Renault Nissan Ltd., Chennai. |
| 9 | Dr. Abhilash Kumar K.R | Rubber Technologist, Dunlop Aircraft Tyres, UK |
| 10 | Dr. Sreethara Sharma | Scientist (R&D), Tata chemicals Ltd., UK |



- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :**
1. RAPT – 2K15 – National Seminar on Recent Advances in Polymer Technology,
 2. Advances in Polymeric Materials – ‘APM – 2K15’, CYSEC – 2015 – Two day seminar
 3. 2 days workshop on Cyber Security issues and Kali Linux.
 4. 3 days Nature awareness Camps have been conducted in Thekkady, Munnar & Kumarakom.
- 45. List the teaching methods adopted by the faculty for different programmes. :**
Conducting practical, Tutorials, Projects, seminars, group discussions, Symposiums.
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?** Discussion and meeting with students and staff, collecting information from students.
- 47. Highlight the participation of students and faculty in extension activities. :** Social Service, Nature Club activities.
- 48. Give details of “beyond syllabus scholarly activities” of the department. :**
Seminars, workshops, National Service Scheme, Nature Club, Women’s forum.
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** Yes-AICTE
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. :** The publications made by the faculty members in several international journals and the successful industry interaction stand testimony to the new knowledge generated by the School.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department. :**

STRENGTH

- Highly qualified faculty.
- Teaching Department of a State University
- Transparent Governance and Administration
- Significant number of students are being placed on completion of the course.
- Goodwill and reputation

WEAKNESS:

- Limitation of infrastructure
- Self-Financing department and the fees is high.
- Not getting UGC/AICTE funds.
- Formal networking with other institutions

Opportunities

- New programmes in technology and applied sciences
- Alumni Networking for Academic and placement activities
- Enhance research activities through sponsored R&D projects
- Catering all sections of the society

Challenges:

- Lack of permanent faculty.
- Power failure and interrupted supply.
- Upkeep of instruments in full working condition.

52. Future plans of the department.

- Convening conferences in joint collaboration with national and international institutions.
- Commencing new courses in the field of technology and applied sciences.
- To enhance institution / industry interaction and curriculum development.
- Improving the activities of the Placement Cell and Alumni.



SCHOOL OF APPLIED LIFE SCIENCES, CHUTTIPPARA

| 1. | Name of the Department | : | School of Applied Life Sciences | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|---|--|------------|--------|------------------------------|-----------|------|-----|--|----------------------|------|-----|--|------------------|---|---|--|--------|---|---|--|
| 2. | Year of establishment | : | 1995 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | School coming under the Faculty of Science | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | P.G., M. Phil | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | No participation with other departments | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | No. | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | No. | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | Semester (Choice Based Credit and Semester System) | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | No participation with other departments | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | <table border="1"> <thead> <tr> <th></th><th>Sanctioned</th><th>Filled</th><th>Actual (including CAS & MPS)</th></tr> </thead> <tbody> <tr> <td>Professor</td><td>Nil.</td><td>Nil</td><td></td></tr> <tr> <td>Associate Professors</td><td>Nil.</td><td>Nil</td><td></td></tr> <tr> <td>Asst. Professors</td><td>1</td><td>1</td><td></td></tr> <tr> <td>Others</td><td>-</td><td>-</td><td></td></tr> </tbody> </table> | | Sanctioned | Filled | Actual (including CAS & MPS) | Professor | Nil. | Nil | | Associate Professors | Nil. | Nil | | Asst. Professors | 1 | 1 | | Others | - | - | |
| | Sanctioned | Filled | Actual (including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil. | Nil | | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | Nil. | Nil | | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| Others | - | - | | | | | | | | | | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience |
|---|----------------|---|---------------------------------|----------------------------|
| Dr.A.Chandran | M.Sc.,Ph.D. | Director i/c (Asst.Prof.on Contract) | Aquatic Biology and Fisheries | 30 years |
| Prof. Koshy Thomas (Rtd.Professor) | M.Sc.,M.Phil. | Lecturer(On Contract) | Aquatic Biology and Fisheries | 30 Years |
| Prof.Rosy Issac Nallengara (Rtd.Prof.) | M.Sc., M.Phil. | Guest Lecturer | Aquatic Biology and Fisheries | 30 Years |
| Ms.Reshma Prabhakar | M.Sc., M.Phil. | Lecturer (on Contract) | Fishery Biology and Aquaculture | 4 Years |
| Ms. Remya R.Raj | M.Sc.,M.Phil | Guest Lecturer | Fishery Biology and Aquaculture | 4 Years |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

- No visiting faculty

13. Percentage of classes taken by temporary faculty – programme-wise information

–All theory and practical classes are handled by contract and guest faculty

14. Programme-wise Student Teacher Ratio

| Academic year | Course | Student: teacher |
|---------------|--------|------------------|
| 2011-12 | M.Sc | 8:1 |
| | M.Phil | 6:1 |
| 2012-13 | M.Sc | 5:1 |
| | M.Phil | 6:1 |
| 2013-14 | M.Sc | 8:1 |
| | M.Phil | 4:1 |
| 2014-15 | M.Sc | 10:1 |
| | M.Phil | 6:1 |
| 2015-16 | M.Sc | 10:1 |
| | M.Phil | 6:1 |



15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Academic year | Academic | | Administrative | |
|---------------|------------|--------|----------------|--------|
| | Sanctioned | Filled | Sanctioned | filled |
| 2011-12 | 2 | 2 | 4 | 4 |
| 2012-13 | 2 | 2 | 4 | 4 |
| 2013-14 | 0 | 0 | 4 | 3 |
| 2014-15 | 0 | 0 | 4 | 3 |
| 2015-16 | 0 | 0 | 4 | 2 |

16. Research thrust areas as recognized by major funding agencies: Nil

17. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received. : No projects funded by national or International agencies.

18. Inter-institutional collaborative projects and associated grants received : Nil

19. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received. Not applicable.

20. Research Centre /facility recognized by: Nil

21. Special research laboratories sponsored by/created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 07 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 07 |

23. **Details of patents and income generated:** Nil
24. **Areas of consultancy and income generated:** So far no income generating consultancy services have been undertaken by the department
25. **Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad:** Nil
26. **Faculty as members in**
a) National committees b) International Committees c) Editorial Boards- Nil
27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):** Nil
28. **Student projects**
- Percentage of students who have done in-house projects including inter-departmental projects: 95%
 - Percentage of students doing projects in collaboration with other universities / industry / institute: 5%
29. **Awards / Recognitions received by faculty and students:** Nil.
30. **Seminars/ Conferences/Workshops organized & the source of funding**
a) National b) International: Nil
31. **Code of ethics for research followed by the departments:**
Plagiarism software is being used to monitor the research articles and thesis.
32. **Student profile programme/course wise:**

| Academic year | Course | Applications received | Selected | Enrolled | | Pass percentage |
|---------------|--------|-----------------------|----------|----------|----|-----------------|
| | | | | *M | *F | |
| 2011-12 | M.Sc | 25 | 25 | 02 | 18 | 100 |
| | M.Phil | 06 | 06 | 0 | 06 | 100 |
| 2012-13 | M.Sc | 27 | 25 | 1 | 13 | 100 |
| | M.Phil | 07 | 06 | 0 | 6 | 100 |

*M=Male; *F=Female



33. Diversity of Students.

| Academic year | Course | % of students from the same state | % of students from other states | % of students from abroad |
|---------------|--------|-----------------------------------|---------------------------------|---------------------------|
| 2011-12 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2012-13 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2013-14 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2014-15 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2015-16 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |

34. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

NET/SET: 10

35. Student progression:

| Student Progression | Against % enrolled |
|----------------------------------|--------------------|
| PG to M.Phil. | 5-10% |
| PG to Ph.D. | 5% |
| Ph.D. to Post -Doctoral | 2% |
| Employed | |
| 1.Campus Selection | Nil. |
| 2.Other than Campus Recruitment | 20-30% |
| Entrepreneurship/Self Employment | 10% |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | 40% |
| from other universities within the State | 60% |
| from universities from other States | Nil |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Details of Infrastructural facilities

- a) **Library:**
Adequate library facilities are available for both staff and students of the department
- a) **Internet facilities for staff and students.**
Basic internet facility is available within the department. Both the staff and students have free access to this facility provided in the computer room of the department
- b) **Class rooms with ICT facility.**
None of the class rooms in the department have ICT facility
- c) **Laboratories.**
Two functional laboratories, one for biological and physiological works, and the other for microbiological studies, are available in the department

39. List of doctoral, post-doctoral students and Research Associates: Nil**40. Number of post graduate students getting financial assistance from the university**

| Academic year | Course | No. of students getting Financial assistance |
|---------------|--------|--|
| 2011-12 | M.Sc | 22 |
| | M.Phil | 05 |
| 2012-13 | M.Sc | 14 |
| | M.Phil | 05 |
| 2013-14 | M.Sc | 18 |
| | M.Phil | 03 |
| 2014-15 | M.Sc | 28 |
| | M.Phil | 02 |
| 2015-16 | M.Sc | 31 |
| | M.Phil | 02 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :

After discussing with experts and stakeholders in the area

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** The Faculty Council analyses the feedback and makes necessary changes and additions.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** collect the feedback from students and discussed in the faculty council and take measures to resolve
- Alumni and employers on the programmes offered and how does the department utilize the feedback?**

We collect the suggestions from the Alumni of this college to revise the curriculum.

43. List the distinguished alumni of the department:

| Sl No. | Name | Current Position |
|--------|----------------------------|---|
| 1. | Dr.T.G.Manojkumar, | Asst. Director, Marine Products Export Development Authority, Kochi |
| 2. | Dr. P.S.Sivaprasad, | Society for Assistance to fisher women Dept. of Fisheries, Govt. of Kerala |
| 3. | Dr.K.Jayalekshmi | Asst.Professor, Kerala University of Fisheries and Oceans, Kochi |
| 4. | Dr.J.Jean Jose | Asst.Professor,Dept.Zoology, S.G.College, Kottarakkara, Kerala |
| 5. | Dr.Eapen Jacob | Asst.Professor, Dept.Zoology, Women's College ,Trivandrum |
| 6. | Dr.B.O.Prasad | Asst.Professor, Dept. of Zoology. ,Kannur University |
| 7. | .Dr.Shilly Elizabeth David | Asst.Professor, Dept of Zoology, Mar Thoma College, Tiruvalla |

44. Give details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

A series of talks and lectures by experts in the field of fisheries and aquaculture are organized to make the students aware of the latest developments in fisheries in general and Aquaculture, in particular.

45. List the teaching methods adopted by the faculty for different programmes:

- Lectures and lab works
- Power-point Presentations
- Demonstrations through models and experiments.
- Homework Assignments
- Seminars and Projects.
- Case-studies on related topics

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

A committee consisting of the teaching faculty of the Institution meet regularly to monitor the progress of the Institution based on the outcome of learning and teaching processes, as well as the infrastructure developments of the Institution.

47. Highlight the participation of students and faculty in extension activities:

- a) Active participation in various environmental issues
- b) Involvement in blood donation programmes
- c) Participation in the transfer of aquaculture technology to the rural public



48. Give details of “beyond syllabus scholarly activities” of the department:

The students and the faculty of the actively participate in all the exhibitions conducted by the Dept. of Fisheries ,Govt. of Kerala, on aquaculture ,through which the students transfer to the common people the much needed information relating to fish keeping, Aquaculture, and Aquaponics. Apart from the above, the institution also involves in

- Scholarly lectures by experts.
- Workshops, seminars and discussion meetings.
- Quiz competitions.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

- One of the faculty members has described one new species of fish *Olyra* from Kerala.
- Contributed much information about the osteological features of cyprinid fishes from the Western Ghats, Kerala.
- Much knowledge generated on study of fish systematic using the modern taxonomic tool Geometric morphometry.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

STRENGTHS

- All courses are offered with full strength of students.
- All faculty with Teaching and Research experience.
- Highly interactive Alumni.
- Recognition of the course from PSC, Govt. of Kerala
- Observation of auspicious days with full co-operation and participation of students guided by the faculty

WEAKNESS

- Insufficient infrastructure.
- No full-fledged aquaculture wet lab, live feed culture lab and bio-chemistry (Fish Technology) lab.
- No hostel facility for girl students.
- Less number of research journals in the library.
- No smart class rooms.

OPPORTUNITIES

- Institute provides ample opportunities for the study of Inland fishery resources of the Western Ghats, Kerala
- Major projects on reservoir fishes, hill stream fishes etc. of the Western Ghats can be undertaken.



- Development of the inland fishery sector in Kerala through the outcome of research projects, and would create much employment opportunities for students.
- Excellent opportunity to study of culture and management of indigenous fresh water ornamental fishes of Kerala
- Excellent opportunity to learn about other branches of life science.

CHALLENGES

- Lack of permanent faculty.
- There are no funded research projects.
- No approved research guide nor Ph.D. programme.
- Keeping students focused in the face of increasing competition in every field.
- Providing useful career guidance to students.

52. Future plans of the department.

- Conduct of short-term manpower training and transfer of technology programmes.
- Establishment of a repository of fresh water fishes of the Western Ghats (a reference centre for Fish Taxonomy).
- Domestication of indigenous ornamental fishes of Kerala.
- To undertake specific research programmes in collaboration with National Fisheries Research Institutes.
- To bring SALS the status of a recognized Fisheries Research Institute under Mahatma Gandhi University.



SCHOOL OF MEDICAL EDUCATION, GANDHINAGAR

| | | | |
|----|--|---|--|
| 1. | Name of the Department | : | School of Medical Education, Mahatma Gandhi University, Gandhinagar |
| 2. | Year of establishment | : | 1983 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <ul style="list-style-type: none"> • BSc Nursing, • BSc MLT • BPT • BMRT • BSc Medical Microbiology • B Pharm • Master of Hospital Administration • Master of Public Health • MSc Medical Anatomy • MSc Medical Documentation • MSc Biomedical Instrumentation • MSc Medical Biochemistry • MSc Medical Microbiology • M Pharm • MPT. |
| 5. | Interdisciplinary programmes and departments involved | : | Nil |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | MSc Nursing. Withdrawal of sanction of the regulatory body |
| 8. | Examination System | : | Annual and semester wise |
| 9. | Participation of the department in the courses offered by other departments | : | Nil |



| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | | Sanctioned | Filled |
|-----|---|--|--|----------------------|------------|--------|
| | | | | Principals | 6 | 7 |
| | | | | Professors | 8 | 0 |
| | | | | Associate Professors | 8 | 7 |
| | | | | Assistant Professors | 20 | 11 |
| | | | | Lecturers | 54 | 84 |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

INSTITUTE OF NURSING EDUCATION, GANDHINAGAR.

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|---------------------------|---------------|-------------------------|--|
| 1 | Prof. Celine Thomas | M Sc Nursing | Professor cum Principal | Obstetrical and Gynaecological Nursing |
| 2 | Mrs. Sherlymol Antomy | M Sc Nursing | Associate Professor | Obstetrical and Gynaecological Nursing |
| 3 | Mrs.Mariamamma P Varghese | M Sc Nursing | Assistant Professor | Mental Health Nursing |
| 4 | Mrs. Pushkala N.R | M Sc Nursing | Assistant Professor | Mental Health Nursing |
| 5 | Mrs Treesamma Peter | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 6 | Mrs. Simmy M Varkey | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 7 | Mr. Biju.S | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 8 | Mrs. Lekshmipriya P.S | M Sc Nursing | Lecturer | Obstetrical and Gynaecological Nursing |
| 9 | Mrs. Sapthami R.S | M Sc Nursing | Lecturer | Community Health Nursing |



| | | | | |
|----|-----------------------|--------------|--------------------------|--|
| 10 | Mrs. Sreeja Mohan | M Sc Nursing | Lecturer | Child Health Nursing |
| 11 | Mrs. Renjini V Thampy | M Sc Nursing | Lecturer | Obstetrical and Gynaecological Nursing |
| 12 | Mrs.Siji George | M Sc Nursing | Lecturer | Child Health Nursing |
| 13 | Mrs.Andrea Brodin | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 14 | Mrs.Hajira Beevi | M Sc Nursing | Lecturer | Community Health Nursing |
| 15 | Mrs.Alinta P Thomas | M Sc Nursing | Lecturer | Child Health Nursing |
| 16 | Mrs.Rosemol M A | M Sc Nursing | Lecturer | Obstetrical and Gynaecological Nursing |
| 17 | Haritha Krishnan | M Sc Nursing | Lecturer | Child Health Nursing |
| 18 | Mrs. Lucy Abraham | B Sc Nursing | Full Time Guest Lecturer | - |
| 19 | Mrs. Kavitha.K | B Sc Nursing | Full Time Guest Lecturer | - |
| 20 | Mrs. Neethu Joslin | B Sc Nursing | Full Time Guest Lecturer | - |
| 21 | Mrs. Jossy John | B Sc Nursing | Full Time Guest Lecturer | - |

INSTITUTE OF NURSING EDUCATION, MANIMALAKUNNU.

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|--------------------|-------------------------|--------------|--------------------------|
| 1 | Ms. Reny Thomas | Professor cum Principal | M.Sc Nursing | Medical Surgical Nursing |
| 2 | Ms. Anu N Baby | Asso. Professor | M.Sc Nursing | Child Health Nursing |
| 3 | Ms. Sheena P.V | Assistant Professor | M.Sc Nursing | Child Health Nursing |
| 4 | Ms. Sumi Zacharias | Lecturer | M.Sc Nursing | Medical Surgical Nursing |



| | | | | |
|----|----------------------------|-----------------------------------|--------------|---------------------------------------|
| 5 | Mr. Saji Joseph | Lecturer | M.Sc Nursing | Mental Health Nursing |
| 6 | Ms. Raji Paulose | Lecturer | M.Sc Nursing | Community Health Nursing |
| 7 | Ms. Daliyamo.M.A | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 8 | Ms. Nirmala V | Lecturer | M.Sc Nursing | Community Health Nursing |
| 9 | Ms. Sheeba C N | Lecturer | M.Sc Nursing | Child Health Nursing |
| 10 | Ms. Abhitha Karun | Lecturer | M.Sc Nursing | Child Health Nursing |
| 11 | Ms. Remya Romina Alexander | Lecturer | M.Sc Nursing | Child Health Nursing |
| 12 | Ms. Sini James | Lecturer | M.Sc Nursing | Obstetrics and Gynaecological Nursing |
| 13 | Ms. Elsa Johnson | Lecturer | M.Sc Nursing | Obstetrics and Gynaecological Nursing |
| 14 | Ms. Soumya Krishnan | Lecturer | M.Sc Nursing | Child Health Nursing |
| 15 | Ms. Jinis Jose | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 16 | Ms. Anitha N.V | Full time internal guest lecturer | B.Sc Nursing | |
| 17 | Ms. Shimy James | Full time internal guest lecturer | B.Sc Nursing | |

INSTITUTE OF NURSING EDUCATION PATHANAMTHITTA

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|-------------------------|---------------------------------|--------------|--------------------------|
| 1 | Mr. Abdul Salam .N | Professor cum Principal | M.Sc Nursing | Community Health Nursing |
| 2 | Mrs. Jomy john | Asso. Professor | M.Sc Nursing | Child Health Nursing |
| 3 | Mrs. Maya P.K | Asst. Professor | M.Sc Nursing | Mental Health Nursing |
| 4 | Mrs. Thushra .G | Lecturer | M.Sc Nursing | Community Health Nursing |
| 5 | Mrs. Ashitha Chandran | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 6 | Mrs. Siyana .M | Lecturer | M.Sc Nursing | OBG |
| 7 | Ms. Rani Meeran | Lecturer | M.Sc Nursing | OBG |
| 8 | Ms. Preethy Mary Mathew | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 9 | Ms. Mini Mathew | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 10 | Ms. Lera Ravi | Lecturer | M.Sc Nursing | OBG |
| 11 | Ms. Renjini Chandran | Lecturer | M.Sc Nursing | OBG |
| 12 | Ms. Nimmy Thadathil | Lecturer | M.Sc Nursing | Child Health Nursing |
| 13 | Ms. Elizabeth George | Full Time Intenal Guest faculty | B.sc Nursing | |
| 14 | Ms. Vishnu Priya | “ | B.sc Nursing | |
| 15 | Ms. Anju .A | “ | B.sc Nursing | |



INSTITUTE OF NURSING EDUCATION NEDUMKANDAM

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|-------------------------|---------------|--------------------------|--------------------------|
| 1 | Mr. Raja.A | M.Sc Nursing | Professor cum Principal | Mental Health Nursing |
| 2 | Mrs. Sampath R | M.Sc Nursing | Asso. Professor | Child Health Nursing |
| 3 | Mrs. Ragina .J | M.Sc Nursing | Lecturer | OBG |
| 4 | Mrs. Sajini Joy | M.Sc Nursing | Lecturer | Child Health Nursing |
| 5 | Mrs. Dhanya M Nair | PhD (Nursing) | Lecturer | Child Health Nursing |
| 6 | Mrs. Sudha .R | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 7 | Mr. Jinto Joy | M.Sc Nursing | Lecturer | Mental Health Nursing |
| 8 | Ms. Ritty Thankachan | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 9 | Mr. Jony Thomas | M.Sc Nursing | Lecturer | Community Health Nursing |
| 10 | Mrs. Shaiby Augustin | M.Sc Nursing | Lecturer | Community Health Nursing |
| 11 | Ms. Jyoyhilekshmi .S | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 12 | Ms. Liya Sarah George | M.Sc Nursing | Lecturer | Child Health Nursing |
| 13 | Ms. Sreekutty Divakaran | M.Sc Nursing | Lecturer | Community Health Nursing |
| 14 | Mr. Saneesh A Thomas | M.Sc Nursing | Lecturer | Mental Health Nursing |
| 15 | Ms. Priyanka P | M.Sc Nursing | Lecturer | OBG |
| 16 | Mrs. Remyamol P S | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 17 | Ms. Jilu | B.Sc Nursing | Full Time Internal Guest | |



| | | | | |
|----|-----------------------|-----------------|---------|--|
| | Maria Jose | | Faculty | |
| 18 | Ms. Roshni Varghese | B.Sc Nursing | “ | |
| 19 | Mrs. Mary George | Post Basic B.Sc | “ | |
| 20 | Mrs. Asha Gopal | B.Sc Nursing | “ | |
| 21 | Mrs. Shreelaya Thomas | B.Sc Nursing | “ | |
| 22 | Ms. Vidya .M | B.Sc Nursing | “ | |

INSTITUTE OF NURSING EDUCATION, PUTHUPPALLY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|----------------------|--------------------------------|---|
| 01 | Prof. Pushpa R. | Professor Cum Principal | M.Sc Nursing (Community Health Nursing) |
| 02 | Yamuna Jose | Asso. Prof. cum Vice-Principal | M.Sc. Nursing Community Health Nursing |
| 03 | Mrs. Reethamma N.T. | Asst. Professor | M.Sc Nursing (Mental Health Nursing) |
| 04 | Mrs.Sindhu Mathew | Assistant Professor | M.Sc Nursing (Child Health Nsg.) |
| 05 | Mrs.Latha P.S. | Sr. Lecturer | M.Sc. Nursing Medical |
| 06 | Mrs. Sonsy Mathew | Lecturer | M.Sc Nursing (Medical Surgical Nursing) |
| 07 | Mrs.Shiby Mathew | Sr. Lecturer | M.Sc. Nursing (Community Health Nsg.) |
| 08 | Mrs. Suma C | Sr. Lecturer | M.Sc Nursing (Mental Health Nursing) |
| 09 | Mrs. Nisha Surendran | Lecturer | M.Sc (Nsg.) |



| | | | |
|----|------------------------------------|---|--|
| | | | OBG Nursing |
| 10 | Mrs.Shazia Noorin Bin Syed Mustafa | Lecturer | M.Sc Nursing (Medical Surgical Nursing) |
| 11 | Mrs.Rajeswari G | Lecturer | M.Sc. Nursing (Community Health Nsg.) |
| 12 | Ms. Remyamol P.S. | Lecturer | M.Sc Nursing (Medical Surgical Nursing) |
| 13 | Mrs. Jincy Abraham | Lecturer | M.Sc Nsg. (OBG) |
| 14 | Mrs. Mariya Jose | Lecturer | M.Sc Nsg. (OBG) |
| 15 | Mrs.Mittu Mathew | Lecturer | |
| 16 | Mrs. Nisha Jose | Lecturer | M.Sc Nsg. (Medical Surgical Nursing) |
| 17 | Mrs.Jyothi Susan Vargheese | Full time Internal Guest lecturer with PG | M.Sc Nursing (Child Health Nsg.) |
| 18 | Mrs. Moby Sara Mathew | Full time Internal Guest Lecturer | B.Sc Nursing |
| 19 | Mrs. Rejani . M.C. | Full time Internal Guest lecturer | B.Sc Nursing |
| 20 | Mrs. Remya Raj | Full time Internal Guest Lecturer | B.Sc Nursing |
| 21 | Mrs. Lini Viswam | Full time Internal Guest lecturer | B.Sc Nursing |

INSTITUTE OF NURSING EDUCATION, PALA

| Sl No | Name, | Designation | Qualification & Specialty |
|-------|------------------|------------------------|--|
| 1. | Mrs. Regi Thomas | Professor Principal | M.Sc Nursing Child Health Nursing |
| 2. | Mrs. Ambili A | Associate Professor | M.Sc Nursing (Medical Surgical Nursing) |



| | | | |
|----|--------------------------|-------------------------------------|---|
| 3. | Mrs. Manju P. Joseph , | Asst. Professor | M.Sc Nursing (Medical Surgical Nursing) |
| 4. | Mrs. Neenu Jose , | Sr. Lecturer | (OBG Nursing)M.Sc Nursing |
| 5. | Mrs. Somy Cyriac , | Sr. Lecturer | M.Sc Nursing (OBG Nursing) |
| 6 | Ms. Diya Mathew | Lecturer on contract | M.Sc Nursing Child Health Nursing |
| 7 | Ms. Anugraha Babu | Lecturer on contract | M.Sc Nursing OBG Nursing |
| 8 | Ms. Honey Zacharias | Lecturer on contract | M.Sc Nursing Community Health Nursing |
| 9 | Ms. Pinku Alphons Joseph | Lecturer on contract | M.Sc Nursing Child Health Nursing |
| 10 | Ms. Riya John | Lecturer on contract | M.Sc Nursing OBG Nursing |
| 11 | Ms. Joicy Joseph | Lecturer on contract | M.Sc Nursing (Medical Surgical Nursing) |
| 12 | Ms. Annamma John | Full time Internal Guest Faculty | B. Sc Nursing |
| 13 | Ms.Alphonsa Jacob | Full time Internal Guest Faculty | B. Sc Nursing |
| 14 | Ms. Lissamma Sebastian | Full time Internal Guest Faculty | B. Sc Nursing |
| 15 | Ms. Ambujam M. B. | Full time Internal Guest Faculty | B. Sc Nursing |
| 16 | Ms. Divya S. | Full time Internal Guest Faculty | B. Sc Nursing |
| 17 | Ms. Bindu R. | Full time Internal | B. Sc Nursing |



| | | | |
|----|--------------------|----------------------------------|---------------|
| | | Guest Faculty | |
| 18 | Ms. Harsha Pradeep | Full time Internal Guest Faculty | B. Sc Nursing |
| 19 | Ms. Hima Soman | Full time Internal Guest Faculty | B. Sc Nursing |
| 20 | Ms. Regin Joseph | Full time Internal Guest Faculty | B. Sc Nursing |
| 21 | Ms. Simi K.K. | Full time Internal Guest Faculty | B. Sc Nursing |

DIVISION OF HEALTH MANAGEMENT, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|--------------------------|-----------------------------|-------------------------|
| 01 | Mr, Regi Ram S | Assistant Professor and HOD | MHM |
| 02 | Dr. Ann Kavitha Mathew | Lecturer | MPH, PhD |
| 03 | Mr. Shibu Puthenparambil | Lecturer | MPH |
| 04 | Mr. Ranjithkumar K | Lecturer | MHA |
| 05 | Ms. Jinu Jose | Lecturer | MPH |
| 06 | Mr. Siby Thomas | Lecturer | MHA |
| 07 | Ms.Greeshma S | Lecturer | MHA |

DEPARTMENT OF BIOMEDICAL INSTRUMENTATION, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|--------------------------|-----------------------------|--|
| 01 | Mr. Nandakumar P.S | Assistant Professor and HOD | MCA |
| 02 | Ms. Sangeetha K. Chinnan | Lecturer | MSc. App. Sc. Biomedical Instrumentation |

**DEPARTMENT OF MEDICAL DOCUMENTATION, GANDHINAGAR**

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------------|---------------------------------|-----------------------------------|
| 01 | Ms. Suma V. Madhavan | Assistant Professor and HOD I/c | M. App. Sc. Medical Documentation |
| 02 | Ms. Swapna p. Kumaran | Lecturer | M. App. Sc. Medical Documentation |

DEPARTMENT OF MEDICAL MICROBIOLOGY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|----------------------------|-----------------|--|
| 1 | Dr.K. M Joseph | Prof. and H.O.D | MBBS,MD (Microbiology) |
| 2 | Ms.Annamma Cherian | Asst. Professor | MSc. Med.Microbiology |
| 3 | Dr. Shini Zacharia | Asst. Professor | MSc. Med.Microbiology M Phil Microbiology PhD Microbiology |
| 4 | Ms. Binu N | Lecturer | MSc. Med.Microbiology |
| 5 | Dr Asha Peter | Lecturer | MSc. Med.Microbiology PhD Microbiology |
| 6 | Ms Georgeena Mariam George | Lecturer | MSc. Med.Microbiology |
| 7 | Mr Shinu Krishnan | Lecturer | MSc. Med.Microbiology |
| 8 | Asalatha R | Lecturer | MSc. Med.Microbiology |
| 9 | Ms Sajmi Sathar | Lecturer | MSc. Med.Microbiology |
| 10 | Ms Anila Gopal | Lecturer | MSc. Med.Microbiology |
| 11 | Ms Radhika Murali | Lecturer | MSc. Med.Microbiology |



DEPARTMENT OF MEDICAL BIOCHEMISTRY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|----------------|--------------------|---------------------------------|------------------------------------|
| 01 | Ms. Sharlet George | Assistant Professor and HOD I/c | MSc Medical Biochemistry |
| 02 | Dr. Sunitha T. K | Lecturer | M. App. Medical Biochemistry, PhD |
| 03 | Shiny Manuel | Lecturer | MSc Medical Biochemistry |
| 04 | Raji K. V | Lecturer | MSc Medical Biochemistry |
| 05 | Aswathy Narayanan | Lecturer | MSc Medical Biochemistry |
| 06 | Athira Prasannan | Lecturer | MSc Medical Biochemistry |
| 07 | Anupama Baby C | Lecturer | M. App. Medical Biochemistry |
| 08 | Sunimol V | Lecturer | MSc Medical Biochemistry |

DEPARTMENT OF MEDICAL ANATOMY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|----------------|-------------------------|---------------------------------|------------------------------------|
| 01 | Dr. Sivaprakash R | Assistant Professor and HOD I/c | BHMS, MHSc CCD |
| 02 | Ms. Ragisha Rajendran | Lecturer | MSc. Anatomy |
| 03 | Ms. Asha K. Appukkuttan | Lecturer | MSc. Anatomy |
| 04 | Ms. Jubeena C. S | Lecturer | MSc. Medical Anatomy |

**DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGY,
GANDHINAGAR**

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|---------------------|-------------|----------------------------------|
| 01 | Dr Jugan J | HOD | PhD Physics, DRP (BARC Mumbai) |
| 02 | Narayanan N | Lecturer | MSc Mathematics, SLET |
| 03 | Sreeja J | Lecturer | MSc Physics, B.Ed, SET |
| 04 | Rakhi J Babu | Lecturer | BMRT, MA (Sociology) |
| 05 | Premjith K R | Lecturer | BMRT, MHRM |
| 06 | Shabina Shamsudheen | Lecturer | BMRT |
| 07 | Sreejith S V | Lecturer | BMRT |

DEPARTMENT OF PHYSIOTHERAPY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|------------------------------|---------------------------------|---|
| 01 | Ms. Priya Accal Thomas | Assistant Professor and HOD I/c | MPT – Cardio |
| 02 | Ms. Resna S | Asst. Professor | BPT |
| 03 | Mr. Jince Augustine | Asst. professor | MPT –Musculoskeletal disorders and sports physiotherapy |
| 04 | Ms. Shyni M | Lecturer | MPT – Community Rehabilitation |
| 05 | Mr. Albeni I.S | Lecturer | MPT – Orthopaedics |
| 06 | Ms. Manjula Sukumari Noonae | Lecturer | MPT – Neuro |
| 07 | Mr. Deepu C. B | Lecturer | MPT – Ortho, M.Phil – Disability |
| 08 | Ms. Ansu Riya George | Lecturer | MPT – Community Rehabilitation |
| 09 | Ms. Prathibha I. Janardhanan | Lecturer | MPT – Neuro |



DEPARTMENT OF PHYSIOTHERAPY, ANGAMALY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|----------------------|---------------------------------|---------------------------|
| 01 | Mr. Sanil Raj P.R | Assistant Professor and HOD I/c | MPT-Neuro |
| 02 | Ms. Kochu Rani Jacob | Assistant Professor | MPT-Orthopaedics |
| 03 | Ms. Ancy Paul | Assistant Professor | MPT-Paediatrics |
| 04 | Ms. Bini Sebastian | Lecturer | BPT |
| 05 | Ms. Binitta Cherian | Lecturer | BPT |
| 06 | Mr. Sudheep K | Lecturer | MPT-Advanced Orthopaedics |
| 07 | Mr. Sujith S | Lecturer | MPT - Orthopaedics |

DEPARTMENT OF MLT, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|--------------------------|---------------------------------|-------------------------|
| 01 | Ms. Sagi TM | Assistant Professor and HOD I/c | MSc MLT |
| 02 | Ms. Anu George | Assistant Professor | BSc MLT |
| 03 | Ms. Soumya P.V | Lecturer | BSc MLT |
| 04 | Ms. Seena MP | Lecturer | BSc MLT |
| 05 | Ms. Jyothishna Dasan | Lecturer | BSc MLT |
| 06 | Ms. Reenu Suja Kuriakose | Lecturer | BSc MLT |

DEPARTMENT OF MLT, PUTHUPPALLY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------|---------------------------------|----------------------------------|
| 01 | Suja Mathews | Assistant Professor and HOD I/c | MSc MLT Clinical Biochemistry |
| 02 | Biju K | Assistant Professor | MSc MLT (Distance) BSc MLT |
| 03 | Sureshkumar K S | Assistant Professor | MSc MLT Clinical Biochemistry |
| 04 | Raji Lal | Lecturer | BSc MLT |
| 05 | Rajani U | Lecturer | BSc MLT |



| | | | |
|----|-----------------------|----------|-------------------------|
| 06 | Maneesha Susan Mathew | Lecturer | BSc MLT |
| 07 | Sabitha S | Lecturer | MSc MLT Biochemistry |
| 08 | Sheeba Jasmine K | Lecturer | MSc MLT Microbiology |

DEPARTMENT OF MLT, ANGAMALY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-------------------------|-----------------------------|--------------------------|
| 01 | Ms. Rani Sreedharan | Assistant Professor and HOD | MSc Medical Microbiology |
| 02 | Ms. Maya K. Mathew | Assistant Professor | MSc MLT |
| 03 | Ms. Shyleja S | Lecturer | BSc MLT |
| 04 | Ms. Soumya Mol ND | Lecturer | BSc MLT |
| 05 | Ms. Vrinda K.P | Lecturer | BSc MLT |
| 06 | Ms. Smitha Sasidharan V | Lecturer | BSc MLT |

DEPARTMENT OF MLT, MANIMALAKUNNU

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|---------------------|---------------------------------|-------------------------|
| 01 | Mr. Prince Thomas | Assistant Professor and HOD I/c | MSc MLT |
| 02 | Ms. Ajitha Mathew | Lecturer | BSc MLT |
| 03 | Ms. Swapna Lukose | Lecturer | BSc MLT |
| 04 | Ms. Soniya Mohandas | Lecturer | MSc MLT |



DEPARTMENT OF PHYSIOLOGY AND NUTRITION, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------------------|---------------------------------|--------------------------|
| 01 | Ms. Saina Thomas | Lecturer and Course coordinator | MSc Home Science, M Phil |
| 02 | Dr. Manjusha G | Lecturer | BHMS |
| 03 | Dr. Anju Antony | Lecturer | BHMS |
| 04 | Dr. R. Rakesh | Lecturer | BHMS |
| 05 | Ms. Chitra Prasad | Lecturer | MSc. Medical Physiology |
| 06 | MS. Vineetha Merin Varghese | Lecturer | MSc. Medical Physiology |

DEPARTMENT OF PHARMACEUTICAL SCIENCE, PUTHUPPALLY

| Sl. No | Name | Designation | Educational Qualification | Specialization |
|--------|-----------------------|--------------------------------|---------------------------|--------------------------|
| 1 | Mr. P. Sri Ganesan | Asst. Professor, Principal i/c | M. Pharm | Pharmaceutics |
| 2. | Dr. Krishna Kumar K R | Associate Professor | M. Pharm, PhD | Pharmaceutical Chemistry |
| 3 | Mr. A. J. Chacko | Asst. Professor | M. Pharm | Pharmaceutics |
| 4 | Dr. Sibi. P. I | Asst. Professor | M. Pharm, PhD | Pharmacology |
| 5 | Mr. Sudhir M R | Senior Lecturer | M. Pharm | Pharmaceutics |
| 6 | Mr. Jayaprakash A P | Senior Lecturer | M. Pharm | Pharmaceutical Chemistry |
| 7 | Mr. Pramod C | Senior Lecturer | M. Pharm | Pharmacy Practice |
| 8 | Mr. Jessy Jacob | Senior Lecturer | M. Pharm | Pharmaceutical Chemistry |
| 9 | Mrs. Bindu. K | Senior Lecturer | M. Pharm | Pharmaceutics |
| 10 | Mr. Beena Thomas | Senior Lecturer | M. Pharm | Pharmaceutical Chemistry |
| 11 | Mr. Paul Jacob | Senior Lecturer | M. Pharm | Pharmaceutical Analysis |



| | | | | |
|----|---------------------------|-----------------------------------|----------|--------------------------|
| 12 | Mr. Sujesh. M | Senior Lecturer | M. Pharm | Pharmacology |
| 13 | Mrs. Elizabeth Abraham. P | Lecturer | M. Pharm | Pharmacology |
| 14 | Mr. Shan. P. Mohammed | Full time Internal Guest Lecturer | M. Pharm | Pharmacology |
| 15 | Mr. Neema George | Full time Internal Guest Lecturer | M. Pharm | Pharmaceutics |
| 16 | Mr. Vijayalakshmi N. J | Full time Internal Guest Lecturer | M. Pharm | Pharmacognosy |
| 17 | Mr. Arun Raj | Full time Internal Guest Lecturer | M. Pharm | Pharmaceutics |
| 18 | Mrs. Anjana T. S | Full time Internal Guest Lecturer | M. Pharm | Pharmaceutical Chemistry |

DEPARTMENT OF PHARMACEUTICAL SCIENCE, CHERUVANDOOR

| SL. No | Name | Designation | Educational Qualification | Specialization |
|--------|----------------------|-------------------------|---|---|
| 1 | Dr. Jyoti Harindran | Principal and Professor | M. Pharm MS(UK) PGDBM, PhD | Pharmacology, plant medicine, Pharmaceutical Sciences |
| 2 | Dr, Anil Kumar N | Asst professor | M. Pharm, PhD | Pharmaceutics |
| 3 | Mrs.Bobby S. prasasd | Senior Lecturer | M. Pharm, (PhD(Thesis Submitted M.G.University) | Pharmaceutical Chemistry |
| 4 | Mr.Sajan Jose | Senior Lecturer | M. Pharm, PhD (submitted), M.G.University | Pharmaceutics |
| 5 | Mrs. Shakeela Yusuf | Senior Lecturer | M. Pharm, | Pharmaceutical Chemistry |
| 6 | Dr. Cinu Thomas A | Senior Lecturer | M. Pharm, PhD | Pharmaceutical Chemistry |
| 7 | Mrs.Bindu A.R | Senior Lecturer | M.Pharm | Pharmacognosy |
| 8 | Mrs. Litty Joseph | Senior Lecturer | M. Pharm | Pharmacology |
| 9. | Mr. Jayachandran T | Senior Lecturer | M.Pharm | Pharmacology |



| | | | | |
|-----|--------------------------------|---|--------------------------|-----------------------------|
| | P | | | |
| 10 | Dr.Veena R | Senior Lecturer | M. Pharm PhD | Pharmacy Practice |
| 11. | Dr.Abdul Vahab A | Senior Lecturer | M Pharm PhD | Pharmacology |
| 12. | Mrs.Ashwathi K.S | Full time Internal Guest Lecturer | M.Pharm- | Pharmaceutics |
| 13 | Dr. Beena Bridget Kuriakose | Full time Internal Guest Lecturer | M.Pharm PhD | Pharmacognosy |
| 14 | Mrs. Anjana Abraham | Full time Internal Guest Lecturer | M.Pharm | Pharmacy Practice |
| 15 | Mrs. Mary Sheeja T.L. | Full time Internal Guest Lecturer | M.Pharm | pharmaceutical Chemistry |
| 16 | Mrs.Sereena Ismail | Full time Internal Guest Lecturer | M.Pharm | Pharmaceutics |
| 17 | Mrs. Smitha John | Full time Internal Guest Lecturer | M.Pharm Pharmaceutics | Pharmaceutics |
| 18 | Mr. SharathSasikumar | Full time Internal Guest Lecturer | M.Pharm | pharmaceutical Chemistry |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: 60
13. Percentage of classes taken by temporary faculty – programme-wise information:
All are temporary faculties
14. Programme-wise Student Teacher Ratio: 10:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : 40
16. Research thrust areas as recognized by major funding agencies : Nil



17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received:1

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil

20. Research facility / centre with

☐ State recognition

☐ National recognition

☐ International recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 15 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 15 |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated: NA



25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other
- b) (please specify) : Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).
- NA

28. Student projects

- ☐ Percentage of students who have done in-house projects including inter-departmental /programme
- Nil
- ☐ Percentage of students doing projects in collaboration with other universities / industry / institute
- Nil

29. Awards / recognitions received at the national and international level by

- ☐ Faculty
- ☐ Doctoral / post-doctoral fellows
- ☐ Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

a) National: 2

b).International:

31. Code of ethics for research followed by the departments : NA



32. Student profile programme-wise:

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|---|-----------------------|----------|----------|-----|-----------------|
| | | | *M | *F | |
| BSc Nursing | 3000 | 300 | 15 | 285 | Above 90% |
| BSc MLT | | 160 | 24 | 136 | Above 90% |
| BPT | | 80 | 20 | 60 | Above 80% |
| B Pharm | | 120 | 30 | 90 | Above 90% |
| BMRT | | 20 | 4 | 16 | Above 90% |
| BSc Medical Microbiology | | 45 | 9 | 36 | Above 90% |
| MHA | 980 | 25 | 4 | 21 | Above 90% |
| MPH | | 20 | 4 | 16 | Above 90% |
| MSc BMI | | 20 | 5 | 15 | Above 90% |
| MSc Medical Documentation | | 25 | 3 | 22 | Above 90% |
| MSc Medical Anatomy | | 10 | 2 | 8 | Above 90% |
| MSc Medical Microbiology | | 10 | 1 | 9 | Above 90% |
| M Pharm | | 30 | 6 | 24 | Above 90% |



33. Diversity of students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|---------------------------|-----------------------------------|---------------------------------|---------------------------|
| BSc Nursing | 100 | 0 | 0 |
| BSc MLT | 100 | 0 | 0 |
| BPT | 100 | 0 | 0 |
| BSc MRT | 100 | 0 | 0 |
| BSc Medical Microbiology | 100 | 0 | 0 |
| B Pharm | 100 | 0 | 0 |
| MPharm | 100 | 0 | 0 |
| MHA | 100 | 0 | 0 |
| MPH | 100 | 0 | 0 |
| Msc BMI | 100 | 0 | 0 |
| MSc Medical Documentation | 100 | 0 | 0 |
| MSc Medical Microbiology | 100 | 0 | 0 |
| MSc Medical Biochemistry | 100 | 0 | 0 |
| MSc Medical Anatomy | 100 | 0 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Students attend these on their own and details are not available.

35. Student progression

| Student progression | Against % enrolled |
|----------------------------------|--------------------|
| UG to PG | 30% |
| PG to M. Phil. | 2% |
| PG to Ph.D. | 2% |
| Ph.D. to Post-Doctoral | Nil 40% |
| Employed | |
| • Campus selection | 30% |
| • Other than campus recruitment | 70% |
| Entrepreneurship/Self-employment | |

36. Diversity of staff : NA

| Student Progression | % against enrolled |
|---------------------------------|---------------------------|
| UG to PG | |
| PG to M.Phil | |
| PG to Ph.D | |
| Ph.D to Post Doctoral | |
| Employed by Campus Selection | |
| • Other than Campus recruitment | |
| • Entrepreneurs | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period Nil**38. Present details of departmental infrastructural facilities with regard to**

| | |
|---|------------|
| a) Library | Available, |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | |
| f) Research laboratories | |

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university :NA

b) from other institutions/universities : NA

40. Number of post graduate students getting financial assistance from the university.

During the current year, 241 students from SC/ST/OEC Category are receiving financial assistance from Government under this institution

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :

The university has pioneered in self-financing education in the health sector way back after lot of studies which resulted in remarkable gains to students and society.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. The centre makes strenuous efforts to improve the quality of teaching by using the latest electronic gadgets. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Regular feedbacks obtained from students helped fine turning of the programmes. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni extend support for the running activities of the School. |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|---------------------|---|
| 1. | Sudhish Manilal | Medical Record Officer, KIMS Alshifa Hospital |
| 2. | Mahesh Madhavan | Head of Biomedical Engineering (Health Technology Management), Aster MIMS Hospital, Calicut |
| 3. | Arunkumar | Quality and Process improvement Associate, Access Health International, Vijayawada |
| 4. | Lincy Margaret | Quality Assurance Officer, National Health Mission, Kerala |
| 5. | Shilpa Raju | Medical Record Technician, Muthoot Medical Centre, Kozhencherry |
| 6. | Mobin Mathew | Medical Records Executive at Rajagiri Hospital Kochi |
| 7. | Solaman Joseph | Lecturer in Anatomy at Crescent College of nursing, Alathur |
| 8. | Shamna Shajahan | Microbiologist at KIMS hospital Trivandrum |
| 9. | Jinu Anna John | Medical Record Librarian at Taluk Hospital, Tripunithura |
| 10. | Rinu Susan Varghese | Physiotherapist at St Thomas Hospital, Chethipuzha |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Student enrichment programmes such as special lectures, workshops and
- Seminars with external experts are conducted in various subjects

45. List the teaching methods adopted by the faculty for different programmes.

Computer assisted instruction, audio-visual aids, seminars, conferences, project study, epidemiological research etc.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The institution periodically assess the

- a) Progress and output its academic programmes
- b) Percentage of students going for higher education as well as employment
- c) Evaluate the success of the training and practical's undertaken by students.

47. Highlight the participation of students and faculty in extension activities.

School health programme, medical camps, health education classes, medical assistance for Sabarimala pilgrims, etc

48. Give details of “beyond syllabus scholarly activities” of the department.

Organising of medical camps, attending of expert lectures, participation in workshops and seminars etc.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Nursing Council, Pharmacy Council, Medical Council of India.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The publications made by the faculty members in several international journals stand testimony to the new knowledge generated by the college.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTH

- Almost all students are being placed on completion of the course.
- Goodwill and reputation.
- Qualified and experienced teachers.
- Tie up with reputed institutions.
- Quality student intake.



WEAKNESS:

- Limitation of infrastructure.
- Lack of own hospital for training.
- Lack of Faculty Improvement Programme.
- Lack of permanent staff in various departments.
- Lack of hostel facility.
- Lack of cooperation from Govt. accreditation bodies.

OPPORTUNITIES:

- High demand of qualified staff in health sector within the country and abroad.
- Mushroom growth of hospitals and public health projects

CHALLENGES:

- Competition from private sector.
- Lack of own hospital for training.
- Lesser number of permanent teachers.
- Lack of international students and twinning programmes.

52. Future plans of the department.

- To start MSc MLT and MSc MRT courses
- To start Pharm-D course
- To start Executive MHA and Executive MPH courses.
- To introduce Diploma/certificate courses for working class people in subjects to health care, biomedical instrumentation, Medical Documentation, etc.
- To start PG programmes in Speech and Hearing and Food and Nutrition
- To set up consultancy services in health care sectors.

MAHATMA GANDHI UNIVERSITY COLLEGES OF TEACHER EDUCATION

| | | | | | |
|-----|---|---|---|------------|--------|
| 1. | Name of the Department | : | Mahatma Gandhi University Colleges of Teacher Education-Main Centre | | |
| 2. | Year of establishment | : | 1992 | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Education | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Two Year B.Ed Degree Course | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | |
| 8. | Examination System | : | Choice based credit system-Semester | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled |
| | | | Principals | 12 | 12 |
| | | | Lecturers | 92 | 91 |
| | | | Instructors | 12 | 8 |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Sl. No. | Name | Qualification | Designation | Specialization | No. of Years of experience | No. of P.hD students guided for the last 6 years |
|---|------------------------|---|-------------------------------|----------------------------|----------------------------|--|
| I.UNIVERSITY COLLEGE OF TEACHER EDUCATION, ELANTHOOR | | | | | | |
| 1. | Dr .Meera Raj | M.Sc, M, Ed UGC NET PhD in Education | Principal | Mathematics Education | 21 | 0 |
| 2. | Dr. Lalamoni P. | M.Sc, M, Ed UGC NET M. Phil PhD in Education | Lecturer in Physical Science | Physical Science Education | 21 | 0 |
| 3. | Smt. Annamma Philipose | M.A, (Eng) M.A (Soc) M, Ed UGC NET | Lecturer in English | English Education | 23 | 0 |
| 4. | Sulochana R | M.Sc, M, Ed | Lecturer in Natural Science | Natural Science Education | 20 | 0 |
| 5. | Dr. Saramma Joy T | M.A, M, Ed PhD | Lecturer in Hindi | Hindi Education | 16 | 0 |
| 6. | Dr. Sreeraj K.G | M.Sc, M, Ed UGC NET | Lecturer in Mathematics | Mathematics Education | 14 | 0 |
| 7. | Rajeevnath K.R | M.A M, Ed UGC NET , M. Phil | Lecturer in Malayalam | Malayalam Education | 15 | 0 |
| 8. | Dr. Manju A | M.Sc, M, Ed, M. Phil PhD in Education | Lecturer in General Education | Physical Science Education | 10 | 0 |
| 9. | Sulochana K | M.A, M, Ed UGC NET | Lecturer in Social Science | Social Science Education | 6 | 0 |
| 10. | Renjith Rajappan | M.A, M, Ed UGC NET SET, CTET | Lecturer in General Education | Social Science Education | 3 | 0 |

| | | | | | | |
|--|---------------------|------------------------------------|--------------------------------|----------------------------|----|---|
| 11. | Santhi M.S | M.Sc, M.Ed | Lecturer in Nat. Science | Natural Science Education | 5 | 0 |
| 12. | Jobie K. John | M. P. Ed | Lecturer in Physical Education | Physical Education | 1 | 0 |
| 13. | Betty Benjamin | M.Com, M.Ed, NET | Lecturer in Commerce | Commerce Education | | |
| II UNIVERSITY COLLEGE OF TEACHER EDUCATION, ERATTUPETTA | | | | | | |
| 14 | Smt. Jancy Lukose | M.Sc, M, Ed | Principal | Natural Science Education | 23 | 0 |
| 15 | Smt. Sameera K | M.A, M, Ed | Lecturer in General Education | Social Science Education | 2 | 0 |
| 16 | Smt Rajani Alex | M.A, M, Ed | Lecturer in General Education | Social Science Education | 13 | 0 |
| 17 | Smt Pausy V.A | M.A, M, Ed | Lecturer in Social Science | Social Science | 2 | 0 |
| 18 | Sri Siby Joseph | M. P. Ed | Lecturer in Physical Education | Physical Education | 14 | 0 |
| 19 | Smt Bhasura K.S | Tailoring Diploma in Craftsmanship | Instructor in SUPW | SUPW | 10 | 0 |
| 20 | Sheeja S | M.A, M, Ed | Lecturer in Malayalam | Malayalam Education | 7 | 0 |
| 21 | Dr. Rosilet Michale | M.Com ,M.Ed M. Phil P. hD | Lecturer in Commerce | Commerce Education | 12 | 0 |
| 22 | Sali A.P | M.A, M, Ed | Lecturer in Arabic | Arabic Education | 2 | 0 |
| 23. | Sri Gopakumar A.P | M.Sc ,M.Ed UGC NET | Lecturer in Physical Science | Physical Science Education | 11 | 0 |
| | | | | | | |



III UNIVERSITY COLLEGE OF TEACHER EDUCATION, KANJIRAPPALLY

| | | | | | | |
|----|--------------------------|-----------------------|--------------------------------------|----------------------------------|----|---|
| 24 | Dr. Rajeena .A | M.Sc ,M.Ed P. hD | Principal | Science Education | 14 | 0 |
| 25 | Smt. Preeja K. Gopal | M.Sc ,M.Ed | Lecturer in Physical Science | Physical Science Education | 10 | 0 |
| 26 | Smt Fousy K.A/M | M.Sc ,M.Ed UGC NET | Lecturer in Mathematics | Mathematics Education | 10 | 0 |
| 27 | Smt. Deepa Kurian | M.A, M, Ed UGC NET | Lecturer in General Education | Social Science Education | 7 | 0 |
| 28 | Smt. Sindhu Sebastian | M.A, M, Ed | Lecturer in Social Science | Social Science Education | 8 | 0 |
| 29 | Sri Philip C.M | M.A, M, Ed | Lecturer in English | English Education | 23 | 0 |
| 30 | Prasanth Kumar | M. P. Ed UGC NET | Lecturer in Physical Education | Physical Education | 2 | 0 |

IV UNIVERSITY COLLEGE OF TEACHER EDUCATION, KUDAMALLOOR

| | | | | | | |
|----|--------------------------|-------------------------------|-------------------------------------|----------------------------------|----|---|
| 31 | Suja. P.Abraham | M.A, M, Ed M. Phil | Principal | Sanskrit Education | 25 | 0 |
| 32 | Dr. Sreekala. K.K | M.A, M, Ed PhD | Lecturer in Social Science | Social Science Education | 18 | 0 |
| 33 | Smt. Lilly George | M.A, M, Ed | Lecturer in Hindi | Hindi Education | 16 | 0 |
| 34 | Smt. Sindhu Sebastian | M.A, M, Ed M. Phil | Lecturer in Malayalam | Malayalam Education | 2 | 0 |
| 35 | Smt. Sheela Mathai | M.Sc, M, Ed UGC NET | Lecturer in Physical Science | Physical Science Education | 15 | 0 |
| 36 | Sri Rajesh P.P. | M.Sc, M, Ed. M, Phil | Lecturer in Natural Science | Natural Science Education | 11 | 0 |
| 37 | Dr. Letha R | M.Sc, M, Ed UGC NET PhD | Lecturer in General Education | Science Education | 11 | 0 |



| | | | | | | |
|--|--------------------------|---|--------------------------------------|----------------------------------|----|---|
| 38 | Smt. Blossom R. Nair | M.A, M, Ed M. Phil UGC NET | Lecturer in General Education | General Education | 21 | 0 |
| 39 | Sri Arunlal R | M.P.Ed | Lecturer in Physical Education | Physical Education | 1 | 0 |
| 40 | Smt. Bindhu P.C | Diploma in Agriculture B. Sc Botany | Instructor in SUPW | SUPW | 15 | 0 |
| 41. | Dr. Anila Anna Mani | M.Sc, M, Ed UGC NET PhD | Lecturer in Mathematics | Mathematics Education | 15 | 0 |
| V UNIVERSITY COLLEGE OF TEACHER EDUCATION, KUMILY | | | | | | |
| 42 | Dr. Sosamma Varughese | M.Sc, M, Ed UGC NET PhD | Principal | Natural Science Education | 21 | 0 |
| 43 | Sri Shaji R.K | M.Sc, M, Ed UGC NET | Lecturer in Mathematics | Mathematics Education | 21 | 0 |
| 44 | Sri Sreekumar S | M.A M, Ed | Lecturer in Social Science | Social Science Education | 9 | 0 |
| 45 | Sri Jayan M.S | M.P.Ed, UGC NET M. Phil | Lecturer in Physical Education | Education | 4 | 0 |
| 46. | Smt. Lincymol P | M.Sc, M, Ed | Lecturer in Physical Science | Physical Science Education | 3 | 0 |
| 47. | Smt Preetha P.K | M.Sc, M, Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 3 | 0 |
| 48. | Bindhu V.K | M.Sc, M, Ed UGC NET | Lecturer in General Education | Science Education | 1 | 0 |
| V I UNIVERSITY COLLEGE OF TEACHER EDUCATION, THODUPUZHA | | | | | | |
| 49 | Dr. Omana T.P | M.A, M, Ed UGC NET PhD | Principal | Social Science Education | 24 | 0 |
| 50 | Smt. Shakkeela K | M.A, M, Ed | Lecturer in General Education | General Education | 15 | 0 |
| 51 | Bindu C.R | M.A, M, Ed UGC NET | Lecturer in Malayalam | Malayalam Education | 9 | 0 |
| 52 | Ravikumar K.V | M.Sc, M, Ed UGC NET | Lecturer in General | Natural Science | 13 | 0 |



| | | | | | | |
|---|-------------------------|---------------------------------|--------------------------------|----------------------------|----|---|
| | | | Education | Education | | |
| 53 | Sreejith K. Nair | M.Sc, M, Ed | Lecturer in Mathematics | Mathematics Education | 13 | 0 |
| 54 | Smt. Praseela P | M.Sc, M, Ed UGC NET | Lecturer in Physical Science | Physical Science Education | 7 | 0 |
| 55. | Smt Shiji A.C | M.Sc, M, Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 10 | 0 |
| 56. | Thomas. N. Issac | M.P.Ed, M.Phil M.A | Lecturer in Physical Education | Physical Education | 14 | 0 |
| 57 | Aneesha Ismail | M.Sc, M, Ed UGC NET | Lecturer in General Education | Mathematics Education | 4 | 0 |
| V II UNIVERSITY COLLEGE OF TEACHER EDUCATION, MUVATTUPUZHA | | | | | | |
| 58 | Dr, Jayasree P.G | M.Sc, M, Ed UGC NET PhD | Principal | Mathematics Education | 16 | 0 |
| 59 | Smt Rosily M.P | M.Sc, M, Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 17 | 0 |
| 60 | Girija M.S | M.A, M.Ed M.Phil | Lecturer in Malayalam | Malayalam Education | 21 | 0 |
| 61 | Smt. Minimol Sreedharan | M.Sc, M,Ed, M.A UGC NET | Lecturer in General Education | Mathematics Education | 18 | 0 |
| 62 | Smt. Minimol K | M.A, M.Ed UGC NET | Lecturer in General Education | English Education | 20 | 0 |
| 63 | Haseena Beegum | M.A, M.Ed | Lecturer in English | English Education | 3 | 0 |
| 64 | Mahin. K. Aliyar | M.A, M.Ed UGC NET | Lecturer in Social Science | Social Science Education | 9 | 0 |
| 65 | Smt Rajitha P.R | M.A, M.Ed | Lecturer in Hindi | Hindi Education | 10 | 0 |
| 66 | Dr Mohandas M.K | M.A, M.Ed P.hD | Lecturer in Sanskrit | Sanskrit Education | 3 | 0 |
| 67. | Dr .Pramod K.G | M.P.Ed, M.Phil, PhD, UGC NET | Lecturer in Physical Education | Physical Education | 1 | 0 |

| V III UNIVERSITY COLLEGE OF TEACHER EDUCATION, PAIPPAD | | | | | | |
|--|---------------------------|------------------------|--------------------------------|---------------------------|----|---|
| 68. | Smt. Sheena Karim | M.A, M.Ed | Principal | Social Science Education | 16 | 0 |
| 69. | Dr. Lali S | M.Sc, M. Ed PhD | Lecturer in General Education | General Education | 17 | 0 |
| 70. | Smt Thara K.S | M.Sc, M. Ed UGC NET | Lecturer in Mathematics | Mathematics Education | | |
| 71. | Sri Sunny raj | M.A, M.Ed | Lecturer in Social Science | Social Science Education | 12 | 0 |
| 72. | Smt Ajitha Kumary T | M.Sc, M.Ed UGC NET | Lecturer in General Education | General Education | 12 | 0 |
| 73. | Smt Resmi K.S | M.Sc, M.Ed UGC NET | Lecturer in General Education | General Education | 12 | 0 |
| 74. | Geetha Narayanan V | M.Sc, M.Ed | Lecturer in Natural Science | Natural Science Education | 6 | 0 |
| 76. | Smt. Swapna Purushothaman | M.A, M.Ed | Lecturer in English | English Education | 7 | 0 |
| 77. | Vijayan P.S | M.P.Ed | Lecturer in Physical Education | Physical Education | 12 | 0 |
| 78 | Subhash R | Diploma in Music | Instructor in Music | Music | 10 | 0 |
| 79 | Smt. Soudamol P.I | M.A, M.Ed | Lecturer in General Education | General Education | 2 | 0 |
| IX UNIVERSITY COLLEGE OF TEACHER EDUCATION, NEDUMKANDAM | | | | | | |
| 80. | Dr. Anvar .K | M.A, M.Ed UGC NET Ph.D | Principal | Social Science Education | 15 | 0 |
| 81. | Dr. Solly V.G | M.A, M.Sc, M.Ed, P. hD | Lecturer in General Education | General Education | 15 | 0 |



| | | | | | | |
|---|---------------------|--|--------------------------------|----------------------------|----|---|
| 82 | Sri Roy Mathew | M.P.Ed | Lecturer in Physical Education | Physical Education | 14 | 0 |
| 83 | Smt. Renimol K.G | M.Sc, M.Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 8 | 0 |
| 84 | Smt. Liya P | M.A, M.Ed | Lecturer in Social Science | Social Science Education | 2 | 0 |
| 85 | Smt. Bindhu R | Diploma in Civil Engineering | Instructor in SUPW | SUPW | 15 | 0 |
| 86 | Smt Geethumol P.K | M.A, M.Ed | Lecturer in Malayalam | Malayalam Education | 3 | 0 |
| 87 | Sri Suresh Babu G | M.A, M.Ed | Lecturer in General Education | General Education | 2 | 0 |
| 88 | Smt Sreelekha Menon | M.Sc, M.Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 15 | 0 |
| X UNIVERSITY COLLEGE OF TEACHER EDUCATION , VAIKOM | | | | | | |
| 89 | Smt Sudha K.S | M.A, M.Ed | Principal | Social Science Education | 15 | 0 |
| 90. | Dr. Sunil Job K.A | M.Sc, M.Ed UGC NET | Lecturer in General Education | Science Education | 20 | 0 |
| 91. | Dr. Sreenivasan K.K | M.A, M.Ed PhD | Lecturer in Malayalam | Malayalam Education | 2 | 0 |
| 92 | Dr, Manoj A.V | M.Sc, M.Ed UGC NET PhD | Lecturer in Natural Science | Natural Science Education | 15 | 0 |
| 93 | Asha Mohanan | M.Sc, M.Ed UGC NET M.Phil | Lecturer in Social Science | Social Science Education | 7 | 0 |
| 92 | Dr. Rangyny K.R | M.Com, M.Ed UGC NET, SET, JRF, PhD | Lecturer in Commerce | Commerce Education | 8 | 0 |
| 94. | Sri. Shibu D | Diploma in Music | Instructor in Music | Music | 16 | 0 |
| 95 | Ceby George | M.P.Ed | Lecturer in Physical Education | Physical Education | 1 | 0 |
| 96. | Rajasree S | M.Sc, M.Ed, PhD, NET,SET | Lecturer in Physical Science | Physical Science Education | 2 | 0 |

XI UNIVERSITY COLLEGE OF TEACHER EDUCATION, TRIPPUNITHURA

| | | | | | | |
|-----|------------------------|----------------------|--------------------------------------|----------------------------------|----|---|
| 97. | Smt Suja K.K | M.A, M.Ed | Principal | Social Science Education | 18 | 0 |
| 98 | Smt Resma P.R | M.A, M.Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 12 | 0 |
| 99 | Smt.Sreeja S.Kaimal | M.Sc, M.Ed, NET | Lecturer in Physical Science | Physical Science Education | 12 | 0 |
| 100 | Smt Ganga P.S | M.Sc, M.Ed, NET | Lecturer in General Education | Mathematics Education | 8 | 0 |
| 101 | Smt Haripriya | M.A, M.Ed | Lecturer in Malayalam | Malayalam Education | 2 | 0 |
| 102 | Smt Rajani R | M.A, M.Ed, M.Phil | Lecturer in Sanskrit | Sanskrit Education | 2 | 0 |
| 103 | Sri Jayachandran | M.P.Ed | Lecturer in Physical Education | Physical Education | 15 | 0 |
| 104 | Rijosh George | M.Sc, M.Ed, NET | Lecturer in Mathematics | Mathematics Education | | |

XII. UNIVERSITY COLLEGE OF TEACHER EDUCATION, THOTTAKKAD

| | | | | | | |
|------|-------------------------|------------------------------------|-------------------------------------|----------------------------------|----|---|
| 105 | Dr. Sreelatha Amma R | M.A, M.Ed, PhD | Principal | English Education | 29 | 0 |
| 106 | Smt Pearly Jacob | M.A, M.Ed ,UGC NET JRF | Lecturer in English | English Education | 21 | 0 |
| 107 | Sri Pradeep Kumar S | M.A, M.Ed | Lecturer in General Education | General Education | 12 | 0 |
| 108 | Sreekala V.M | M.Sc, M.Ed ,UGC NET, M, Phil | Lecturer in Natural Science | Natural Science Education | 12 | 0 |
| 109 | Babitha Merin John | M.Sc, M.Ed ,UGCNET | Lecturer in Physical Science | Physical Science Education | 10 | 0 |
| 110. | Sinu K.R | Diploma in Music | Instructor in Music | Music | 16 | 0 |



| | | | | | | |
|------|----------------|---|--------------------------------------|------------------------|----|---|
| 111 | Bindhuraj K | M.A, M.Ed, M.Phil | Lecturer in Malayalam | Malayalam Education | 12 | 0 |
| 112. | Sajeev C. Nair | M.P.Ed, M.Phil, P.G Diploma in Yoga | Lecturer in Physical Education | Physical Education | 5 | 0 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil

13. Percentage of classes taken by temporary faculty – programme-wise information: Nil

14. Programme-wise Student Teacher Ratio

B.Ed : 12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

- 103

16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

- Nil

17. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

-Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

- Nil

20. Research facility / centre with

- Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publications:

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : NA

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 05 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 04 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 09 |

a). National committees :

| Sl. No. | Name of the faculty | Committee |
|---------|--|--|
| 1 | Dr. Anvar K, Principal, University College of Teacher Education, Nedumkandam | <ul style="list-style-type: none"> Life Member, Council for Teacher Education (CTE), Joint Secretary in Kerala Chapter Life Member and Member of executive committee in Kerala Chapter, Indian Adult Education Association. (IAEA) Life Member, Member of executive committee in Kerala Chapter Commonwealth Council for Educational Administration and Management (CCEM) Life Member and Member of executive committee in Indian Association of Life Skill Education (IALSE) Life member of All India Association for Educational Research, (AIAER) Life member of Mental Health Action by People (MAP) |
| 2. | Dr. Jayasree P, Principal, University College of Teacher Education, Muvattupuzha | <ul style="list-style-type: none"> Life Member, Council for Teacher Education (CTE) Joint Secretary in Kerala Chapter. |

b) International committees : Nil

c) Editorial Boards: Nil

d) Any other:

| Sl No. | Name of the faculty | Committee |
|--------|---|--|
| 1 | Dr. Jayasree P, Principal, University College of Teacher Education, Muvattupuzha | <ul style="list-style-type: none"> Member of the Board of studies in Education ,Mahatma Gandhi University |
| 2 | Dr. Sreelatha Amma R, Principal, University College of Teacher Education, Thottakkad | <ul style="list-style-type: none"> Chairman of the Board of studies in Education, Mahatma Gandhi University |



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

Workshops:

- o Workshop on Curriculum revision Organised by Board of Studies in Education, M.G University , May 4th -8th , 2015

Orientation programmes: Nil

28. Student projects :

- i. Percentage of students who have done in-house projects including inter- departmental projects: Nil
- ii. Percentage of students doing projects in collaboration with other universities / industry / institute: 100%

29. Awards / recognitions received at the national and international level by : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.: Nil

31. Code of ethics for research followed by the departments - NA

32. Student profile programme-wise:

| Name of the Course/ programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|--------------------------|----------|----------|-----|--------------------|
| | | | *M | *F | |
| 2 year B.Ed Degree Course | 8882 | 600 | 120 | 480 | 100 |

33: Diversity of students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|---------------------------|---|------------------------------------|------------------------------|
| 2 year B.Ed Degree Course | 98 | 2 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

NET: 22

SLET: 23

35. Student progression

| Student progression | Against % enrolled |
|----------------------------------|-----------------------|
| UG to PG | 35% |
| PG to M. Phil. | Not applicable |
| PG to Ph.D. | Not applicable |
| Ph.D. to Post-Doctoral | Not applicable 40% |
| Employed | 25% |
| • Campus selection | 40% |
| • Other than campus recruitment | |
| Entrepreneurship/Self-employment | |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------------|
| Of the same university | 85% |
| From other universities within the state | 12% |
| From universities from other State | 03% |
| From Universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 20

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|--|
| a) Library | Yes, 61767 |
| b) Internet facilities for staff and students | Provided |
| c) Total number of class rooms | |
| d) Class rooms with ICT facility | 12 (One Smart Classroom in each college) |
| e) Students' laboratories | 36 (3 Laboratories in each college) |
| f) Research laboratories | -- |



39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university : Nil

b) from other institutions/universities : Nil

40. Number of students receiving financial assistance from college, university, government or other agencies.

During the current year, altogether in the 12 institutions 208 students from SC/ST/OEC Category are receiving financial assistance from Kerala Government.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

Yes, The potential of the programme is assessed through discussions with experts, members of the alumni, corporate executives etc.

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes .The expert advice and the suggestion of the faculty is always accepted. Frequent workshops and discussions are convened for the enrichment of the curriculum as well as teaching-learning-evaluation. Some of the faculty are members of the Board of Studies of Education .Most of the faculty participated in the new 2 year B.Ed curriculum revision. The colleges have an active feedback system. The action points identified are acted upon promptly. Feedback from teachers is elicited largely at staff council meetings.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. The feedback and suggestions on the curriculum and teaching-learning-evaluation can be communicated through university website.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. The feedback is duly considered at the time of curriculum revision

43. List the distinguished alumni of the department (maximum 10):

| SI No. | Name | Current Position |
|--------|------------------|--|
| 1. | Sundaran Konadan | Assistant Manager, Life Insurance Corporation of India, Kalpetta |
| 2. | Saju Varghese | Circle Inspector of Police, Pampady |
| 3. | Shine | Deputy Director of Education, Govt of Kerala |
| 4. | Arshad A | Circle Inspector of Police, Mullapperiyar |
| 5. | Arun Zachariah | Ssst Director, IT department , Govt. of Kerala |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Student enrichment programmes such as special lectures, workshops and Seminars with external experts are conducted in various subjects

45. List the teaching methods adopted by the faculty for different programmes.

Computer assisted instruction, ICT Enabled teaching learning process project method heuristic method etc. Adopted to improve student learning

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Recurring monitoring, presentations of papers, written examination, participation in discussions, interventions during seminars

47. Highlight the participation of students and faculty in extension activities.

Expertise of faculty is benefitted by schools in the neighbourhood. Counselling and awareness classes are conducted to the benefit of PTA of neighbouring Schools. Study materials, uniforms and umbrella are given to the poor students of the locality. One day community living camp is organized and several awareness programmes on lifestyle diseases, communicable diseases, fire and safety, legal literacy first aid etc. are organized Social surveys on relevant issues are conducted in Tribal Colonies. Street plays, flash mobs etc. are also conducted.

48. Give details of “beyond syllabus scholarly activities” of the department.

- Nil

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

-Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The Publications of the faculty, faculty and student projects etc stands testimony to the academic contribution of UCTE.



51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTH

Experienced fully qualified faculty is the strength of the institution .Since the admission process is done following the community reservation norms of Government, under privileged students of the downtrodden society get chance for higher education .As social institutions, University Colleges of Teacher Education are receiving full support from local bodies for their infra structural developments.

Weakness

Lack of hostel facility and lack of institutional conveyance facility are the weakness which the institutions face.

Opportunities

The students who have completed B.Ed Course are well placed in India as well as abroad.

Challenges

Students have reluctance to join for B.Ed Programme due to the enhancement of the duration of the course from one year to two year. As school students are well equipped with computer skills, teacher trainees are to be more trained in the use of computer and other advanced technology.

52. Future plans of the department.

- To start M.Ed programme in its different centres.
- To enhance the infrastructural facilities in the institution.

SCHOOL OF COMMUNICATION AND JOURNALISM

| | | | |
|-----|---|---|---|
| 1. | Name of the Department | : | School of Communication and Journalism |
| 2. | Year of establishment | : | 1995 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | MCJ programme, recently renamed as MAJMC (Master of Arts in Journalism and Mass Communication) as per UGC norms. |
| 5. | Interdisciplinary programmes and departments involved | : | Involved in the major activities of other Departments |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | Semester, Choice Based Credit System Started from 2016 academic year onwards |
| 9. | Participation of the department in the courses offered by other departments | : | Students are given ample opportunity to attend courses offered by other schools and centres as open courses |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | The Director and Teachers are working on contract basis as it is a self-financing programme. But appointments are on the basis of UGC norms. Director – Male (Contract) Lecturer – 1 female(Contract) Lecturer -1 male (Contract) Lecturer – 1 male (Guest) |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|----------------------------------|--|--------------------|-----------------------|-----------------------------------|---|
| Prof.Madavana Balakrishna Pillai | Appointed directly Professor and Director as an outstanding Scholar as per UGC norms. 23 years of Journalistic Experience LLM. | Director | Media Activities | 21 years | |
| Dr. Ligimol P. Jacob | MCJ, PhD. | Lecturer | Cinema | 17 | |
| Gilbert A.R | MCJ,PGDPR | Lecturer | Public Relations | 5 | |
| Abhilash G | MCJ,NET | Lecturer | New Media | 1 | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl.No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|--------------|--|--|--------------------------|
| 1. | K.JayaKumar, Vice-Chancellor, Malayalam University | Adjunct faculty | Literature and Film |
| 2. | Dr. J.V Vilanilam, Former Vice-Chancellor, Kerala University | Adjunct faculty | Journalism-Communication |
| 3. | Dr. K.V Nagaraj Pro-Vice Chancellor Assam Central Universities | Adjunct faculty | Media Theories |
| 4. | Dr. Sucheta Nair, PVC, Sanskrit University, Kalady | Adjunct faculty | Media Theories |
| 5. | Thomas Jacob, Editorial Director, Malayala Manoram | Adjunct faculty | Print Media |

| | | | |
|----|--|-----------------|-------------|
| 6. | C.P Rajasekaran, Former Director, Doordarshan. | Adjunct faculty | Television |
| 7. | C. Siva Prasad, Film Director | Adjunct faculty | Film Making |
| 8. | P.Raveendran, Former Director, All India Radio | Adjunct faculty | Radio |

13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programme | Percentage |
|------------|------------|
| MCJ /MAJMC | 20% |

14. Programme-wise Student Teacher Ratio

MCJ 15:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | | 1 |
| Administrative Staff | | 1 |

16. Research thrust areas as recognized by major funding agencies

- Literature and Film
- Journalism- Communication
- Media Theories
- Print Media

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

Nil



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- ☐ State recognition : Yes
- ☐ National recognition : Yes
- ☐ International recognition:No

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|--|
| 1. | Refereed Journal Publications | 4 |
| 2. | Monographs | |
| 3. | Conference Proceedings | 2 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | 10 By Director |
| 6. | Books authored with ISBN | 8 By Director |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | More than 10,000 articles by Director |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Director is associated with Universities and Media Houses National level

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Name of institution |
|---------|----------------------------------|--|
| 1. | Prof.Madavana Balakrishna Pillai | 1. UGC NET, Various Universities, Colleges and Media Organisations |
| 2. | Dr. Ligimol P Jacob | 2. Examinations of other Universities |
| 3. | Gilbert A.R | 3. Examinations of other Universities |

26. Faculty serving in

a) National committees

| Sl. No. | Name of the faculty | Name of institution |
|---------|-----------------------------------|---|
| 1. | Prof. Madavana Balakrishna Pillai | Associated with UGC-NET, CBSE, JEE, State-Central Universities all over India |

b) International committees

| Sl. No. | Name of the faculty | Name of institution |
|---------|-----------------------------------|--|
| 1. | Prof. Madavana Balakrishna Pillai | Visited many Universities outside India including MIT, Oxford, Cambridge |

c) Editorial Boards

| Sl. No. | Name of the faculty | Name of institution |
|---------|-----------------------------------|--|
| 1. | Prof. Madavana Balakrishna Pillai | Deepika Daily, Mangalam Daily, Prathichaya Weekly, Vartha etc. |

a) d) any other (please specify) Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Orientation programs, workshops and Training programs.

28. Student projects

- ☐ Percentage of students who have done in-house projects including inter-departmental projects:

100% of MCJ Students are doing projects.

- ☐ Percentage of students doing projects in collaboration with other universities / industry / institute:

Nil

29. Awards / recognitions received at the national and international level by

- ☐ Faculty

| Sl. No. | Name of the faculty | Details |
|---------|-----------------------------------|---|
| 1. | Prof. Madavana Balakrishna Pillai | <ul style="list-style-type: none"> • Lions International Award for Journalism and Public Services • Bharat Gaurav National Award for Journalism and Social Work which was recently received in New Delhi • Swadeshbhimani award • Annie Besant award • Siva Ram award • Benjamin Bailey award • Bishop Vayalil award • G Smaraka award • Pothan Joseph award, etc. |



☐ **Doctoral / post doctoral fellows : Nil**

☐ **Students**

| Sl. No. | Name of the students | Details |
|---------|----------------------|--|
| 1 | Ms. Cicy Jacob | Mathrubhumi- State Government Fellowship |
| 2 | Pinky Baby | Malayala Manorama- Consumer Award |
| 3 | Manu C Kumar | Manorama TV - Birla Media Award |
| 4 | Sameer Mohammed | Malayala Manorama- Sports award |
| 5 | P.J Jose | Mathrubhumi- Sports Award |
| 6 | Fousiya Mustafa | Mathrubhumi TV- State Media Award |

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| SL.No | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|-------|--|-------------------|--------------------------|
| 1 | Media Seminars | M.G University | Excellent |
| 2 | Editors Meet | M.G University | Well attended |
| 3 | Reporters Meet | M.G University | Well attended |
| 4. | Video Workshop cum Production | M.G University | Well attended |
| 5. | Editing Workshop cum Vartha Publication Production | M.G University | Well attended |

State level Seminar and Workshop are conducting periodically with the assistance of the University.

31. Code of ethics for research followed by the departments:

As per UGC and other recognized norms, our students are trained in research methodology and thereafter they are assigned to prepare Dissertation Projects.

32. Student profile programme-wise: (2012-2015)

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| MCJ –(2012-2013) | 153 | 35 | 13 | 22 | 100% |
| MCJ –(2013-2014) | 130 | 35 | 12 | 23 | 100% |
| MCJ-(2014-2015) | 118 | 35 | 11 | 24 | 100% |
| MCJ- (2015-2016) | 163 | 30 | 4 | 26 | |

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| MCJ | 45% | 63% | 2% | Nil |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Period 2010-15

| Sl.No | NET/ JRF Qualified | GATE | SET | Others |
|-------|---------------------------------|-------|----------------------------|--------|
| 1. | average 5 candidates every year | ----- | about 10 students per year | ---- |

35. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| PG to M.Phil. | 5% |
| PG to Ph.D. | 15% |
| Ph.D. to Post-Doctoral | Nil |
| Employed | |
| <input type="checkbox"/> Campus selection | 30% |
| <input type="checkbox"/> Other than campus recruitment | 70% |
| Entrepreneurs | |

36. Diversity of staff

| | |
|--|-----|
| Percentage of faculty who are graduates of the same university | 50% |
| from other universities within the State | 50% |
| from universities from other States | Nil |
| from universities outside the country | Nil |



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: One

| Sl. No. | Name of the faculty | Details |
|---------|---------------------|--------------------------------|
| 1 | Dr. Ligimol P Jacob | PhD from University of Mysore. |

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|------------|
| a) Library | 1113 Books |
| b) Internet facilities for staff and students | Yes |
| c) Total number of class rooms | 2 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | 1 |
| f) Research laboratories | Nil |

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university: Nil
- b) from other institutions/universities: Nil

40. Number of post graduate students getting financial assistance from the university:

SC/ST, Single girl child Scheme financial assistance from the Governments

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, The potential of the programme is assessed through discussions with experts, members of the alumni, corporate executives etc.

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes, Making the Teaching methodology up to date. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Feedback from the students. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Feedback from the Alumni and employers (Media houses). |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|--------------------------|-------------------|
| 1. | Dr. Priyamol | IIS |
| 2. | T G Biju | Times of India |
| 3. | Biju Govind | The Hindu |
| 4. | Soyesh H | The Hindu |
| 5. | Prasanth Menon | Times of India |
| 6. | Shailesh Viswanath Menon | Times of India |
| 7. | Anto T | Times of India |
| 8. | Nishad VH | India Today |
| 9. | Shameer KK | Malayala Manorama |
| 10. | Jose PJ | Mathrubhumi |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Regularly we are engaging the students with Experts from Newspapers, Radio, Television, Public Relations and other branches of knowledge.
- Students regularly attended special lectures invited by different schools and centres.

45. List the teaching methods adopted by the faculty for different programmes:

By using Camera, Video Camera, Power Point Slide shows, Newspapers, Photographs, Films etc.



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The students of the School are the most sought after budding journalists for the media. Our students are enrolled in Indian Information Service (IIS), Public Relation activities of various organizations, Content writers of MNCs, Faculty members of Universities, Colleges and Higher Secondary Schools etc.

47. Highlight the participation of students and faculty in extension activities.

By participating in media seminars, involving in media and social service activities etc.

48. Give details of “beyond syllabus scholarly activities” of the department:

Writing Articles, Participating Programmes in Television and Radio, Producing Magazines and Documentary Films.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Yes, Other Universities and media organisations both in private and public sectors.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

As mentioned students of our school dominate in media activities inside and outside India. Almost all newspapers and channels are dominated by our students.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths:

1. The curriculum is designed as practical oriented.
2. Very good employment prospects to the students in most of the media and allied organisations.
3. Almost all faculty members of Journalism of various universities, colleges, higher secondary schools are dominated by students of the School.
4. Excellent results in competitive examinations like UGC-NET, SET, IIS etc.

Weaknesses

1. Frequent changes in the nomenclature of the department as –SCIS, SCJ, DCJ, and again SCJ.
2. The name of the programme also changed several times as- MJC, MCJ, and now MAJMC.
3. As in the self-financing stream, faculty members are given less remuneration.
4. Lack of sufficient space is not available for student’s activities, retiring room, studio etc.

Opportunities

1. The School can be converted into one of the best in the country if more physical infrastructure and reasonable remuneration are provided.

Challenges

1. To equip the students with the most modern needs of the news mongering society.

52. Future plans of the department.

- The construction of the Academia Convergence Complex at the campus where the school will be given 6000 sq.ft space is progressing. After shifting to the new premises, the school can start new UG programmes and install new technological tools for making the department more active.



DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

| | | | | | | |
|-----|---|---|---|--------------------|--------------------|-----------------------------|
| 1. | Name of the Department | : | Department of Library and Information Science | | | |
| 2. | Year of establishment | : | 1995 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | UG (BLISc), PG (MLISc) | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Semester (Choice based Credit System) | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 1 | 1 | 5 |
| | | | Associate Professors | 3 | 3 | 2 |
| | | | Asst. Professors | 9 | 9 | 6 |
| | | | Others Lecturer | Contract Faculty-5 | Contract Faculty-4 | NA |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. Students guided for the last 6 years |
|----------------------|----------------------------------|----------------------------|---|----------------------------|---|
| Ms. Kavitha Chandran | MLISc., JRF/NET, BLISc, BSc | HOD in charge and Lecturer | Library Classification | 5 Years | - |
| Mrs. Vidya T | MLISc, BLISc, MCom., | Lecturer | Library Cataloguing | 5 years | - |
| Mr. Anish I | MLISc, PGDLAN, B.Ed., | Lecturer | Library Management | 5 Years | - |
| Mrs. Ushakumari M C | MLISc, PGDLAN, BLISc, MSc, B.Ed. | Lecturer | Information Knowledge and Communication | 2 Years | - |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil

13. Percentage of classes taken by temporary faculty – programme-wise information:
Contract basis-100%

14. Programme-wise Student Teacher Ratio

- BLISc : 12: 1
- MLISc : 7: 1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | Nil | Nil |
| Administrative Staff | Nil | 2 |

16. Research thrust areas as recognized by major funding agencies:

Nil

17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration : Nil



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with: Nil

- ☐ State recognition
- ☐ National recognition
- ☐ International recognition

20. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publication:

| Sl. No | Publications | Total |
|--------------|----------------------------------|----------|
| 1. | Refereed Journal Publications | 4 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 4 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| Total | | 8 |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated: NA

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other : Nil



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- Provided opportunities for those who wish to attend orientation/refresher courses on basic and advanced pedagogy.
- Arranged programmes in the department on e-learning.
- Organized research colloquium for the faculty thus enhancing the process of peer learning.
- Purchase new books, journals and e-resources for the department library to ensure a climate conducive to advanced learning.
- Created more avenues for faculty members to visit universities abroad by entering into faculty exchange programmes with such universities.
- Motivate teachers to acquire higher/additional qualifications such as PhD, diploma and certificate programs for empowering them with knowledge and wisdom.
- Provides infrastructural and secretarial assistance to teachers taking up research projects of various agencies.
- Accelerate the IRG (Institutional Revenue Generation) for supporting the mini research projects of the faculty.
- Support the faculty to publish their research reports and articles.
- Further, with a view to motivating the faculty for better performance, the department recognizes meritorious faculty as per the following criteria: 1) Teaching-Learning & Evaluation, 2) Research, Consultancy & Extension, 3) Student Support & Progression.

28. Student projects

- ☐ Percentage of students who have done in-house projects including inter-departmental projects-100%
- ☐ Percentage of students doing projects in collaboration with other universities / industry / institute
Nil

29. Awards / recognitions received at the national and international level by

- ☐ Faculty: Nil
- ☐ Doctoral / post-doctoral fellows: Nil
- ☐ Students: Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. : Nil

31. Code of ethics for research followed by the departments : Nil



32. Student profile programme-wise:

| Name of the Course/Programme | Applications Received | Selected | Enrolled | | Pass Percentage |
|------------------------------|-----------------------|----------|----------|----|-----------------|
| | | | M | F | |
| BLISc 2010-11 | 44 | 42 | 10 | 32 | 73% |
| 2011- 12 | 73 | 46 | 10 | 36 | 80% |
| 2012-13 | 50 | 47 | 17 | 30 | 63% |
| 2013-14 | 46 | 46 | 11 | 35 | 62% |
| 2014-15 | 50 | 32 | 11 | 21 | 55% |
| MLISc 2010-11 | 26 | 24 | 7 | 17 | 100% |
| 2011-12 | 30 | 26 | 6 | 20 | 90% |
| 2012-13 | 28 | 23 | 8 | 15 | 100% |
| 2013-14 | 15 | 15 | 3 | 15 | 100% |
| 2014-15 | 31 | 22 | 7 | 15 | 100% |

33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| BLISc | | | | |
| 2012 | 41 | 6 | Nil | Nil |
| 2013 | 47 | 1 | 1 | Nil |
| 2014 | 29 | 3 | Nil | nil |
| 2015 | 40 | 6 | 1 | Nil |
| 2016 | 48 | 1 | Nil | Nil |

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| MLISc | | | | |
| 2012 | 23 | Nil | Nil | Nil |
| 2013 | 15 | Nil | Nil | Nil |
| 2014 | 28 | Nil | 1 | Nil |
| 2015 | 14 | Nil | Nil | Nil |
| 2016 | 18 | Nil | 1 | Nil |

34. How many students have cleared Civil Services and Defence Services examinations, NET,

SET, GATE and other competitive examinations? Give details category-wise.

- Civil services/defense: Nil
- NET-
- GATE- Nil
- SET- Nil

35. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | 50% |
| PG to M.Phil. | 5% |
| PG to Ph.D. | 30% |
| Ph.D. to Post-Doctoral | |
| Employed | Nil 95 |
| Campus selection | |
| Other than campus recruitment | |
| Entrepreneurs | |

36. Diversity of staff

| | |
|--|-----|
| Percentage of faculty who are graduates | |
| Of the same university | 100 |
| From other universities within the State | Nil |
| From universities from other States | Nil |
| From universities outside the country | Nil |



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

- a) Library Books purchased during the period : 3406
- b) Internet facilities for staff and students : Nil
- c) Total number of class rooms : 2
- d) Class rooms with ICT facility : Nil
- e) Students' laboratories : 1 Computer Lab
- f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university
- b) from other institutions/universities
Nil

40. Number of post graduate students getting financial assistance from the university.
Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : Nil

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, the Department takes feedback from the faculty and utilizes it as the following ways

- (a) Monitoring the advanced learners and give guidance to perform better in their academic activities
- (b) Motivate extracurricular activities
- (c) Motivate to participate in Quiz programmes, Debates etc.
- (d) Giving guidance to prepare for National Eligibility Test and other competitive exams.
- (e) Find out slow learners and counseling them

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. On completion of every course a course feedback is taken and the same is analyzed and any points to be considered are taken for immediate implementation

- c. **Alumni and employers on the programmes offered and how does the department utilize the feedback?**

The feedback given by alumni and stake holders is the basic matrix for identifying short falls in curricular content and reinforcements needed therein. Feedback from alumni are regularly collected and due importance is given to their suggestions.

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|-------------------|--|
| 1. | Santhosh K N | Assistant Professor, St. Peters College, Kolencherry |
| 2. | Ajesh E S | Assistant Librarian, Marian International Institute of Management |
| 3. | Gayathri Mohan | Library Assistant VSSC, Thiruvananthapuram |
| 4. | Pooja Lakshmi K K | Pushpagiri Institute of Medical Sciences & Research Centre, Thiruvalla |

- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:**

Talk on Skill Set for LIS Professionals by K.P Vijayakumar, Former Associate Professor and Head, DLIS and Hon. Director, Centre for Information Literacy Studies, University of Kerala.

- 45. List the teaching methods adopted by the faculty for different programmes.**

Lecturers
Project Work
Study Tour
Computer labs
Seminars
Assignments

- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:**

Through effective monitoring:

Timely conduct of internal evaluation also ensures assessment of learning outcome.

- 47. Highlight the participation of students and faculty in extension activities. : Nil**

- 48. Give details of “beyond syllabus scholarly activities” of the department. : Nil**

- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. Nil**



50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The specific contributions included generation of new knowledge in the area of Library Science and information

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTH

- Competent and committed faculty.
- Strong contingent of highly placed alumni in various fields at the regional, national and international levels.
- Attention to slow and advanced learners.
- Buddy system for mentoring and peer learning.
- Integration of differently-abled students with the mainstream students.
- Close teacher-student relationship.

WEAKNESS

- Lack of adequate infrastructure facilities.
- Lack of adequate number of computers.
- Many students have poor command over English language.

OPPORTUNITIES

- With the introduction of new syllabus, greater scope for collaborative engagements with community, industry, and organizations of empowerment and good governance.
- New research trends in Library and Information Science.
- Formation of Community Library.
- Information Communication Technology Applications in Libraries.
- To carry out advanced student research projects (UG /PG) in Library and Information Science.
- To familiarize with recent trends and developments in the field of Library and Information science.
- To interact with reputed Information scientists.
- To establish student/faculty exchange programmes.



52. Future plans of the department.

- The Department is planning the introduction of the following programmes during the next five years:
 - ✓ M Phil (Regular Course)
 - ✓ Post Graduate Diploma in Library Automation and Networking (Regular Course).
 - ✓ B.L.I.Sc. Evening Course
- Refresher Courses for LIS Professionals.
- To conduct national and inter-national seminars, workshops etc.,



MAHATMA GANDHI UNIVERSITY

Annexure I

**List of Refereed Publications, Books, Book Chapters,
Conference Proceedings and Articles in
Popular Publications**

Submitted to

National Assessment and Accreditation Council
for Re-accreditation

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| 2 | School of Technology and Applied Sciences | 323 |
| 3 | School of Applied Life Sciences, Chuttippara | 329 |
| 4 | University Colleges of Teacher Education | 331 |
| 5 | Department of Library and Information Sciences | 333 |

Publication details of Schools, Departments

SCHOOL OF BEHAVIOURAL SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 82 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 37 |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 4 |
| 7. | Books authored without ISBN | 3 |
| 8. | Articles in popular publications | 20 |
| | Total | 148 |

Refereed Journal Publications: 82

2016: 15

1. Mini Mathew and Sukumaran, P.S. (2016). Work related skills of adults with mild intellectual disability. *Disabilities and Impairments*, 30(1), 21-27.
2. Simili P. Chacko & Sukumaran, P.S. (2016). Satisfaction and Problems of Special Teachers in Teaching Children with Autism, Mental retardation and Multiple Disabilities. *Mahatma Gandhi University Research E Journal*.
3. Kirankumar, V. B., Rajesh, E., & Sathian, B. (2016). Self Concept in relation to Parent-Child Relationship of Visually Impaired Students. *Mahatma Gandhi University Research E Journal*.
4. Sunilkumar, B.S., & Baburaj, P.T. (2016). Traumatic Brain Injury, Mood and Anxiety disorders in relation to Age and Education. *TMAIC Journal of Counseling*, 3, (1), 63 - 76.
5. Baburaj, P.T. (2016). Psychological Need Satisfaction of Hearing Impaired Adolescent. *International Research Journal of Management Sociology and Humanities*, 7 (5).
6. Divya Rose Peter & Rajeev Kumar, N. (2016). Socio-demographic Determinant of Malnutrition among Preschool Children in Kerala. *Conflux Journal of Education*, 3(9).
7. Sr. Tresa Anto & Rajeev Kumar, N. (2016). Impact of yoga and raw diet on sleep quality, glycemic level and anthropometric measurements of pre-diabetic patients. *International Journal of Advances in Nursing Management*, 4(1).
8. Kirankumar, V. B., Rajesh, E., Sathian, B (2016). Parent-child relationship in families with visually impaired schooling child. *International Journal of Applied Research*, 2(3) 146 -149.

9. Kirankumar, V. B., Rajesh, E., Sathian, B. (2016). Self-Concept of Students with Visual Impairment in relation to Socio-Economic status of Family. *International Journal of Multidisciplinary Research Review*, 1 (1) 224.
10. Kirankumar, V. B., Thomaskutty, A., Rajesh, E., & Sathian, B. Effect of Parental locus of Control on Emotional Maturity of Students with Visual Impairment. *Journal of Rehabilitation Council of India*. (Paper under Review).
11. Farisha K. A., Hassan A & Rajeev Kumar, N. (2016). Sensory Motor Integration of Children with Dyslexia. *Guru Journal of Behavioral and Social Sciences* 4, 1-2.
12. Sr. Tresa&. Rajeev Kumar, N. (2016). Effect of yoga and raw diet on physiological variables and quality of life of life of pre-diabetic patients. *International Journal of Nursing Education*, 8(2).
13. George Joseph, & Rajeevkumar, N. (2016). Determinant of Life Satisfaction among the Clergy in Indian Orthodox Church – a Study in Central Travancore. *The International Journal of Indian Psychology*, 3 (3).
14. Nandini, M., & Jayan, C. (2016). Behavioural Problems of Street Adolescents. *International Journal of Applied Research*, 2 (3), 223-228.
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SCHOOL OF BIOSCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 237 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 88 |
| 4. | Chapters in Books | 18 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 346 |

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 10. Divya K, Kurian LC, Vijayan S, Jisha MS (2016) Antimicrobial Properties of Chitosan Nanoparticles: Mode of Action and Factors Affecting Activity. Accepted in *Fibers and Polymers*.
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CONFERENCE PROCEEDINGS

International seminars/Conferences: 25

1. Anu. P. Sebastian and **Keerthi T. R** Immunomodulatory effect of probiotic strain *Bacillus subtilis* MBTU PBBMI spores in Balb/C Mice.; Proceedings TSB International Forum-2013 BITEC Bang Na, Bangkok, Thailand, August 28-30, **2013**.
2. Merlin Antony, Indu C Nair and Jayachandran.K Phenol biodegradation by *Alcaligenessp* -a process for industrial and environmental applications International conference on Advances in Biological science (ICABS-2012 held on March 15-17 , 2012 at Kannur by Kannur University
3. Keerthi T.R. Amrutha H and Savitha K. Koilery Co synthesis of Citric Acid during Polysaccharide Production by a Marine Yeast *Meyerozymagullermondii* MBTU-MYW1 (JN128648). Proceedings of 4th Annual International Conference on Advances in Biotechnology (BioTech 2014) Dubai, BITSPilani Campus 10-11th March **2014**. Pages: ISSN: 2251-3159
4. Mini K.D., Sampath Kumar S. and Jyothis Mathew. Keratinophilic fungal diversity of poultry farm soil. Proceedings of International conference organized by SreeSankara College, Kalady in association with Department of Marine Biology, Microbiology & Biochemistry, School of Marine Sciences, Cochin University of Science and

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5. Jayachandran.K. Edakka – the science behind the enchanting rhythm of Kerala.Nadam 2015. An International Ensemble on the Science of Music organized from 23rd - 27th Sept 2015. At Kottayam by IUCSSM, M.G University.
 6. Indu M Nair, Felicia Periera, AswathyJayakumar, Jayachandran K. Squalenecyclase activity in *Scopariadulcis* and in its endophyte *Pantoeastewartiisubsp. Indologenes* International Conference on New Horizons in Biotechnology (NHBT-2015) jointly organized by the Biotech Research Society, India and CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram (22nd to 25th Nov 2015).
 7. Merlin Antony and Jayachandran.K. Quorum sensing – Phenol biodegradation. ICMS 2015.Second International Conference on Frontiers of Mass Spectrometry (ICMS 2015) atInter University Instrumentation Centre & School of Environmental Sciences, Mahatma Gandhi University, Kottayam on 11-14 Dec 2015
 8. Divya K., Liya C. Kurian, SmithaVijayan, Jisha M.S Green Synthesis of Silver Nanoparticles by *Escherichia coli* and its Antibacterial Activity. Proceedings of 4thInternational Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
 9. Smithavijayan and Jisha,M,S. Extracellular synthesis of silver nanoparticles by endophytic *Fusariumsolani* from *Withaniasomnifera* and its antibacterial and cytotoxicity studies Proceedings of 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
 10. SmithaVijayan, Jisha M.S. Biogenic Synthesis of Silver Nanoparticles Using Endophytic Fungi *FusariumSps* Isolated From *WithaniaSomnifera*, its Antibacterial and Cytotoxic ActivityFourth international conference on natural polymers and biopolymers (ICNP 2015) at Kottayam during April 11-13.
 11. Divya K; SharrelRebello and Jisha M.S.(2014) A simple and effective method for extraction of high purity chitosan from shrimp shell waste”with paperID“ASEE-14-408 Proceedings of the International Conference On Advances in Applied Science and Environmental Engineering - ASEE 2014, Institute of Research Engineers and Doctors (IRED), ISBN: 978-1-63248-004-0 doi: 10.15224/ 978-1-63248-004-0-93
 12. Elizabeth Mary John; SharrelRebello and Jisha M.S.(2014) Chlorpyrifos degradation using bacterial consortium obtained from soil” Proc. of the Intl. Conf. on Advances In Applied Science and Environmental Engineering ASEE 2014.Copyright © Institute of Research Engineers and Doctors..ISBN: 978-1-63248-004-0 doi: 10.15224/ 978-1-63248-004-0-12
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15. Jisha and sandeep (2012) Invitro screening of *Pseudomonas* sp. for their biocontrol potential against phytopathogens of vanilla. 3rd World Congress on Biotechnology September 2012.
16. Sandeep and Jisha(2012).Biocontrol of *Fusarium*wilt of Vanilla (*Vanilla planifolia*) using *Trichodermaharzianum*. (Presented in the 2nd International seminar and workshop on “Sustainable utilization of tropical plant biomass” held at Kerala University campus, Kariavattom, Thiruvananthapuram).
17. *In-vitro* screening of *Trichodermespp.* For their biocontrol potential against phytopathogens of vanilla. ICABS 2012. International Conference on advances in Biological Sciences. March 15-17, 2012 Kannur.
18. Characterisation of endophyticdiazotrophic bacteria from rice (*Oryza sativa*). ICABS 2012. International Conference on advances in Biological Sciences. March 15-17, 2012 Kannur.
19. Environmental impact of acute exposure of the anionic surfactant linear alkylbenzenesulphonate (LAS). Presented in the International Symposium on Environmental RiskAssessment 2011 (ISERA 2011) organized by School of Lifesciences, Bharathiyar University, Coimbatore, held on October 17 – 19, 2011.
20. Kerosene biodegradation by autochthonous bacteria. Presented in the International Symposium on Environmental Risk Assessment 2011 (ISERA 2011) organized by School of Lifesciences, Bharathiyar University, Coimbatore, held on October 17 – 19, 2011.
21. Biocontrol potential of rice endophyteFusariumoxysporum against Rice Sheath Blight pathogen Rhizoctoniasolani. Presented in the International workshop and seminar "Phytophthora 2011organised by Rubber Research Institute of India, held on 12-17 Sept. 2011.
22. *Pseudomonas* and *Bacillus* mediated control of bacterial blight of anthurium. Presented in the International workshop and seminar "Phytophthora 2011 organised by Rubber Research Institute of India, held on 12-17 Sept. 2011.
23. Cytotoxic alterations induced by sublethal concentration of the anionic surfatcant linear alkylbenzenesulphonate (LAS) on grass carp (*Ctenopharyngodonidella*). Presented in the International seminar ASIAN PACIFIC AQUACULTURE 2011, Kochi, India held on January 18 -20, 2011
24. Soumya K R, Santhi Anna Thomas, Jyothis Mathew, SheelaSugathan and Radhakrishnan E K, presentation at the International Conference on Epidemiology, 16- 18 August 2012 organised by St.Thomas College, Pala, Kottayam.
25. Hazeena V.N., Jayachandran K., Anie Y. Ethyl acetate fraction of Vernoniaanthelmintica: HPTLC Fingerprinting and enzyme kinetic study of the active ARI constituents. In the proceedings of International Symposium on Phytochemistry held on 26-4-2015 at Thiruvananthapuram

National seminars/Conferences: 35

1. Anjali Anne Jacob, Sherin Joy Parapilly and Keerthi T.R In vitro probiotic characterization of Lactic Acid Bacteria isolated from infant feces with anti microbial action towards enteric fever pathogens. Proceedings National Seminar on Emerging Trends in Biopharmaceuticals, 26-27, August 2011, St. Mary's College, Trissur. Page no. 24-30.
2. Adhesion property is an enhanced probiotic potential of *Bacillus subtilis* MBTU_PBBM1 against Enteric pathogens. Proceedings National Seminar on Emerging Trends in Biopharmaceuticals, 26-27 August 2011, St. Mary's College, Trissur. Page no. 19-21.
3. Anu P. Sebastian and Keerthi T.R. Adhesion and cell surface properties of wild species of *Bacillus* spore formers against enteric pathogens., Proceedings National Seminar on Life Style and Diseases. January 19-20, 2012. School of Biosciences, Mahatma Gandhi University, Kottayam, Kerala. ISBN:978-93-82359-49-4
4. Jyothilakshmi M., Jyothismathew and M.S.LathaMikaniamicranthaKunth-A natural source of antibiotics Proceedings of the UGC sponsored national seminar on Basic and Advanced Biochemical Techniques: Relevance in interdisciplinary scenario. Organized by Department of Biochemistry in association with Department of Botany Bishop Kuriyallassery College for Women Amalagiri, Kottayam 3-4 Sept.2013
5. M. Prasad and Jyothismathew A Comparative study of heavy metal resistance in bacterial isolates from polluted and unpolluted water sources (Abstract) in Proceedings of National Conference on Heavy Metals in the Environment (HME 2013) 28-30 Nov. 2013
6. Abhilash S, Vineetha R C, Mathews VV, Harikumar Nair R. Anticancer drug induced membrane damage in H9c2 cardiomyocytes and possible protection by docosahexaenoic acid. Proceedings of National Symposium on Emerging trends in Biotechnology 2014, Department of Biotechnology, Cochin University of Science and Technology, Kochi, Kerala, India, January 2014.
7. Vineetha R C, Abhilash S, Harikumar Nair R. Chemotherapeutic stress on cardiomyocytes: A combination strategy with antioxidant vitamins for stress protection. Proceedings of National Symposium on Emerging trends in Biotechnology 2014, Department of Biotechnology, Cochin University of Science and Technology, Kochi, Kerala, India, January 2014.
8. K. A. Athira Krishnan, T.R. Keethi, and K. Jayachandran(2014) Screening of bioactivity and analysis of chemical constituents of two organic extracts of the marine sponge, *Zygomycalparishii* Proceedings of National Symposium on Emerging Trends in Biotechnology 2014: Department of Biotechnology, Cochin University of Science and Technology, Cochin-22 ISBN-978-93-80095-47-9:40-49
9. Nithin T. U., KeerthiT.R., and Linu Mathew (2014) Bioprospecting of novel marine bacteria *Idiomarinaceae* MBTU MB2 isolated from coastal region of Thrissur district Proceedings of National Symposium on Emerging Trends in Biotechnology 2014: Department of Biotechnology, Cochin University of Science and Technology, Cochin-22 ISBN-978-93-80095-47-9:60-71

10. Abhilash S and Harikumar Nair R. Docosa-hexaenoic acid protection in liver cell damage due to anticancer therapy- An in vitro model study. Proceedings of National Seminar on Current Trends in Medical Biochemistry and Biological Research, Department of Medical Biochemistry, School of Medical Education, Mahatma Gandhi University, Kottayam, Kerala, India, August 2015
11. Anjali Ann Jacob, Mathews Varkey and Keerthi.T.R (2016) "Agarase producing organisms from rhizosphere- A plant microbe interaction" Proceedings of National Seminar on Plant Science Technology for Sustainable World: National Institute of Plant Science Technology (NIPST) & Mahatma Gandhi University, Kottayam. ISBN: 978-81-930000-8-3: 19-20.
12. Jasni C.J, Honey Chandran.C and Keerthi.T.R (2016) "Extraction & Characterization of exopolysaccharide from lactic acid bacteria" Proceedings of National Seminar on Plant Science Technology for Sustainable World: National Institute of Plant Science Technology (NIPST) & Mahatma Gandhi University, Kottayam. ISBN: 978-81-930000-8-3: 64-66
13. Sunil MA, Sunitha VS, Radhakrishnan EK and Jyoths Mathew "Evaluation of immunostimulatory effects of *Acacia catechu* extracts in Mice" Proceedings of National Seminar on Plant Science Technology for sustainable world organised by National Institute of Plant Science Technology, Mahatma Gandhi University, Kottayam; Sponsored by Mahatma Gandhi University, Kottayam & Kerala State Council for Science, Technology & Environment on 25 Feb 2016
14. Hazeena V.N., Haritha V. H., Jayachandran K., Anie Y, Ethyl acetate fraction of *Vernonia anthelmintica* (L.) Willd contains Aldose reductase inhibitory molecules, pp 55-59. the proceedings of National Seminar on Plant Science Technology for Sustainable World, 25th and 26th February, 2016
15. Dhanya D.R, Dhanya S and Jisha M.S. Fluorescent *Pseudomonas* mediated control of bacterial blight of *anthurium*. National Seminar on Plant science Technology for sustainable world at National Institute of Plant Science Technology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.
16. Divya K., Dhanya D.R., Dhanya S. and Jisha M.S. biocontrol activity of *pseudomonas fluorescens* against bacterial blight of *anthurium* caused by *xanthomonas axonopodis pv dieffenbachiae*. National Institute of Plant Science Technology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.
17. Divya R and Jisha M.S. preliminary studies on isolation and characterization of microbial endophytes from selected medicinal plants in Kerala. National Institute of Plant Science Technology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.
18. Linu MS and Jisha MS. Phytohormone production and plant growth promoting potentials of phosphate solubilizing *Pseudomonas aeruginosa* isolated from rhizosphere. National Institute of Plant Science Technology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.
19. Devi R; Dibu Divakaran; Tijith K. George; Sharrel Rebello and Jisha M.S. Isolation of bioactive endophytic bacterial isolates paved the way for conservation of *Sida cordifolia*.

- Second national biodiversity congress (NBC) 2015 at Trivandrum during 23-27 February conducted by Kerala Biodiversity Board.
20. Divya.R and M.S.Jisha. Studies on the diversity of endophytic fungi from rice *Oryza sativa* and their antagonistic activity against *Rhizoctoniasolani*. 5th national level seminar Biovision 2014 at Mercy college Palakkad.Dec,2014
 21. Shabanamol S and Jisha M S, Endophytic bacteria as potent plant growth promoters of rice. Presented in national Seminar New Vistas in Microbiology, held at M A College,Kothamangalam,Kerala on 16-17 october,2014.
 22. Molecular characterization of *Pseudomonas nitroreducens* (MTCC10463) and *Pseudomonas aeruginosa*(MTCC10463) capable of degrading the anionic surfactant Linearalkylbenzenesulphonate (LAS). Presented in the National symposium on emerging trends in Biotechnology, organized by Department of Biotechnology CUSAT, held on 1-2 September, 2011.
 23. Screening of *Trichoderma* spp. and *Pseudomonas* sp. for their biocontrol potential against phytopathogens of *Vanilla*. Sustainable utilization of tropical biomass through biotechnology SUPBT 2012 Organised by KVM college of Engineering and Information technology Page No. 97-102. ISBN:978-93-81274-32-3
 24. Characterization of plant growth promoting endophytic bacteria from rice. Sustainable utilization of tropical biomass through biotechnology SUPBT 2012 Organised by KVM college of Engineering and Information technology Page No. 112-114. ISBN:978-93-81274-32-3
 25. Bioactive metabolite from *Aphylllophorales* sp. an endophytic fungus isolated from *Breguiera cylindrical*. Sustainable utilization of tropical biomass through biotechnology SUPBT 2012 Organised by KVM college of Engineering and Information technology Page No. 115-117. ISBN:978-93-81274-32-3
 26. Biocontrol of bacterial blight of *Anthurium* caused by *Xanthomonas axopoides*. Sustainable utilization of tropical biomass through biotechnology SUPBT 2012 Organised by KVM college of Engineering and Information technology Page No: 95-96
 27. Biocontrol of *Rhizoctonia* rot of *Vanilla* (*Vanilla planifolia*) using combined inoculation of *Trichoderma* sp. and *Pseudomonas* sp. Innovative approaches and modern technology for Crop productivity, Food safety and environmental sustainability November 2012.
 28. Soumya K R, Acquiline Mary Paul, Sheela Sugathan, Jyothis Mathew and Radhakrishnan E.K., presentation at the National Seminar On Advanced Biochemical Techniques: Relevance in Interdisciplinary Research Scenario” on September 3-4, 2013, organized by B.K. College, Amalagiri, Kottayam.
 29. Jasim B, Anisha C, Rohini Sabu, Jyothis Mathew and Radhakrishnan E.K. presentation at the “National Seminar On Advanced Biochemical Techniques: Relevance in Interdisciplinary Research Scenario” on September 3-4, 2013, organized by B.K. College, Amalagiri, Kottayam.
 30. Shimil V, Jasim B, Jimtha John, Jyothis Mathew and Radhakrishnan E.K. “presentation at the National Seminar on Advanced Biochemical Techniques: Relevance in Interdisciplinary Research Scenario” on September 3-4, 2013, organized by B.K. College, Amalagiri, Kottayam.

31. Roshmi Thomas, AnjuJanardhanan, Jyothis Mathew and Radhakrishnan E.K, presentation at “Nanotechnology: Applications of Nanomaterials in Agriculture, Food and medicine, 25-26 July 2012 organised by BK College, Amalagiri, Kottayam.
32. Mini K.D and Jyothis Mathew, Keratinolytic fungal diversity of selected localities in Thrissur district, SBS, MG university, Kottayam.
33. Honey Chandran C, Anjali Anne Jacob and KeerthiThalakattilRaghavan, Comparative study of Probiotic potential of lactic acid bacteria from Honey bee gut. Proceedings of National Symposium.2012,pg:325-334.
34. ReshmaJohn, RashmiP.A,Shajitha P.P,A AneeshaDevasy and Linu Mathew Callus induction and multiple shoot regeneration from nodal explants of *Achtranthesaspera* L. Proceedings of National Seminar on Plant Science Technology for Sustainable World .Pg :79-82
35. P, Haritha V. H ,Neethi Raj P and Anie Y , Xylitol action on impaired neutrophil functions associated with alcoholism, Proceedings of National seminar , 2012, Pg: 22-24.

State level seminars/Conferences: 28

1. Athira Krishnan, T.R. Keerthi, and K. Jayachandran (2014) Bioactivity and chemical composition of two organic extracts prepared from Marine sponge, *Spongiaofficinalis* var. *ceylonensis* Proceedings of 26th Kerala Science Congress 28-31, January, 2014, Wayanad, Kerala:3242-49
2. Nithin T.U., T.R. Keerthi, and Linu Mathew Bioactive properties of ethyl acetate fraction of marine bacteria *Staphylococcus warneri*, Proceedings of 26th Kerala Science Congress 28-31, January, 2014, Wayanad, Kerala, ,Pages: 3261-70
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SCHOOL OF CHEMICAL SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 385 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 25 |
| 4. | Chapters in Books | 22 |
| 5. | Edited Books | 44 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 476 |

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1. Fourth International Conference on Nanomedicine and Tissue Engineering (ICNT 2016) : 12-14 August 2016
2. Second International Conference on Advanced Materials for Power Engineering (ICAMPE 2016) : 11-13, December 2016
3. First International Conference on Advanced Materials for Power Engineering (ICAMPE 2015) : 11-13 December, 2015
4. International Conference on Nanostructured Polymeric Materials (ICNPM 2015) : 13-15 November, 2015
5. World Congress on Microscopy (WCM 2015): 9-11 October, 2015
6. Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015
7. Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014
8. Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014
9. First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014
10. Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014
11. International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013
12. Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013
13. First International Conference on Advanced Nanocomposite for Construction Materials: 12-14 March 2013
14. Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012.
15. First Indo- US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31st March – 2nd April 2012, Kottayam, Kerala, INDIA
16. Third International Multicomponent Polymer Conference (ICMPC-2012) 23-25 March-2012, Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA
17. (ICNM-2012) International Conference on Nanomaterials : Synthesis, Characterisation and Application-2012 Kottayam, Kerala, India, February- 1-3, 2012.
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19. International conference on Nanoscience and nanotechnology-2011, Kottayam, Kerala, India November, 12-15, 2011
20. (PPOMP 2011) First International Conference on Plasma Processing of Organic Materials and Polymers 25-27 November 2011, Kottayam, Kerala, India
21. International conference of waste management-2011, Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA
22. 18th Slovenian and Croatian vacuum meeting-2011, Bhohinj, SLOVENIA
23. ICNC-2011- International Conference on Composites and Nanocomposites-2011 Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA
24. IRC-2010-International Rubber Conference-2010 International Rubber Conference, Mumbai, India.
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3. Sadasivuni, K. K., Ponnammam, D., Kim, J., & Thomas, S. (2015), Biomate Applications: Macro to Nanoscale. Springer Series on Polymer and Compo Materials.
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SCHOOL OF COMPUTER SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 16 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 33 |
| 4. | Chapters in Books | 17 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 67 |

Refereed Journal Publications : 16

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1. Rethish Kumar & Vijayakumar R., (2016), Cloud Interrelated Service Oriented Audio Accepted by – Connections, International Journal of Computer Science and Information Technology Research, 4(3), 119-126, ISSN 2348-1196.
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14. Muhammed Iliyas & Vijayakumar R.,(2012), ELRM: A Generic Framework for Location Privacy in LBS.,Advances in Computer Science, Engineering and Applications, Springer, ISSN: 1867-5662.
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2. Unnikrishnan G, Vijayakumar R , A Review of automatic Raga Recognition Approaches in Carnatic Music, International Seminar on Science of Music, September 2015, Journal of New Music Research , ID: NNMR-2014-0051.
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3. Bindu V. R., (2015), Granular Computing, IT Glimpse, Annual Technical Publication, School of Computer Sciences, Mahatma Gandhi University, Kottayam.
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Books Authored with ISBN: 2

1. Vijayakumar, R., & Juby Mathew, (2016), Algorithm Design Foundation, Analysis and Examples, Vimala Publications ,Kottayam : ISBN: 978-93-5267-154-0.
2. Vijayakumar, R., & Juby Mathew, (2012), Data Structures and Algorithms, Professional and Technical Publishers, Coimbatore, ISBN: 978-81-910224-6-9.

SCHOOL OF ENVIRONMENTAL SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 151 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 193 |
| 4. | Chapters in Books | 4 |
| 5. | Edited Books | 0 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 0 |
| | Total | 349 |

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148. Shamili, V.K., Sajithkumar, K.J. ,Arun Babu V and EVRamamamy (2012). Phytoremediation of Leachate from Municipal Dump Yard in a Constructed Wetland Planted with *Colocasia Esculenta*, LAKE 2012: National conference on Conservation and Management of Wetland Ecosystems, 06-08 November 2012. Organised by School of Environmental Sciences, Mahatma Gandhi University, Kottayam. 112pp.

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152. P. Padma, E.V Ramamthy, Muralivallabhan T V and A.P Thomas (2012). Consumption pattern of tobacco and its health proposition in India. International conference on Anthropogenic Impact on Environment and Bioremediation, ICAIEB-2012. 26-28 November 2012. Organised by Department of Zoology, Sri Venkateswara University, Tirupati, A.P. India. 49pp.
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169. Divyalakshmi T.V., Aravindakumar C. T., and Aravind U. K.: Hydrophilicity of CHI PSS nanolayers: An ATR-FTIR study. *Proceedings of the International conference on Nano materials, Synthesis, characterization and application* (2012), p165.
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171. Sunil Paul M. M., Aravind U. K., Aravindakumar C. T.; Photochemical degradation of fensulfothion in aqueous medium. *Proceedings of the Trombay Symposium on Radiation and Photochemistry* (January 5-8, 2012), Mumbai, p 289-290.
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185. B Ajay Kumar, C K Baiju, Mahesh Mohan, V P Syas, M S S Chandran and P S Rakesh, Soil piping phenomenon: Examples from Idukki district, Kerala, India. in Pradeepkumar A P, Behr F-J. and Ramasamy E V (eds) Applied Disaster Research: Proceedings Disaster Risk and Vulnerability Conf 2011, MG University, Kottayam.

186. Syllas V.P., John C.M., Unni K.S., Thomas A.P. and E.V. Ramasamy (2012). Vembanad Lake –an endangered wetland ecosystem of Kerala. National Seminar on Wetland Conservation – Multidisciplinary approach St. Joseph College, Alappuzha, Kerala
187. B. Ajaykumar, M. S. S.Chandran, K. Sreedharan, Mahesh Mohan and A. P. Thomas, (2011) Holocene environmental modifications along the southwest coast of India : as inferred from the multiproxy analysis of palaeodeposits of Meenachil River, Kerala, India, Presented in the International conference.....Lucknow
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190. K K Jayasooryan, C M S Shylesh, M Mahesh and E V Ramasamy. Community health risk assessment on mercury contaminated fish consumption at Cochin backwaters, in Pradeepkumar A P, Behr F-J. and Ramasamy E V (eds) Applied Disaster Research: Proc Disaster Risk and Vulnerability Conf 2011, March 12-14, 2011, MG University, Kottayam, India. ISBN No. 978-3-943321-03-6
191. Mahesh,M., Jayasoorian, K.K., Shylesh, C.M.S., Subin ,K.J and EVRamasamy ,(2010).Mercury in water and sediments of Cochin Backwaters, Kerala,. Proceedings of 97th Indian Science Congress (Section : Environmental Sciences, Thiruvananthapuram, January 03-07.
192. Sajith Kumar K.J., Arun Babu V. and EVRamasamy, (2011). Di-phasic anaerobic digestion of municipal solid waste using acid phase fermenters coupled with common biogas plants with coconut husk as biofilm support systems, 23rd Kerala Science Congress, 29-31 January (ISBN 81-86366-74-1).
193. Arun Babu V., Jeeva, K. Jose Thushara Johny and EVRamasamy (2012). Grey water treatment using constructed wetland: towards sustainable water management, National seminar on sustainable development: recent trends in meeting the challenges (NSSD 2012), 20-21 January 2012. Organised by School of Environmental Sciences, M.G. University, Kottayam.

Chapters In Books: 4

1. Sowmya M and A.A. Mohamed Hatha (2016) Cadmium and lead tolerance mechanisms in bacteria and role of halotolerant and moderately halophilic bacteria in their remediation. Metal-Microbe Interaction and Bioremediation (CRC Press).
2. E. Lakshmi and G. Madhu, (2013) Trends in hydro-climatic variables and dissolved oxygen of the river Periyar, South India with potential impacts of global warming. in C.A. Brebbia (Ed), River Basin Management VII, VIT Press.
3. E.V.Ramasamy and S.Sujatha (2014). Vermicomposting : A Potential Option for Weed Management. Biology and Ecology of Tropical Earthworms – P.Chaudhuri and S.M. Singh (Ed.), Discovery Publishing House (P) Ltd, Pages 209-222

4. Sylas V.P., John C.M., Joby Paul. Unni K.S., Thomas A.P. and E.V. Ramasamy (2012). Documentation and distribution of aquatic plants in relation with certain environmental variables of Kuttanad wetland ecosystem, Kerala. In: Taxonomy and Biodiversity. A. Bijukumar, M.P. Nayar, R.V. Varma and C.K. Peethambaran (Eds.). Narendra Publishing House, New Delhi. 377- 391.

Books Authored With ISBN: 1

1. TasneemAbbasi, Khan FI, **E.V.Ramasamy** and Abbasi SA (2013) Regional EIA and Risk Assessment in a Fast Developing Country , Nova Science Publishers, Inc. New York, 437 pages. ISBN 978-1- 61942-234-6

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT STUDIES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 37 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 1 |
| | Total | 42 |

Refereed Journal Publications :37

2016: 5

1. Manjusha. K. A, (2016), “The Land Question Of The Tribals And Dalits In Kerala: A Study On The “Farming Protest” By The ‘ Adivasi Dalit Munnetta Samithi’ In Arippea, Kollam District” International Research Journal Of Human Resources And Social Sciences, 3(1), 117-124.
2. Manjusha. K. A, (2016), “Science Movement As A Social Movement: A Study On Kerala Sasthra? Sahithya Parishad” Interational Journal Of Multidisciplinary Research Review, 1(2), 2010 – 2015.
3. Manjusha. K. A, (2016), “Silent Valley Movement in Kerala : A Study on the Role of Kerala Sathra Sahithya Parishad” International journal of Research in Social Sciences, 6(3), 267-274.
4. Dr. C.R.Harilakshmeendra Kumar & Tiji P.V. (2016) Paddy Cultivation and Land Utilization Problems in Neo Liaaberal Paradox: A Study with special reference to Kuttanad region in Kaerala State. International Research Journal of Commerce, Arts & Science. ISSN 2319-9202 Vol 7 Issue 9 (2016)
5. Dr. C.R.Harilakshmeendra Kumar & Surendran Punnur, Public Policies for Growth : Sarvodaya a Paradigm Shift for Inclusive Growth,sdmimd, ISBN 978-93-83302-18-5 Mysuru-India 2016

2015: 5

6. John M. S., (2015), Why do women's co-operative societies languish? A study of selected societies in Kottayam, Kerla, Asian Journal of Women's Studies, 21(2), 105-125.
7. John M. S., (2015), "Theoretical Perspective of Decentralisation, Citizenship, Participatory Democracy", Mainstream, 3(26), 19-30.
8. Sandhya. R. S, (2015), "Nirmala Nagaram, Nirmala Bhavanam – A model for decentralized and community based solid waste management system", International Journal of Research in Social Sciences.
9. Dr. C.R.Harilakshmeendra Kumar & Surendran Punnur, The self defeating development models : The paradigm shift in growth Model, International Journal on Global Economic Growth and sustainability: Challenges and Prospects, sdmimd-2015,ISBN-978-93-83302-12-3
10. Sandhya. R. S, (2015), Elderly Widows in Kerala: an Invisible , dependent and secluede populations, International journal of multidisciplinary research review Vol. 1, Issue 10, Dec-2015

2014: 5

11. John M. S., (2014) Nonviolent Resistance to Nuclear Power Plants in South India", Peace Review, 26(3).
12. John M. S., (2014) "Women Component Plan at the Local Level in Kerala: Does it Live up to its Promise?", Indian Journal of Gender Studies, 21(2).
13. John M. S., (2014), Women's Participation in the Gram Sabha: Some Observations from a Micro Setting in Kerala" in Madhya Bharti - University Research, Journal of Dr Harisingh Gour Central University, Sagar, 65(2).
14. MANJUSHA. K. A, (2014), "Early Naxalite Movement in Kerala (1968 – 1976) : A Study on the Issues, challenges and Alternate Approaches" Zenith International Journal of Multidisciplinary Research, 4(3), 92-98.
15. MANJUSHA. K. A, (2014) "Non Violent Struggle for Self Rule: A Study on the Bamboo Revolution of the Tribals of Mendha Lekha District in Maharashtra," Galaxy International Inter Disciplinary Journal, 2(11), 21-33.

2013:7

16. John M. S. & Maria T Cheeran, (2013), "Single digit attrition rates in information technology industry in Kerala - Strength or weakness? - A narrative enquiry", Indian Journal of Public Administration, 59(2), 348-362.
17. John M. S. & Ufo Okeke Uzodike, (2013) "The Territorial Origins of African Civil Conflicts: A Historical Perspective", Territoriality, Citizenship and Peacebuilding: Perspectives on Challenges to Peace in Africa, London: Adonis Abbey.

18. John M. S. & Ufo Okeke Uzodike (2013) "Conclusion" in Kelechi Kalu, Okeke Uzodike, David Karybill & John Moolakkattu eds. *Territoriality, Citizenship and Peacebuilding: Perspectives on Challenges to Peace in Africa*, London: Adonis Abbey.
19. Sandhya. R. & Sudheeran T. S., (2013), "Deprivation and Disempowerment' A matter of Conscience and Concern" *Indian Journal of Gerontology*, 27(2), (Ranked 17th among Gerontology Journals Worldwide)
20. Sandhya. R. S, (2013), "Orphaned Owners: The Real State of Elderly Widows in Kerala", *ZENITH International Journal of Multidisciplinary Research*, Vol.3 (4). 235-241.
21. MANJUSHA. K. A., (2013), "Lights and shadows of Tribal Development in Kerala: A Study on the Muthuvans of Edamalakkudy Tribal Settlement in Idukki District, Dawn Journal, 2(1), 274-283.
22. MANJUSHA. K. A, (2013), "Colonial Model of Modern Exploitation: A Study on the sacrifice of Life Land and Liberty of the Tribes of Kerala" *International Journal of Sciences and Interdisciplinary Research*, 2(3), 1-11.

2012: 3

23. John M. S., (2012), *Information Technology Sector, Women Professionals and Pregnancy Related Issues: A Study With Particular Reference to Kerala* Man and Development, 34(4).
24. John M. S., & Ufo Okeke Uzodike, (2012), "Towards Deepening Conflict Transformation and Peace building" *Journal of Conflict Transformation*, Published by Adonis & Abbey, London.
25. Manjusha. K. A, (2012) "Tribal women Empowerment through Kudumbasree Units: A Study on the Ulladan Tribe of North Paravur Taluk of Ernakulam District in Kerala" *Zenith International Journal of Multidisciplinary Research*, 12(12), 335-350.
26. Dr. Mahajan P Mani, "Changed Context of Social Work in the Post Colonial Countries", *Contemporary Social Scientist*, Vol 3, Issue 1, September 2012, Mizoram, India
27. Dr. Mahajan P Mani, "Towards a Gandhian Model of Development for the future of India, *International Journal of Interdisciplinary Knowledge and Research*", Vol 1, Issue 2, January – June 2012, Nagpure
28. Dr. Mahajan P Mani, "Contemporary Overview Of Corporate Participation in Social Development", *Prajwalam*, Publication of National Association of Professional Social Workers in India, December 2012, Indore
29. Dr. Mahajan P Mani, "Postmodern Ethical Criticism in the East with Special Reference to Emmanuel Levinas and M.K. Gandhi", *The Proceedings of the National Seminar Sponsored by U.G.C, St. Thomas College Pala*, June 2012

30. Dr. Mahajan P Mani, Critiquing Gandhian Response to Post Modernity” ,Post modern ethical criticism in the west and east,with special reference to Emmanuel Levinas and M.K.Gandhi, June 2012

2011: 7

31. John M. S., (2011), “Primacy of State – Building in Congo?” *Peace Review*, 23(2), 154-160.
32. Dr. Mahajan P Mani, Development Management – A Wholistic Approach,Marian Publications,2011
33. Dr. Mahajan P Mani, On the Proper Foundation of National Identity: A Gandhian perspective” ,Journal of Indian History,Tvm,2011
34. Dr. D Nirmmala Devi, Concept of Nature in Indian Thought,Jawahar Pusthakalaya, Madhura,2011(Revised &expanded)
35. Dr. D Nirmmala Devi, Tagore on Nature: Some philosophical considerations in Rabindranath Tagore , A Retrospection P Gopichand & P Nagasuseela eds ,September 2011
36. Dr. D Nirmmala Devi, Sree Narayana Guru’s Idea of Absolute’,Prabuddha Bharata,Calcutta,Vol 116,No 6, June 2011
37. Dr. D Nirmmala Devi, Peace Education : A Gandhian Perspective”,Pedagogics,Mahatma Gandhi University,Kottayam, ,Vol 9,No 1, September 2011

Chapters In Books: 2

1. “Green Thoughts within Gandhian Discourses” in the book “Understanding the Environmental History of India”, (ISBN 978-81-924182-0-9), Chapter 17, p.143-149, Published by Post Graduate Department of History and Research Centre, S.N.College, Chempazhanthu, TVM, Kerala, June, 2012.
2. “Social Transformation through Education: A Study on the Problems in Imparting Elementary Education to the Tribals with Special Reference to Kerala” in the book “Status of Dalit-Bahujans in India” Edited by Nagaraju Vadappalli, ISBN NO.978-81-908906-6-3, Published by Sree Bhagavan Publications, Hyderabad, Page No.146-156, January, 2015.

Edited Books: 1

1. “Tracing Recent Trends in Marginalisation: A Study on the Silent Genocide of the Tribals in Attappady Hills of Palakkad District in Kerala” in the book “Understanding the Tribal Life in India: Issues, Challenges and Alternate Approaches” edited by Manjusha.K.A., ISBN NO.978-93-5212-508-1,Jointly Published by Manjusha.K.A and School of Gandhian Thought and Development Studies, M.G.University, Kottayam,Page No.78-89, March 2015.

Books Authored with ISBN: 1

1. “Understanding the Tribal Life in India: Issues, Challenges and Alternate Approaches” with ISBN NO.978-93-5212-508-1, Jointly Published by Manjusha.K.A and School of Gandhian Thought and Development Studies, M.G.University, Kottayam, March 2015.

Articles In Popular Publications: 1

1. Dr. C.R.Harilakshmeendra Kumar , ”Unnatha Vidyabhyasam: Naam Marannu Pokunnathu” (Malayalam) 2013. Published by, Anickadu Regional Farmers Service Co-Operative Bank. Ltd No. 3867, PP 165-169

SCHOOL OF INDIAN LEGAL THOUGHT

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 30 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 30 |

Refereed Journal Publications: 30

2015: 8

1. Pillai, Sheeba (2015). Accountability of the Governor: A Critical Dilemma Under the Indian Federalism. Indian Journal of Legal Philosophy 3(3)(ISSN 2347-4963) p.22– 31.
2. Rajeesh, A.P. (2015). Classification of Contempt under Direct and Indirect Heads – the Myth and Realities. Indian Journal of Law & Public Policy.1 (11), (ISSN 2394 - 2657), 1 – 25.
3. Alex, Jasmine (2015). Maintaining Wife: Transition in Law, Journal of Indian Legal Thought, Volume XI, ISSN No. 2249-9989
4. Pillai, Sheeba (2015). Child Participation in Structures of Local level Governments-A key Mechanism for ensuring their rights, Law Mantra Journal, Volume III, Issue I (ISSN 2321-6417, online)
5. Pillai, Sheeba (2015). Rights of Child under Common Law and their Evolution under the Indian Jurisprudence, Journal of Indian Legal thought, Volume X (ISSN No 2249-9989), page 254 -266)
6. Rajeesh, A.P. (2015). Fundamental Rights and Contempt Power of Courts and Legislature, Law Mantra Journal, Volume III, Issue II & III (ISSN 2321-6417, online)
7. Rajeesh, A.P. (2015), Assistant Professor, School of Indian Legal Thought, has also published an article titled Indian Penal Code and Contempt of Court, Journal of Indian Legal Thought Vol. 10 (ISSN 2249-9989) P. 124 – 138.

8. Cyriac, Sunil Kumar, Assistant Professor, School of Indian Legal Thought, published an article titled Sentencing Process and Criminal Justice Administration, Journal of Indian Legal Thought Vol. 10 (ISSN 2249-9989) P. 161 – 180.

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9. Pramodan, M.C.(2014).Privacy and Confidentiality in Telemedicine, ANU Journal of Law 6(1&2) (ISSN 0975 - 9565).
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11. Pillai,Sheeba (2014).Reservation to Human Rights Treaties: a Defeating Factor Education as Socio Economic Right, Journal of Indian Legal thought, Volume IX, (ISSN 2249-9989)
12. Pillai,Sheeba (2014).Right to Free and Compulsory Education for the Girl Child between the age of 6-14 years: An Unfulfilled Dream.International Journal of Law and Legal Jurisprudential Studies ISSN(2348-8212), 1(2).
13. Pillai,Sheeba (2014).Coastal Regulation Zone and need for Sustainable Development . Law Mantra Journal ISSN No (2321-6417), 1(8).
14. Cyriac, Sunil Kumar (2014).Exculpatory Evidence, An Insoluble dilemma, Journal of Indian Legal Thought, Volume IX, (ISSN 2249-9989, Page 161-180)
15. Rajeesh,A.P(2014),Classification of Contempts under Civil and Criminal heads- rationale and Need For,Volume IX, (ISSN 2249-9989),page 67-92
16. Gigi, P.V.(2014) Protection of Rights of Children under Local Self Government Legislation. Journal of School of Indian Legal Thought,Vol IX (ISSN 2249-9989 Journal of Indian Legal Thought (Print),.

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17. Joseph,M.G.(2013). Family and State Policies.Indian Journal of Family Studies,13(1) 66-84.
18. Gigi, P.V. (2013). The Right to Education and the Poor .Journal of C.M.S College, Kottayam,
19. Joseph,M.G.(2013), Protection of Human Rights and human rights Values in Indian Laws, Journal of Indian Legal Thought, Volume IX, page 41-66
20. Joseph,M.G.(2013), Control of Minority and Non- Minority Educational Institutions- A Constitutional Conundrum,Legal Opus, Issue No.VIII, page 33-51
21. Joseph,M.G.(2013), Family and State Policies,Indian Journal Of Family Studies , Volume No XIII,Issue No.I,(2013 page 66-84)
22. Rajeesh, A.P. (2013).Press and Contempt of Court, International Journal of law and Legal Jurisprudence Studies, (Online Journal,ISSN 2348-8212)
23. Rajeesh, A.P. (2013). Contempt of Court and Possession of Bar and Bench, International Journal of Reserach and Analysis, (ISSN 2347-3185, Volume II, Issue IV)

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24. Pillai,Sheeba. (2012). Right to Safe Food: Laws and Remedies.Banaras Law Journal, 41(2).

25. Pillai,Sheeba (2012). Right to Education under the European Convention for Protection of Human Rights and Fundamental Freedom 1950. Christ University Law Journal.
26. Pillai,Sheeba (2012). Right to Education and International Law- Defining the Right, GNLU Law Review, Volume III, Issue II, April 2012

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27. Joseph, M.G. (2011). ADR Technique to Reduce Arrears of Cases and to Enhance Access to Justice- An Overview of Indian Scenario. Legal Opus issue No.6, 89-94.
28. Joseph, M.G. (2011).Protection of Minority Rights-Its Constitutional Philosophy, Emerging Trends and New Challenges. Kerala University Journal of Legal Studies.4 123-142.
29. Rajeesh, A.P. (2011).Contempt of Court and Constitution of India, Journal of Indian Legal Thought, (ISSN 2348-8212).
30. Cyriac, Sunil Kumar (2011).Right of Private defence;Need for Reconstruction Journal of School of Indian Legal Thought, Volume VII (ISSN 2249-9989).

SCHOOL OF INTERNATIONAL RELATIONS AND POLITICS

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 41 |
| 2. | Monographs | 3 |
| 3. | Conference Proceedings | 3 |
| 4. | Chapters in Books | 20 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 6 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 38 |
| | Total | 112 |

Refereed Journal Publications: 41

2016: 1

1. Co- author (2016), Human Rights Violations and Post-Saddam Iraq, International Journal of Management and Social Science Research Review, Vol.1, Issue.2. PP-198-203, ISSN -2349-6738, Impact Factor: 3.029.

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2. Seethi, K.M. (2015). The Global South and Non-Alignment: Challenges of Indian Diplomacy in the Gulf. Journal of Political Economy and Fiscal Federalism, Vol.1.
3. Vinodan, C. & Rajesh Kuniyil. (2015). Energy Security and Climate Change: Problems and Prospects in India-Australia Relations. ISDA Journal, Vol.10.
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5. Seethi, K.M. (2015). The Global South and Non-Alignment: Challenges of Indian Diplomacy in the Gulf. Journal of Political Economy and Fiscal Federalism, Vol.1.
6. Thomas, A.M. (2015). James Madison and the Making of the Constitution of the United States. Indian Journal of Politics and International Relations, Vol.5-7.
7. Lirar, P. (2015). When the Despots are Deposed: Developments, Differences and Difficulties in the Transition of North Africa. Indian Journal of Politics and International Relations, Vol.5-7.
8. Lirar, P.(2015). In Search of a Better Haven : Political Changes in the Arab World and the Tragic life of Iraq refugees. Journal of MES Asmabi College, Kerala.
9. Vinodan, C. & Rajesh Kuniyil (2015). Energy Security and Climate Change: Problems and Prospects in India-Australia Relations. ISDA Journal, Vol.10.

10. Kurian A. L. & Vinodan, C. (2015). Quest for Energy Security: New Trends In India-China Relations. *International Journal of Management and Social Science Research Review*,1(15), Sep.
11. Girish Kumar, R. & Varughese, A. R. (2015). South- South Cooperation and Spices trade: Indian Scramble for African - LAC trade. *South Asian Journal of Diplomacy* 2015.
12. Girish Kumar, R.& Varughese, A. R. (2015). Regional Comprehensive Economic partnership and its implications for Indian Spices Trade: A Political Economy approach. *Journal of Polity and Society*, July-December.

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13. Vinodan, C. (2014). China and the Emerging Global Energy System. *Journal of International Studies*, 10.
14. Seethi, K.M. (co-author). (2014). Marginalisation, Identity Politics and New Social Movements, *Indian Journal of Politics and International Relations*. Vol.5-7.

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15. Vinodan, C. (co-author). (2013). Regionalism and Regional Cooperation in International Relations: A Conceptual Analysis, *Online International Interdisciplinary Research Journal*, III(VI), Nov-December.
16. Vinodan, C. (2013). The Rise of China and the Maritime Dispute in the South China Sea. *Southeast Asian Journal of Social and Political Issues*, 1(3).
17. Vinodan, C. (co-author). (2013). Energy Security: A Multivariate Analysis of Emerging Trends and Implications for South Asia. *India Quarterly*, Dec 69, 383-400.
18. Seethi, K.M. (2013). Democracy and Electoral System in India. *Social Science Perspectives*, 5(2), April-June.
19. Girish Kumar .(2013). The Role of Media in the Protection of Human Rights in India. *Holistic Thought*, 12(1), January- June.

2012: 5

20. Seethi K.M. (2012). India and the Shanghai Cooperation Organisation. *South Asian Journal of Diplomacy*, 1(1).
21. Thomas, A.M. (2012). Diaspora: Theory and History. *South Asian Journal of Diplomacy*, 1(1).
22. Vinodan, C. (co-author). (2012). The EU–India Relations: Towards A New Partnership in the Asian Century. *Journal of Asian Politics*, 11(2).
23. Vinodan, C. (2012). Strategic Dimensions of China's South China Sea Policy: Implications for International Relations. *South Asian Journal of Diplomacy*, 3(3).
24. Lirar, P. (2012). Facebook Generation and the Great Arab Intifada. *International Journal of Advanced Research*, 2 (2), 16- 29.

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25. K.M Seethi and Reghunathan M. (2011): "Human Security and Health: Emerging Concerns," *Indian Journal of Politics and International Relations*, 2(4), June-December.

26. K.M. Seethi, "China's 'Peaceful Rise' in the New Millennium," *Indian Journal of Politics and International Relations*, Vol. 4, No.1& 2, January-December 2011.
27. K.M. Seethi, "Sufism and the Contemporary Challenges of Islam in South Asia," *South Asian Journal of Diplomacy*, 1(1) 2011.
28. K.M. Seethi "Social Sciences in Transition: Value-Rationality beyond Rigid Boundaries," *Social Science Perspectives*, March-June 2011.
29. A.M. Thomas "The Armenian Genocide Revisited: Probing the Extent of Turkish Involvement," *South Asian Journal of Diplomacy* 2011(Kottayam).
30. Girish Kumar R India and WTO Jurisprudence: Scope of Distributive Justice", *South Asian Journal of Diplomacy*, Vol.2, 2011
31. Girish Kumar R South-South Strategy to address Common Challenges in Intellectual Property: A Study of South Asia, *ISDA Journal: Studies in Development and Administration*, 21 (4) 2011
32. C. Vinodan, Shibu M. George (2011), Renewable Energy Development in India, *Journal of Parliamentary Studies*, Vol.2, Issue 1.
33. C. Vinodan, (2011), The Rise of Asia and China's New Energy Policy, *South Asian Journal of Diplomacy*, Vol. 2, No. 2.
34. C.Vinodan (2011), Terrorism and Nuclear Security South Asia: The Case of Pakistan, *International Journal of South Asian Studies*, Vol. 4, No. 2.
35. Bijulal M.V, "Under The Heat of Knowledge Trees: Unlearning/s From Memory and History of Two Dalit Struggles In India" *International Journal of Social and Economic Research* Year : 2011, Volume : 1, Issue : 2

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37. K.M Seethi (2010):"West is West: New American Protectionism and the Indian IT Sector, *Mainstream*, XLVIII (46): 6 November.
38. K.M Seethi and P.M. Joshy (2010 "Interrogating Security: The Hindu Right and the nuclear Question," *South Asian Journal of Diplomacy*, 1(1) 2010.
39. K.M Seethi (2010) "State, Health and Human Security," Working Paper-1, Centre for Cross National Communication in South Asia, SIRP/MGU, Kottayam.
40. Dimpi V.Divakaran "Kosovo Verdict and the Revisit of Self-Determination Debate", in *Journal of Polity and Society*, Vol 3 (2) July – Dec 2010
41. Dimpi V.Divakaran, "Understanding Nationalism", in *Indian Journal of Politics and International Relations*, Vol-3 (1&2), 2010.

Conference Proceedings: 3

1. Vinodan, C. (2016), "Climate change & sustainable development: Implications for India", Second International conference on Inclusive economic growth & sustainable development (November 18-19,2016), organized by Sri Dharmasthala Manjunatheswara Institute for Management Development, Mysore, Karnataka.

2. Vinodan, C. (2016), "Environmental conservation & human rights issues: The case of Western Ghats in India", In: C. Subramanian and M. Sugirtha (Eds.), Human rights in India: Current issues & challenges(29-30 March, 2016.).
3. Vinodan, C. (2014), India – China and the Asian Energy security: Towards A new Grand Strategy in the Asian Century (2014), International Conference on : India – China Relations : Implications for Peace and Prosperity of Asia(11-12 October, 2014)

Chapters In Books: 20

1. Bijulal M.V (2010), "GCC Countries: Emerging Scenario After Migrant Labour Unrest" in Contemporary West Asia: Politics and Development Alam Anwar (Ed.) , New Century Publications , New Delhi.
2. C.Vinodan (2010),"Climate Change and Energy Development in South Asia: Challenge and Opportunities before SAARC", in Srivastava and Safudeen Soz (Eds.), SAARC: Emerging Challenges, Foundation for Peace and Sustainable Development, New Delhi.
3. Raju K. Thadikkaran and G.V.C. Naidu (2011): China, India and Pakistan Imbroglio: Rhetoric and Reality, Mathrubhumi Year Book.
4. Bijulal M.V," Migrant Work and Human Rights in the GCC Countries: Emerging Scenario After Migrant Labour Unrest," in Anwar Alam (ed.) West Asia Politics and Development, New Century Publications, New Delhi 2011).
5. K.M. Seethi, Problematising South Asian Security: Internal-external dynamics, (2013) R. Sreekantan Nair (ed.), Reexamining Human Rights: Global Postures and Local Realities, London: Research Syndicate.
6. M.V. Bijulal, (co-author), Dalits and Rights to Water: Limitations of the Conflict Resolution Approach: Experiences from Chakwara, Rajasthan, India, (2013) Teresa Joseph and Suryanarayan (eds.) Conflict Resolution in South Asia, New Delhi: New Century Publications.
7. Girish Kumar R., Loka Vyapara Sankadanayum Vikaswara Rajyanagalum, (2013)Government of Kerala, Basha Sahithya Institute
8. K.M. Seethi, India and the Emerging Gulf: Between 'Strategic Balancing' and 'Soft Power' Options, (2013)Tim Niblock and Monica Malik (eds.), Asia-Gulf Economic Relations in the 21st Century: The Local to Global Transformation, London: Gerlach Press.
9. Girish Kumar,Pampa Nadi: Paristhithiyum, Samskaravum, (2013)Government of Kerala, Basha Sahithya Institute.
10. C.Vinodan, China, US and South China Sea Dispute (2013) Mohanan B. Pillai (ed.),India's National Security: Concerns and Strategies, New Century Publishers, New Delhi.
11. Lirar P., The Politics of Resistance versus the Politics of Accommodation: Hizbollah's Experience with Democracy in Lebanon (2013) Rajeesh Kumar and Navaz Nisar (eds) Islam, Islamist Movements and Democracy in the Middle East, New Delhi: Global Vision Publishing House
12. K.M. Seethi, Pakistan: State, Civil Society and Political Islam (2015) Mathew Joseph C. (ed.), Pakistan and the Muslim World, New Delhi: Manohar.
13. K.M. Seethi, Negotiating for Security in South Asia, (2014) C.Vinodan (ed.), South Asia in the Globalised World, New Delhi: New Century Publications.

14. A.M. Thomas, Syriac (2014) Sukrita Paul Kumar, (ed.) People's Linguistic Survey of India, Vol. 6: Arabic and Allied Languages , New Delhi: Orient BlackSwan.
15. Girishkumar R., India's Innovation Systems: Changing Structure in the Post-TRIPS Regime (2014)C.Vinodan (ed.), South Asia in a Global Context, New Delhi: New Century Publishers.
16. Lirar P, Arab Spring and the Unending Population Displacement in West Asia: An Analysis of the Impact of Syrian Refugees in Jordan (2014) Basheer Mohammed K. (ed) Society, Culture and Politics in West Asia: Post Arab Spring Dynamics, Thiruvananthapuram: University of Kerala.
17. C. Vinodan, Regional Connectivity and Energy Security in South Asia: Challenges and Opportunities, (2015) Mohanan B.Pillai & Alduri Subramanyan Raju (Eds.), Connectivity and Integration in South Asia, Kalpaz Publications, New Delhi.
18. C. Vinodan, Nuclear South Asia; Strategic and Security Dimensions, (2015) Suresh R (Ed.), The Changing Dimensions of Security: Indias Security Policy Options, Vij Books Ind Pvt Ltd, New Delhi.
19. K.M. Seethi, Pakistan: State, Civil Society and Political Islam, (2015) Mathew Joseph C. (ed.), Pakistan and the Muslim World, New Delhi: Manohar Publishers.
20. C. Vinodan (2016), Emerging Powers and Global Climate Change: Responses of India and China, in Shahanshah Gulpham & Ali Saeed (Eds.) Dynamics of BRICS Nations: Challenges Ahead, Paragon International Publishers, New Delhi. . ISBN 978-93-83154

Edited Books: 1

1. K.M. Seethi and K.R. Singh (eds.) (2010): *Coastal Security: Needed A New Look*, Kottayam: K.P.S. Menon Chair for Diplomatic Studies.

Books Authored With ISBN: 6

1. Girish Kumar R (2010): *WTO and Globalisation of Intellectual Property Rights*, ISBN No.978-81-7831-236-1, Manak Publications, Delhi.
2. Girish Kumar R(2010): *WTO and Developing Countries: India at Dispute Settlement Mechanism* ISBN 978-81-910909-0-1, Centre for Trade, Development and Governance, Mahatma Gandhi University.
3. K.M. Seethi, PM Joshy *State and Civil Society Under Siege*, (2015) New Delhi: Sage Publications (co-author with)
4. C.Vinodan *Energy Security Choices for India*, (2015) New Delhi: New Century Publishers
5. C.Vinodan, *South Asia in the Globalised World*, (2014) New Delhi: New Century Publishers
6. Vinodan (Co-author) (2014), *Regional Integration and Energy Security: The European Union Experience*, Lambert Academic Publishing, Germany. ISBN: 9783659649516 3659649511

Articles In Popular Publications: 38

1. K.M. Seethi (2015). Non-Proliferation Dynamic: American Soft-Containment of Iran and India. *Countercurrents*, 26(7).
2. K.M. Seethi. (2015). Debating Colonial Hang-over, *Countercurrents*, 26(7)
3. K.M. Seethi. (2015). Non-Proliferation Dynamic: American Soft-Containment of Iran and India. *Countercurrents*, 26(7).
4. K.M. Seethi. (2015). Debating Colonial Hang-over, *Countercurrents*, 26(7)
5. K.M. Seethi (2014). Law Proposes, and Politics Disposes: Questions Beyond/Beneath 'Checks and Balances. *Countercurrents*, 3September.
6. K.M. Seethi. (2014). Conversion/Reconversion: Is the Civil Society in Kerala Poised to become a 'Testing Lab'? *Countercurrents*, 26 December
7. K.M. Seethi "Obama's Hot Feeler Triggers More Confusion," *Countercurrents*, 21 May 2011.
8. K.M. Seethi "The Perils of Endosulfan," *Economic Times*, 26 April 2011.
9. K.M. Seethi "Endosulfan: Endgames in Geneva and New Delhi," *Countercurrents*, 24 April 2011.
10. A.M. Thomas, "Armenian Vamshahathya: Oru Noottandinu Shesham (malayalam)", *Mangalam* (Kottayam) 6 and 7 May 2015.
11. Lirar Pulikkalakath (2015), "Aylan Manalthariye Chumbichappol (malayalam)", *Mangalam Daily*
12. K.M. Seethi, "Still Across the Line of Control and the 'Unfinished Innings in Kashmir," *Countercurrents.org*, 21 July 2016
13. K.M. Seethi, "Foreign Policy as Performing Art," *Countercurrents.org*, 11 June 2016.
14. K.M. Seethi, "Social Facts in an 'Off-Day Game' " *Countercurrents.org*, 19 June 2016.
15. K.M. Seethi, "Madhonmatham: Mathaathmaka Raashtreeyam, *Malayalam Vaarika*, 18 July 2016.
16. K.M. Seethi "National Security, Holier Than 'Human Security' In India," *Countercurrents.org*, 14 May 2016
17. K.M. Seethi "Can the subaltern speak for himself?," *The Hindu/South Asian Monitor*, 2016/1/27
18. K.M. Seethi "Charithrathodoppam Nadanna KMSS" *Madhyamam*, 17 April 2016.
19. K.M. Seethi "Nation's 'Educational capital' Under Sedition Charges," *Countercurrents*, 13 February 2016.
20. K.M. Seethi "Non-Proliferation Dynamic: American 'Soft Containment' of Iran And India," *Countercurrents* 2015/7/26
21. K.M. Seethi "Misunderstood genius: Mohammed Ali Jinnah" *The Week* 2015/12/27
22. K.M. Seethi "Debating Colonial Hang-over," *Countercurrents*, 26 July 2015.
23. K.M. Seethi "Greek Durantham: Arthashaastram," *Madhyamam Weekly*, 13 July 2015.
24. K.M. Seethi "Kunjunkale Kollunna Deshasneham" *Mathrubhumi Weekly*, 4 January 2015.
25. K.M. Seethi "A Jurist Extraordinaire," *Tehelka*, 20 December 2014.

26. K.M. Seethi “UR Anantha Moorthy: Saamskaarika Dharshanikathayude Kulapathi,” Mathrubhumi Weekly, 14 September 2014.
27. K.M. Seethi “Law Proposes, and Politics Disposes: Questions Beyond/Beneath ‘Checks And Balances’ ” Countercurrents, 3 September 2014.
28. K.M. Seethi “Kaaviyude Bhooraashtrathantram,” Malayalam Vaarika, 30 May 2014.
29. K.M. Seethi “Mooladhanavum Rashtreeyavum,” Assisi Magazine, March 2014.
30. K.M. Seethi “Conversion/Reconversion: Is the civil Society in Kerala Poised to Become a ‘Testing Lab’? Countercurrents, 26 December 2014.
31. K.M. Seethi “Prisoner No.466664: On Nelson Mandela,” Mathrubhumi Weekly, 22 December 2013. “Samaa
32. K.M. Seethi “Asghar Ali Engineer: Samaadhaana dhoodanaaya Pandithan,” Mangalam, 15 may 2013
33. K.M. Seethi “Adimathwam: Antharikavalkkarikkappetta Vyavahaaram,” Assisi Magazine, February-March 2012
34. K.M. Seethi “A Search for True Freedom,” Deccan Chronicle, 12 August 2011.
35. K.M. Seethi “Obama’s Hot Feeler Triggers More Confusion,” Countercurrents, 21 May 2011.
36. K.M. Seethi “The Perils of Endosulfan,” The Economic Times, 26 April 2011.
37. K.M. Seethi “Endosulfan: Endgames in Geneva and New Delhi,” Countercurrents, 24 April 2011.
38. K.M. Seethi “Keraleeyam Nashttappetta Keralam,” Malayalam Vaarika, 7 Janauray 2011.

SCHOOL OF LETTERS

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 14 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 3 |
| 4. | Chapters in Books | 25 |
| 5. | Edited Books | 9 |
| 6. | Books authored with ISBN | 14 |
| 7. | Books authored without ISBN | 13 |
| 8. | Articles in popular publications | 64 |
| | Total | 142 |

Refereed Journal Publications- 14

1. Aju K.Narayanan, "Samuel Beckett Mahe VazhiKuttanattilekku: Aakhyanthinte Kaimattangalum Parichu Nadalinte Rashtreeyavum", Bhoomi Malayalam Research journal, Department of Malayalam, U.C.College, Aluva, February, 2016, ISSN: 2394-9791.
2. P.P. Raveendran "Lust for Life – and for Death," *Indian Literature* 279 (Jan-Feb 2014): 180-183.
3. Saji Mathew, "The Discourse of Class and the National-Cultural Imaginary: A Critique of *The Shadow Lines* in *Convergia*, Vol.3, Issue 3, 2014 (ISSN 2322-0651)
4. Saji Mathew, "The Politics of the Supernatural: *Yakshi* stories in Malayalam and the Social Context of Fear" in *Frightful Witnessing: The Rhetoric and (Re)Presentation of Fear, Horror and Terror*, Inter-Disciplinary Press: Oxford, 2014 (ISBN 978-1-84888-229-4)
5. Aju K.Narayanan "Translation as Hegemony : Initial Thoughts on the (re)presentation of Subaltern/Regional Writings in(to) English", *Tapasam, Journal for Kerala Studies*, Association for comparative studies, Vol.9, Issue 1-4, April 2014.
6. P.P. Raveendran "Literature as Supermarket: Mapping World Literature Today," *Interdisciplinary Alternatives in Comparative Literature*, ed. E V Ramakrishnan, Harish Trivedi and Chandra Mohan(New Delhi: Sage, 2013). 51-62.
7. P.P. Raveendran "D Vinayachandran: Tribute," *Indian Literature* 273 (Jan-Feb 2013): 33-40.
8. Jose Manuel, Punaravishkara cinema: Patavum Patanavum, Malabar Research Manual, Vol-I, No.1 April 2013, Dept. of Malayalam, Malabar Christian College, Calicut.

9. Jose Manuel, Navamadhyama Vyavaharanga: Pothu samoothavum Pothumandalavum, Research Scholar, Vol.III. No.1 September 2013
10. Jose Manuel, Revolution in Cinema: New Generation Cinema in Malayalam (English), Research Scholar, Vol III, No.IV-A, December 2013, Scholars Association of Kerala
11. Jose Manuel "S.K.Pottekkattinte Kathakal adhava thirakkathakal", Academic Journal of Vimala college, Thrissur, 2013.
12. Aju K.Narayanan "A cultural history of 'taste' in films: From Pather Panchali to Salt and Pepper", Revisiting Cultural Studies: Towards a new critical paradigm, Marthoma college, Tiruvalla, ISBN 978-93-82952-00-8, 2012.
13. Aju K.Narayanan "Prayuktha Vamseeya Sangeetha Patanam", Keli Bi-monthly, The official Journal of Kerala Sangeetha Nataka Akademi, Thrissur, February-May, 2012.
14. Aju K.Narayanan "Keralathile Joothar: Charithram, Jeevitham, Samskaram", Aureole (ISSN: 2249-7862), A journal of multi disciplinary studies and research, St.Stephen's College, Uzhavoor, Vol.IV, December 2012

Conference Proceedings-3

1. AjuK.Narayanan, "Paithrukavum Museumeekaranavum: Samskaravimarshana Vicharam", Seminar Proceedings of Cultural Studies: New Trends and Methods, Department of Malayalam, University of Kerala, Thiruvananthapuram, January, 2016.
2. P.P. Raveendran "The Story of Phulmoni: Translations of Modernity," Introduction to Phulmoniyudeyum Korunayudeyum Katha, Thiruvananthapuram: Chinta, 2013.
3. Aju K.Narayanan "Translation as Hegemony", Indian Literary Historiography and Counter Currents in Postcoloniality (ISBN 978-81-7821-436-8), Proceedings of the UGC National seminar, 2012, Postgraduate department of English, St.Thomas College, Kozhencherry.

Chapters In Books-25

1. Dr. Jose Manuel, Articles "Chalachitrapatangal", Manjil Viriyatha Pookkal, Harisree Publications, Kollam, 2016, ISBN: 81-8892-03-1
2. Dr. Jose Manuel "Puthusamoothavum Samoothyavyavahara nirmithiyum", Sujili Publications, Kollam, 2015, ISBN: 978-81-88959-08-9
3. K M Krishnan, And then VT Came Introduction, (2013) V T Bhattathiripad, *My Tears, My Dreams*, Oxford University Press.
4. K M Krishnan, Preface to *Kazhchayude Pakarnattangal (2012)* Papyrus Books, Pages 10-14
5. P P Raveendran, Literature as Supermarket: Mapping World Literature Today, *Interdisciplinary Alternatives in Comparative Literature*, (2013) ed. E V Ramakrishnan, Harish Trivedi and Chandra Mohan. Sage Publishers, New Delhi Pages: 51-62.
6. P P Raveendran, The Story of Phulmoni: Translations of Modernity, Introduction to *Phulmoniyudeyum Korunayudeyum Katha*, (2013) Thiruvananthapuram.
7. Saji Mathew Contributed translations to *The Oxford India Anthology of Malayalam Dalit Writing* (2012) M. Dasan, V. Prathiba, Pradeepan Pampirikkunnu, and C. S. Chandrika.

8. P S Radhakrishnan, Drisyaharshathinte Samayarekhakal, Indian Cinemayude Nooru Varshangal, (2013), Sahitya Pravathaka Co-operative Society Ltd.(SPCS), Kottayam Dist., Kerala State
9. Jose Manuel, Samskaraviplavathinte Sthreepaksha rashtreeyam, (2012) Malayalathile cherukathakarikal, NBS
10. Jose Manuel “Malayala Cinemayum Samoohavum”, Papirus Books, Kottayam
11. Jose Manuel, Thirakkatah Sahityam, Samakala Malayala Sahityam, Current Books, Kottayam
12. Jose Manuel, Puthusamoohavum Samoohyavyavahara Nirmithiyum, (2015) Sujili Publications, Kollam.
13. Jose Manuel, Navamadhyamangalile Drusyakhyanangal, (2015) Navamadhyamangal; Janakeeyathayum Viswasyathayam, Paridhi Publications
14. Jose Manuel, Thirakkatha: cinemayum sahityavum, (2015) Navamadhyama Patanangal.
15. Jose Manuel, Chalachitrapatangal, Manjil Viriyatha Pookkal, (2016) Harisree Publications, Kollam.
16. Harikumar S., Manushya Sannidhiyil oru Manushyan, *Kedatha sooryan: Akkitham kavitha Patanangal*, (2016) Vallathol Vidyapeetom, Shukapuram.
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63. Aju K.Narayanan “Mobile Kiliyude Kelviyum Vayanayum”, Pachakkuthira Monthly, DC Books, Kottayam, October 2012.
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SCHOOL OF MANAGEMENT AND BUSINESS STUDIES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 62 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 64 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 6 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 132 |

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3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 94 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 13 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | 1 |
| 8. | Articles in popular publications | Nil |
| | Total | 109 |

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91. Mercy Abraham, Theresa Susan A. & Jaya Jaise (2010). "Preparation and Standardisation of a Comprehensive Socio Economic Status Scale", *Indian Psychological Review*, Vol. 75, 271-277.
92. Minikutty A. & Athirra D. (2010). "Wisdom Development among Higher Secondary School Students in relation to their Social Intelligence". *Studies in Education*, 27(1).
93. Minikutty A. & Swapna Thomas (2010). "Influence of Critical Pedagogy in the Development of Primary School Students: Perception of Teachers". *Pedagogics*, 8(1).
94. Sajna Jaleel (2010). "Triological Learning in Practice", *Pedagogics*, 8(1), 69-73.

Chapters In Books: 13

1. Minikutty A. &Geethu G. Nair (2016). "Learning and Individual Difference" in Manichander T. (Ed.) "Psychology of Learning and Development", .Maharashtra: Laxmi Book Publication, ISBN: 978-1-329-99797-4, pp 25-68.

2. Minikutty A. & Sindhu P. G. (2016). "Sustainability and Environmental Education" in Ravi V. (Ed.) "Environmental Education". Maharashtra: Laxmi Book Publication, ISBN: 978-1-329-76041-7, pp 1-17.
3. Minikutty A. & Geethu G. Nair (2016). "Approaches to Learning Theories and its Educational Implications" in Ravi V. (Ed.) "Advanced Educational Psychology". Maharashtra: Laxmi Book Publication, ISBN: 978-1-329-99793-6, pp 47-85.
4. Minikutty A. & Geethu G. Nair (2016). "Teaching as a Profession" in Manichander T. (Ed.) "Teacher and Teaching Process". Maharashtra: Laxmi Book Publication, ISBN: 978-1-329-99789-9, pp 88-101.
5. Minikutty A. & Sindhu P. G. (2016). "Training Research and Evaluation of ECCE" in Manichander T. (Ed.) "Early Childhood Care and Education". Maharashtra: Laxmi Book Publication, ISBN: 978-1-329-72012-1, pp 100-119.
6. Minikutty A. & Sindhu P. G. (2016). "Meaning, Genesis and Scope of Inclusive Education" in Manichander T. (Ed.) "Inclusive Education". Maharashtra: Laxmi Book Publication, ISBN: 978-1-329-76332-6, pp 1-17.
7. Sajna Jaleel (2015). "Social Networking Sites: A Birds Eye View". In Rexlin Jose (Ed.) Education in the Digital Era: Channels for Confrontations, 161-170. Bangalore: Archers and Elevators Publishing House.
8. Sajna Jaleel (2014). "Towards improving the quality of education by integrating ICT in teacher education". In M.Beegum and M.S.Lalithamma, Teacher Education Practices: Innovative Trends, Pp. 149-155. Chennai: MJPPublishers.
9. Suresh K.P.(2013). "Globalization and Education: need for culturally Responsive teaching". in the edited book Global Education: Methodologies and Practice. Almighty book publishing Company, Chennai, ISBN: 978 – 81-920-309-68.
10. Suresh K.P.(2013). "Quality improvement programme for Tribal Children in India: Challenges and Possibilities". In the book Education for transformation in India. Concept Publication Company, New Delhi, ISBN: 978-9351-2510-71.
11. Jaya Jaise (2012). "Awareness of Performance-Based Assessment of English among Secondary School Teachers of Kerala", Learning and Application (Ed.Dr. Krishnan Maniam et al.). Chennai: Anuragam, pp. 425-429, ISBN: 978-93-8168-8-3.
12. Minikutty A. (2010). "An Effective Instructional Strategy - Cognitive Acceleration" in Professional Competence in Teaching, Jahitha Beegum, A., Bhargava Mahesh., & Vakkil M. (Eds.). Agra: RakhiPrakashan. ISBN: 978-93-80375-02-1.
13. Sajna Jaleel (2010). Use of Psychological Principles for student teachers Awareness. Professional Competence in Teaching. Jahitha Beegum, A., Bhargava Mahesh., & Vakkil M. (Eds.). Agra. ISBN: 978-93-80375-02-1. Agra: RakhiPrakashan.

Books Authored with ISBN: 1

1. Suresh K.P.(2015). "Environmental Pedagogy: Creative Approach. Solapur: Laxmi Book Publishing Company, ISBN: 978-1-329-67216-1.

Books Authored without ISBN: 1

1. Sajna Jaleel (2012). Pedagogy of Mathematics. Ottapalam: Krishna Publications

SCHOOL OF PHYSICAL EDUCATION AND SPORTS SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 12 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 15 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 1 |
| 7. | Articles in popular publications | Nil |
| | Total | 28 |

Refereed Journal Publications: 12

1. Varghese, B. G., Nair, I.P., (2012), Effect of anxiety on the performance of Basketball Players Research Lines Inter Disciplinary Research Journal, Vol.V, No.1 June 2012, 190-193, ISSN No.0975-894.
2. Varghese, B. G., Venu K.K., Deepak S. Guru S, (2012), Isolated and combined effect of Theraband resistance Exercise and Medicine Ball Exercise on selected Biochemical Variables of school boys Jyothi Research and Reflections, Vol.6 Issue 2 June 2012, 13-21, ISSN No. 0976-0865.
3. Varghese, B. G., Nair, I.P, (2012), Analysis of Physical fitness of costal area women's in Kerala, Inter Disciplinary Research Journal, Vol.II, No.II June 2012, 233-238, ISSN No.2249-6696
4. Varghese, B. G., Nair, I.P , (2012), Construction of Health Status Norms for Women in Costal Area of Thiruvanthapuram District, Journal on Physical Education and Sports, Vol.VII, Issue I, September 2012, 59-63, ISSN No.0975-4687.
5. Varghese, B. G., (2013) Online conference proceeding of the International Conference on Futuristic Trends In Physical Education, Vol.I, Issue I, January 2013, 59-63, ISSN No.0975-4687 titled " Effect of Circuit Training on Selected Motor Fitness Components and Physiological Parameters".
6. George C., Varghese, B. G., Manoj T.I., (2015), Effect of structured Physical Activity programme on gross motor function of adolescence with cerebral palsy. International Journal of Multi Dimensional Research, Vol.3, Issue 11, Impact factor 4.358, November 2015, ISSN No.2321-1784

7. Panackel M.B.(2012), Effect Of Different Training Methods On Power Output Among School Team Players. International Journal of advanced scientific and technical research, Vol.5,October 2012.
8. Panackel M.B.,(2011), Comparative Analysis of Sports Schools and Normal Schools Students on Physical Fitness and Mental Health Status, International Journal of Current Research, , Volume 3, December 2011,ISSN:0975-833X.
9. Panackel M.B.,(2011), A Study of Comparison Between Sports Schools and Normal Schools Students on Physical Fitness and Mental Health Status at Secondary Level, An international Research Journal of Physical education Sports and Allied Sciences, Vol.1, August 2011, ISSN 2249-717X.
10. Panackel M.B., (2015), Effect of laughing exercise on mental stress of secondary school students, National Journal of Current Research, Vol.1, 2015.
11. Panackel M.B., (2015), Effect of varied intensity circuit training on cardiovascular endurance among female college students, International journal in management and social science, Vol. 3, impact factor 3.25, 2015, ISSN:2321-1784.
12. Panackel M.B.,(2016) Effect of hot climate on sweat response of players, An international Research Journal of Physical education and Sports Management and Health Sciences, Vol. 2, 2016,ISSN 2349-6703.

Conference Proceedings: 15

1. Varghese B.G., Legacy of Physical Education and Public health challenges, Proceedings of the UGC sponsored National seminar on Nutrition and self care for health ageing organized by Bishop Kurialacherry College for Women, Kottayam from 14th to 15th January 2010.
2. Varghese B.G., An analytical study of Incentive Motivation of Badminton Players at National Level, Proceedings of the 4th National Conference on Multi disciplinary approach in Physical Education, organized by Punjabi University, Patiala from 1st to 2nd February 2010.
3. Varghese B.G., Psychology of coaching and motivation athletes, Proceeding of the UGC sponsored National seminar on Recent Trends in Physical Education, Sports, Health Education, Yoga and Stress Management, Catholicate College, Pathanamthitta from 13th to 15th August 2010 .ISBN No. 978-81-920273-0-2
4. Varghese B.G., Sudden Death in Young Athlete- Risk factor, Causes and Treatment, Proceedings of the UGC Sponsored One day National workshop on Sports Injuries, organized by U.C. College, Aluva on 21st March 2011
5. Varghese B.G., Promoting Physical Activity – The Necessity for Public Health, Proceedings of the UGC sponsored Two day seminar on Physical Activity and New Age Diseases - Current perspective, MES College Mampad, Malapuram from 12th to 13th March 2012. ISBN No. 978-81-923961-0-1
6. Varghese B.G., Effect of Circuit Training on Selected Motor Fitness Components and Physiological Parameters , Online conference proceeding of the International Conference on Futuristic Trends In Physical Education,Vol.I, Issue I, January 2013, 59-63, ISSN No.0975-4687 .

7. Varghese B.G., An Analysis of School student's attitude towards Physical Education and Sports- Proceeding of the UGC sponsored National seminar on prevalence and control of life style diseases in Kerala, Devamatha College, Kuravilangadu, June 2014, Vol. 4, Issue 3. ISSN No. 2229-4783.
8. Varghese B.G., GET-FIT-GET HEALTHY: Achieving the Abundant Life - Proceedings of the UGC sponsored National seminar on Mobilizing Youth through Physical Literacy and Physical Education, B.K College, Amalagiri, Kottayam January 2014.
9. Varghese B.G., Role of educators in promoting holistic health, wellness and fitness Proceeding of the UGC sponsored National seminar on Promoting wellness and fitness among Educators, Mount Carmel College of Teacher Education, Kottayam, March 2016,. ISSN No. 978-81-929468-3-2 Impact factor – Range/ Average - 4.358
10. C.R. Ajesh., Kinematic Analysis of Selected Biomechanical Parameters in Relation to Velocity of Jump Serve of National Level Male Volleyball Players' International Conference on 'Futuristic Trends in Physical Education' organized by Punjabi University, Patiala on 24th to 26th January 2013, ISBN: 978-93-80144-70-2.
11. C.R. Ajesh., Published a paper on 'Exercise: As a Key for Preventing Osteoporosis' UGC sponsored National Seminar on 'Prevalence and Control of Lifestyle Diseases in Kerala', organized by Devamatha College, Kuruvilangad, Kottayam on 6th and 7th February 2014.
12. C.R. Ajesh., Published a paper on 'Lifestyle Modification through Physical Activities' UGC sponsored National Seminar on ' Sports Culture and Society: Trends and Challenges' organized by Govt: Brennen College of Teacher Education, Thalassery, Kannur on 17th and 18th December 2014.
13. C.R. Ajesh ., Published a paper on ' Technological Interventions in Sports Biomechanics., UGC sponsored National Seminar on 'Emerging Trends in Sports Sciences organized by Govt: College of Physical Education, East Hill, Calicut on 27th and 28th November 2014.
14. C.R. Ajesh., Introducing Physical Activity for the Youth , UGC sponsored National seminar on Nations' Health: Mobilizing Youth Trough Physical Literacy and Physical Education, organized by Bishop Kurialencherry College for Women, Amalagiri, Kottayam on 16th and 17th
15. Panackel M.B., Role of Ayurveda in sports field, Published, National conference on physical education and sports sciences, October 2004

Books Authored with ISBN: 1

1. Binu George Varghese, Ashish Joseph Handbook of Rules and Regulations for Inter Collegiate Sports (2012) published by Association of Physical Education Teachers, **ISBN No. 978-81-89085-50-6**

SCHOOL OF PURE AND APPLIED PHYSICS

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 222 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 9 |
| 5. | Edited Books | 6 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 6 |
| | Total | 243 |

Refereed Journal Publications: 222

2016: 39

1. Mani, K. P., Vimal, G., Biju, P. R., Unnikrishnan, N. V., Ittyachen, M. A., & Joseph, C. (2016). Synthesis and optical characterization of host sensitized color tunable Tb²⁺-xEu^x (MoO₄)₃ nanophosphors for optoelectronic applications. *Journal of Materials Science: Materials in Electronics*, 27(1), 966-975.
2. Prasanth, S., Raj, D. R., Vineeshkumar, T. V., Thomas, R. K., & Sudarsanakumar, C. (2016). Exploring the interaction of L-cysteine capped CuS nanoparticles with bovine serum albumin (BSA): a spectroscopic study. *RSC Advances*, 6(63), 58288-58295.
3. Bose, R. J., Kavitha, V. S., Sudarsanakumar, C., & Pillai, V. M. (2016). Phase modification and surface plasmon resonance of Au/WO₃ system. *Applied Surface Science*, 379, 505-515.
4. Vineeshkumar, T. V., Raj, D. R., Prasanth, S., Sankar, P., Unnikrishnan, N. V., Pillai, V. M., & Sudarsanakumar, C. (2016). Composition dependent structural, Raman and nonlinear optical properties of PVA capped Zn_{1-x} Cd_x Cu_y S quantum dots. *Optical Materials*, 58, 128-135.
5. Raj, D. R., Prasanth, S., Vineeshkumar, T. V., & Sudarsanakumar, C. (2016). Surface Plasmon Resonance based fiber optic sensor for mercury detection using gold nanoparticles PVA hybrid. *Optics Communications*, 367, 102-107.
6. Raj, D. R., Prasanth, S., Vineeshkumar, T. V., & Sudarsanakumar, C. (2016). Surface plasmon resonance based fiber optic dopamine sensor using green synthesized silver nanoparticles. *Sensors and Actuators B: Chemical*, 224, 600-606.

7. Aparna, P., Varughese, M., Varghese, M. K., Haris, P., & Sudarsanakumar, C. (2016). Conformational features of benzo-homologated yDNA duplexes by molecular dynamics simulation. *Biopolymers*, 105(2), 55-64.
8. Mani, K. P., Vimal, G., Biju, P. R., Unnikrishnan, N. V., Ittyachen, M. A., & Joseph, C. (2016). Spectroscopic and phonon side band analysis of Tb 2– x Eu x (MoO 4) 3 nanophosphor. *Journal of Molecular Structure*, 1105, 279-285.
9. Vimal, G., Mani, K. P., Jose, G., Biju, P. R., Joseph, C., Unnikrishnan, N. V., & Ittyachen, M. A. (2016). Growth and characterization of Sm 3+ doped cerium oxalate single crystals. *Journal of Materials Research and Technology*.
10. Mol, B., Joy, L. K., Thomas, H., Thomas, V., Joseph, C., Narayanan, T. N., & Anantharaman, M. R. (2016). Evidence for enhanced optical properties through plasmon resonance energy transfer in silver silica nanocomposites. *Nanotechnology*, 27(8), 085701.
11. Vidyadharan, V., Sreeja, E., Jose, S. K., Joseph, C., Unnikrishnan, N. V., & Biju, P. R. (2016). Spectroscopic and photoluminescence characterization of Dy3+ in Sr0. 5Ca0. 5TiO3 phosphor. *Luminescence*, 31(1), 202-209.
12. Oluwafemi, O. S., Saha, A., Thomas, S., & Kalarikkal, N. (2016). Ultrasensitive detection of a 1-pyrenecarboxylic acid by surface enhanced Raman scattering hot spot with reduced graphene oxide/silver nanoparticles composites. *Materials Letters*, 171, 137-141.
13. Parakkal, F., Babukutty, B., Vettiyadan, B. A., Kalarikkal, N., & Nair, S. S. (2016). Experimental investigation of optical and magneto optical effects of chemically synthesized cobalt nanocolloids. *Materials Research Express*, 3(4), 045020.
14. Augustine, R., George, S. C., Kalarikkal, N., & Thomas, S. (2016). Gentamicin loaded electrospun poly (ε-caprolactone)/TiO2 nanocomposite membranes with antibacterial property against Methicillin resistant *Staphylococcus aureus* (MRSA). *Polymer-Plastics Technology and Engineering*, (just-accepted).
15. Augustine, R., Kalarikkal, N., & Thomas, S. (2016). Clogging-Free Electrospinning of Polycaprolactone Using Acetic Acid/Acetone Mixture. *Polymer-Plastics Technology and Engineering*, 55(5), 518-529.
16. Augustine, R., Kalarikkal, N., & Thomas, S. (2016). Electrospun PCL membranes incorporated with biosynthesized silver nanoparticles as antibacterial wound dressings. *Applied Nanoscience*, 6(3), 337-344.
17. Michael, M., Gopinathan, S., Sebastian, S., Willington, N. T., Varghese, A., & Venugopal, (2016), Ion-n Acoustic double lyers in a five component cometary plasma with kappa described electrons and ions *C. IOSR- JAP.*, 8 34-42
18. Mohan, S., Oluwafemi, O. S., Songca, S. P., Rouxel, D., Miska, P., Lewu, F. B., & Thomas, S. (2016). Completely green synthesis of silver nanoparticle decorated MWCNT and its antibacterial and catalytic properties. *Pure and Applied Chemistry*, 88(1-2), 71-81.
19. Mohan, S., Oluwafemi, O. S., Songca, S. P., Jayachandran, V. P., Rouxel, D., Joubert, O., & Thomas, S. (2016). Synthesis, antibacterial, cytotoxicity and sensing properties of starch-capped silver nanoparticles. *Journal of Molecular Liquids*, 213, 75-81.

20. Yaragalla, S., Anilkumar, G., Kalarikkal, N., & Thomas, S. (2016). Structural and optical properties of functionalized multi-walled carbon nanotubes. *Materials Science in Semiconductor Processing*, 41, 491-496.
21. Augustine, R., Bhavanavenugopal, S. S., Kalarikkal, N., & Thomas, S. (2016). Polyuronates and their Application in Drug Delivery and Cosmetics. *Green Polymers and Environmental Pollution Control*, 239
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7. Deepa P. Mohanan, Robin Augustine, Nandakumar Kalarikkal, Radhakrishnan E.K, Sabu Thomas: In *Nanomedicine and Tissue engineering- State of the art and recent trends*, Apple Academic Press, Inc. (2015)
8. Robin Augustine, Bhavana Venugopal, Nandakumar Kalarikkal, Sabu Thomas: In *Nanomedicine and Tissue engineering- State of the art and recent trends*, Apple Academic Press, Inc. (2015)
9. Robin Augustine, Snigdha S, Nandakumar Kalarikkal, Sabu Thomas: In *Green Polymer and The Environment Pollution Control*, Apple Academic Press, Inc. (2015)

Edited Books: 6

1. Nanomaterials: Synthesis, Characterization, and Applications, Volume 3 of the Advances in Nanoscience and Nanotechnology book series, Editors: A. K. Haghi, Ajesh K. Zachariah, Nandakumar Kalarikkal (2013)
2. Advanced Nanomaterials: Synthesis, Properties, and Applications, Editors: Sabu Thomas, Nandakumar Kalarikkal, A. Manuel Stephan, B. Raneesh and A. K. Haghi (2014)
3. Polymers for Packaging Applications Editors Sabu Thomas, SajidAlavi, Jini Varghese, Nandakumar Kalarikkal, and Oluwatobi Samuel Oluwafemi (2014)
4. Biomaterial Applications: Macro to Nanoscales Editors: Sabu Thomas, Nandakumar Kalarikkal, Yang Weimin, Snigdha S Babu.(2014)
5. Advances in Nanomedicine and Tissue Engineering Editors: Sabu Thomas, Nandakumar Kalarikkal, Anne George, Joshi K. S, and Robin Augustine.Apple Academic Press (2015)
6. Nanomedicine and Tissue engineering- State of the art and recent trends, Robin Augustine, BhavanaVenugopal, Nandakumar Kalarikkal, Sabu Thomas: Apple Academic Press, Inc. 9 Spinnaker Way Waretown, New Jersey, USA.(2015)

Articles In Popular Publications: 6

- 1 <http://lifeglint.com/content/indulekha/140423/sky-watching>
- 2 <http://lifeglint.com/content/indulekha/140112/theoretical-physics>
- 3 <http://lifeglint.com/content/indulekha/130913/invisible-universe>
- 4 <http://lifeglint.com/content/indulekha/130619/dark-matter-and-particles>
- 5 <http://lifeglint.com/content/indulekha/130523/sunflares>
- 6 <http://lifeglint.com/content/indulekha/13032503/large-hadron-collider-and-us>

SCHOOL OF SOCIAL SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|---|------------|
| | Refereed Journal Publications | 09 |
| | Monographs | Nil |
| | Conference Proceedings | 26 |
| | Chapters in Books | 18 |
| | Edited Books | 1 |
| | Books authored with ISBN | 4 |
| | Books authored without ISBN | 5 |
| | Articles in popular publications | 16 |
| | Total | 79 |

Refereed Journal Publications: 9

1. Religion, Social Space and Identity: Prathyaksha Raksha Daiva Sabha and the Making of Cultural Boundaries in Twentieth Century Kerala', South Asia n.s. Vol. XXVIII. no.1, April, 2005. pp.35-63.
2. 'Narrativising Oppression and Suffering: Theorizing Slavery', South Asia Research (Vol. 26 No1, February, 2006, pp.5-40)
3. 'Dalit Discourse and the Evolving New Self: Contest and Strategies', Review of Development and Change. Vol. IV. No.1 January-June 1999 1-24 Madras institute of Development Studies.
4. 'Beyond Subaltern Studies: Locating Dalit Studies', Contributions to Indian Sociology, 2014
5. 'Global Capital and Peripheral Labour: The History and Political Economy of Plantation Workers in India', by K. Ravi Raman: London, Routledge, 2010 in Journal of Agrarian Change, Vol. 14, Issue 1, 2013, pp.155-9
6. Review of 'Slavery in South Asia' edited by Indrani Chatterjee and Richard Eaton, Bloomington, Indiana University Press in The Medieval History Journal, 2009:12:141
7. Reconsidering Untouchability: Chamars and Dalit History in North India by Ramnarayan Rawat Bloomington, Indiana University Press, Bloomington, forthcoming in Studies in History, 2014
8. 2012. Review of Pogrom in Gujarat. Hindu Nationalism and Anti-Muslim Violence in India, by Ghassem-Fachandi Parvis. Princeton: Princeton University Press forthcoming in Social Anthropology.

9. 'From Slaves to Human beings: Struggle for Citizenship in Late Nineteenth and Twentieth Century Kerala, India' at CODESRIA, Dakar, Senegal, 2 Nov 2009

Conference Proceedings: 26

1. 'Subaltern in Kerala: Subaltern Studies in Translation' in paper presented in the "Postcolonial Translation: Multi-disciplinary Perspectives from South Asia" Workshop Jointly Organized by the Postcolonial Studies network in association with Newcastle University (UK), SOAS (UK), Delhi University, and Jawaharlal Nehru University January 7-9, 2011.
2. 'Struggles for dignity, respect and inclusion: Reflections on Social Movements in Kerala', Paper presented in the workshop on Development and Social Movements in India 29- 31, Centre for Political Studies, Jawaharlal Nehru University New Delhi, March 2011.
3. 'Caste Identities in Contemporary Kerala', Paper presented at CSDS Delhi April 11, 2011
4. A conference on Love and Revolution at Nehru Memorial Museum at New Delhi, Jan 20-22, Impossibility of Family
5. "Colonialism Social Movements and the Creation of Documents: Exploring the Archive of Dalit and other lower caste groups in Kerala, South West India", paper presented at the Workshop on Globalization and Preservation organized by Goldsmith College London, 3-8 September
6. Modernity of Slavery: Studies against Caste inequality in 20th century India, November 2011 Centre for the Advanced Study of India, University of Pennsylvania
7. 'Caste Identities in Contemporary Kerala', at CSDS Delhi April 11, 2011
8. **2012.** Coordinated a panel on Dalit Social Movements: Questions of theory and knowledge production at IIS 40th World Congress Delhi 16-19 February 2012
9. Workshop on New Directions in the Study of Prayer, SSRC New York, October 5 – 6
10. **2013.** From the Lord's Prayer to Invoking Slavery through Prayers: Religious Practices of Dalits in India, paper presented in the Max Planck institute for the study of religious and ethnic diversity 29th April
11. From the Lord's Prayer to Invoking Slavery through prayers: Religious Practices of Dalits in India, paper presented in the Workshop on New Directions in the Study of Prayer, SSRC New York, May 16 – 17
12. From the Lord's Prayer to Invoking Slavery through prayers: Religious Practices of Dalits in India, paper presented in the Workshop on New Directions in the Study of Prayer, SSRC New York, October 4 – 5
13. Social and Religious Experience of Dalit Christians in Kerala: A Historical Analysis, paper presented in South Asia Research and Information Institute, Dallas, and Asian Studies, Southern Methodist University, US, September 27 - 28
14. Caste, Social Movements and the Question of Progress: Towards an understanding of Dalit movements January 20, 2014 Plenary Address in the National Conference Organized by ICPR and TISS Mumbai, January 20-21, 2014 at TISS Mumbai
15. "Complexities of Colonialism and the Question of Affect: The Problem of Caste Slavery in Kerala" paper presented in the conference "Economy, Reason, Affect:

Anti-Colonial Sensibilities 1860-1950” at Nehru Memorial museum and Library, New Delhi, 7-9, January 2014

16. Caste, Region, Archives Paper presented in the ICSSR Sponsored Research Training Workshop on ‘Caste and Marginalization: Methodological Perspectives,’ Institute of Economic Growth, Delhi, February 25, 2014
17. Discussant for the Panel on Vernacular Archives and Possibilities for the Study of Caste, Institute of Economic Growth, Delhi, February 26, 2014
18. Histories of Experience: Writing Dalit Histories in Kerala paper presented in the International Conference on ‘the Caste Question and the Historians Craft, 26-28 February, CSDS New Delhi,
19. Discussant for the Panel on Caste and Discrimination in the Workshop on Law, Culture and Social Justice organized by CSSSC/ICSSR at Santiniketan, March 11, 2014 (March 9-14, 2014)
20. **2015.** Workshop at SSRC, New York: Paper presented titled ‘Prayers as life affirming practices: Dalit Christianity in Kerala’, Feb. 4-6
21. Paper presented titled ‘Social and Religious Experience of Dalit Christians in Kerala: A Historical Analysis’, Erfurt University, Germany, Panel: Friday, August 28
22. Book Talk, ‘Modernity of Slavery’ at Max Planck Institute for the Study of Religious and Ethnic Diversity, Gottingen, Germany, October 09, 2015
23. Paper presented titled ‘Prayers as Life-affirming Practices: Dalit Christianity in Kerala’ at Max Planck Institute for the Study of Religious and Ethnic Diversity, Gottingen, Germany, November 24, 2015
24. National Workshop on: Doing Research in History-Recent Trends. Paper Presented, 17-11-2014, Department of History, University College, Trivandrum sponsored by College Education, Government of Kerala
25. National Workshop on: Workshop on Emerging Dimensions of scientific Research. Paper Presented, Sponsored by Association of International Researchers of India Origin, at Nilampur, Fathima College of Arts and Science, 5th, 6th and 7th, December-2014.
26. Presented a paper on ‘Research Methodology’ 19-12-2014 at the Department History Conducted by Research Scholars Association, Sreeshankara University, Kalady.

Chapters In Books: 18

1. Rajesh Komath, Bhawani Cheerath-Rajagopalan Theyyam: The Other Gods (2012) Stark World Publishing Private Ltd.
2. Rajesh Komath, Nattudaivangal Samsarichu Thudangumbol, (2013) Mathrubhumi Books.
3. Random Walk Through Historiography: South India, (2016) Kerala-Council for Historical Research.
4. P. Sanal Mohan Modernity of Slavery, (2015) Oxford University Press.
5. Vishwasavum Vimochanavum, CSS.
6. T.S. Girishkumar (2012) Jihadi Terrorism, On the Trail of its Epistemology and Genealogy, Munshiram Manoharlal Publishers.
7. The Enigmatic Mohammad Ali Jinnah, **TS Girishkumar**, The Quarterly Journal of the Mythic Society, Vol. 101-No 4, pp. 28-64, 2010. ISSN- 0047-8555,

8. The Beginning of Terrorism Jamaluddin Afghani, **TS Girishkumardo**- Vol.101- No 3, 2010., pp. 38-46, 2010. ISSN-0047-8555
9. 'Religion, Social Space and Identity: Prathyaksha Raksha Daiva Sabha and the Making of Cultural Boundaries in Twentieth Century Kerala', in Subhadra Channa Mitra and Joan P. Mencher (ed) Life as a Dalit, New Delhi, Sage, 2013.
10. 'Caste and Accumulation of Capital' in Oxford India Anthology of Malayalam Dalit Writing, M.Dasan (et al) New Delhi, Oxford University Press, 2012
11. 'Narrativizing the History of Slave Suffering' in K. Satyanarayana and Susie Tharu, eds. No Alphabet in Sight New Dalit Writing From South India Dossier I; Tamil and Malayalam. New Delhi, Penguin Books, 2011 pp 534-555, New Delhi.
12. "Searching for old Histories": Social Movements and the Project of Writing History in Twentieth-Century Kerala in Raziuddin Aquil and Partha Chatterjee (ed). History in the Vernacular New Delhi, Permanent Black 2008 pp 357-390
13. Dynamics of Social transformation in a Kerala billage: A case Study of Naduvannur Village in Kerala, in K.N. Nair and Vineetha Menon (ed). Social Change in Kerala; Insights from Micro Level Studies, Delhi Daanish Books, 2007.
14. 'Theorising History in the Context of Social Movements: Challenges to the Reigning Paradigms of History?,' in Felix Wilfred and Jose D. Maliekkal (eds) Historiography Today (Madras University, Chennai, 2002), pp 99-110.
15. 'Caste and the Problem of Accumulation of Capital', in T.M. Yesudasan (ed) Dalit Svatvavum Adhikarathinte Prasnavum (Dalit Identity and the Problem of Power), Kottayam, Almond Books 1998.
16. World System Theory in TR Venugopalan (ed) History and Theory, National Seminar Papers, (Trichur: Department of History, Government College: 1997)
17. 'South India As An Entity in Historiography' in M. P. Mujeebu Rehman and K. S. Madhavan, (eds) Exploration in South Indian History, Sahithya Pravarthaka Co-operative Society Ltd, 2014
18. **Book:** Random Walk Through Historiography: South India, 2016, Kerala Council for Historical Research, Thiruvananthapuram. ISBN No: 81-85499-57-8

Edited Books: 1

1. Education for Peace Social Inclusion and Sustainable development: Towards a Paradigm Shift, Radika P Vol. I, SIR, M.G. University, 2011. ISBN 978-81-910190-55-5-6

Books Authored With ISBN: 4

1. "JIHADI TERRORISM", On the Trail of its Epistemology and Genealogy, TS Girishkumar Munshiram Manoharlal Publishers, New Delhi, ISBN 978-81-215-1256-5, 2012
2. Green Economics: Need of the Contemporary World, Rajesh Komath 2015. ISBN: 978-93-5254-254-3, Department of Economics, NMSM Government College, Kalpetta, Wayanad

3. Nattudaivangal Samsarichu Thudangumbol, Rajesh Komath (When Local Gods Start Speaking) Mathrubhumi Books, 2013: ISBN: 978-81-8265-868-4.
4. Theyyam: The Other Gods Rajesh Komath, (Stark World Publishing Private Ltd, 2012: ISBN 978-81-906936-1-5), Co-authored with Bhawani Cheerath-Rajagopalan.

Books Authored without ISBN: 5

1. Modernity of Slavery Struggles against Caste Inequality in Colonial Kerala
2. Visvasavum Vimochanavum – co-authored with Vinil Baby Paul
3. 'Social Movements and Citizenship: Challenges from the margins in Contemporary India', at CODESRIA, Dakar, Senegal, 6 Nov 2009
4. Public Sphere and Citizenship: Postcolonial Challenges', at CODESRIA, Dakar, Senegal, 11 Nov 2009
5. Social and Religious Experience of Dalit Christians in Kerala: A Historical Analysis', paper presented in one day conference on conversion, caste and coexistence: Christianity in South India at SARII, 28 Sep 2013

Articles In Popular Publications: 16

1. Dr. KT Rammohan, 'Pathways to India's Economic Past' in D Narayana and Raman Mahadevan Eds. Shaping India: Economic Change in Historical Perspective. New Delhi: Routledge. 2011. pp. 323-347.
2. Dr. KT Rammohan with Abida Ramamakrishnan, 'Sambadsastratinte Indian Charitham' (History of economics in India) in TV Madhu. Ed. Marx Vaayanakal (Marx Readings). Kozhikode: Raspberry Books. 2015. 417-432.
3. Dr. KT Rammohan, Abitha Ramakrishnan). 'Nammalkku Ariyaamo Nammude Sambadsastram?' (Do we know our economics? – A disciplinary history of Economics in India). Matrubhumi Weekly December 7-13, 2014. 8-18.
4. Religion as a Barrier in Women's Empowerment, Review of the book 'Religion, Patriarchy and Capitalism' by Jayanti Alam, 2013. <http://www.thehindu.com/todays-paper/tp-business/religion-as-a-barrier-in-womens-empowerment/article5366075.ece>
5. Paraiyans' Self-assertion for Identity, Review of Nandanar's Children: The Paraiyans' Tryst with Destiny Tamil Nadu 1850—1956, Raj Sekhar Basu, Sage India, New Delhi, 2011, 492 pp, Rs 895, esocialsciences, Mumbai, October 11, 2011 <http://www.esocialsciences.org/Articles/showArticle.aspx?acat=Book+Reviews&aid=4503>
6. Lives on the Margins of British Colonialism, Review of the book 'Subaltern Lives: Biographies of Colonialism in the Indian Ocean World, 1790-1920: Clare Anderson; Cambridge University Press India Pvt. Ltd., 4381/4, Ansari Road, Daryaganj, New Delhi-110002. Rs. 995. The Hindu, October 15. 2012. <http://www.thehindu.com/books/lives-on-the-margins-of-british-colonialism/article3999774.ece>
7. Social Implications of Economic Reforms in India, Review of the book 'Economic Reforms and Social Exclusion: Impact of Liberalization on Marginalized Groups in India', by K S Chalam, Sage Publications, New Delhi, India, esocialsciences, Mumbai, December 26, 2011.

8. <http://www.esocialsciences.org/Articles/showArticle.aspx?acat=Book+Reviews&aid=4660>
9. SavarnaMadambithathindeAslelathakal, co-authored: Samakalika Malayalam Varika (November 11: 2011: pp: 22-24)
10. Jathi Vazhakavum Samuhikaparathayum (Theyyam: caste and sociality) Samakalika Malayalam Varika (October 21: 2011: pp: 54-59)
11. Theyyam: William Logan muthal William Dalrymple Vare (Theyyam: From William Logan to William Dalrymple) Samakalika Malayalam Varika (October 14: 2011: pp: 46-52)
12. Eratta Jeevithangal (Double Lives), Samakalika Malayalam Varika Annual Issue (June 17: 2011: pp: 217-238)
13. Ananthamoorthy Commission Report: Oru Dalit Vicharam: co-authored: Sasthragathi (January 2011: pp. 9-13)
14. Padikantha Padabgal: Randu Sarkar Schoolukalude Katha, co-authored (Unfinished Lessons: The tale of Two Government Schools) Samakalika Malayalam Varika (April 27: 2012: pp: 35-47)
15. Nandanarude Makkal (Nandanar's Children) Samakalika Malayalam Varika (March 30: 2012: pp: 88-90)
16. Keralathile Dalit Vidyabhyasa Charithrathinu Oramukham, co-authored (Preface to the History of Education of the Dalits in Kerala), Vijnanakairali, a publication of the Institute of Language, Government of Kerala (December 2011: pp. 61-72)

SCHOOL OF TOURISM STUDIES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 6 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 7 |
| 4. | Chapters in Books | 1 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 5 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 200 |
| | Total | 220 |

Refereed Journal Publications: 6

2016: 1

1. Robinet, J., Mahadevan, P., & Anita, T. A. (2016). The Green Souvenir Industry of Kerala–A Comprehensive Analysis. Atna-Journal of Tourism Studies, 11(01) 47-57. ISSN 0975-3281

2015: 2

2. Joseph, S., & Jacob, R. (2015). Regulatory Framework in Healthcare Delivery: A Study of the Kerala Medical Travel Industry. Rajagiri Journal of Social Development, 7(2), 149.
3. Joseph, S., & Jacob, R. (2015). “Conceptual Dilemma and Aftermaths: A Critical Analysis of Medical Tourism”, Vidya Niketan Journal of Management Research, ISSN 2320-3951

2014: 2

4. Joseph, S., & Jacob, R. (2014). Medical Tourism and Medical Tourists: A Conceptual Analysis. Rajagiri Journal of Social Development, 6(2), 13. ISSN 0973-3086.
5. Joseph, S., & Jacob, R. (2014), “Hospitals and Hospitality - A Blend of Curative Care: A Study of Medical Tourism Hospitals in Kerala”(2014), Bharathamatha Journal of Management.

2011: 1

6. Robinet, J. et al, (2011) Health Care in Foreign Hands: Trends, Issues, Directions. Review of Business Research, Las Vegas, USA.

Conference Proceedings: 7

1. Robinet, J. , “Destination Branding through Community Involvement: A case study of ‘Discover Kottayam’ initiative from Kerala”, accepted for a full paper presentation in the conference of ICBTS International Sustainable Development Business and Tourism, Boston, USA, June 30 - July 1, 2016
2. Robinet, J. , “Role of Social Media in influencing Travel decision making among foreign tourists visiting Kerala”, Annual conference of International Society of Travel and Tourism Educators (ISTTE), Charlotte, North Carolina, USA, October 15 - 17, 2015.
3. Robinet, J. “Barrier Free Tourism for Equitable and Sustainable Tourism Development and Management in Kerala,” Annual conference of International Society of Travel and Tourism Educators (ISTTE), Detroit, Michigan, USA, October 17-19, 2013.
4. Robinet, J.. “Product Attractiveness of Kerala House Boats In Promoting Tourism - A Performance Analysis”, Annual conference of International Society of Travel and Tourism Educators (ISTTE), Miami, USA - 20 Oct -22nd Oct, 2011 “The international sounds and tastes of tourism education. In Annual Conference Proceedings of Research and Academic Papers. Vol. 23. 2011.
5. Robinet, J , “Tourism Curriculum in Greece and India – A Comparative Analysis”, Robinet Jacob, Moira, P; Mylonopoulos, D; Kuruvilla, A; Weng, R (2011) In Proceedings of the 7th International Conference on Education Volume A. July 7-9, Samos, Greece. ISBN 978-960-466-081-0
6. Robinet, J, “Can God’s Own Country Sustain Itself? Eco friendly practices for Sustainable Tourism Development and Management in Kerala” (2010), International Society of Travel and Tourism Educators (ISTTE) Conference Proceedings, Long Beach, Mexico, 18-22Oct, 2010.
7. “Robinet, J, Health Care in Foreign Hands: Trends, Issues, Directions” (2010), Annual conference of International Academy of Business and Economics, Las Vegas, 17-20 Oct, 2010

Chapters in Books: 1

1. Robinet Jacob (2014), “A uniform approach for Tourism Education in India: Potentials, Problems and Prospects” in the book ‘Transforming Communities through tourism’, by Victorious Publishers (India).

Edited Books: 1

1. Robinet Jacob, Tourism Products of Kerala (2012), School of Tourism Studies, Kottayam

Books Authored With ISBN: 5

1. Robinet Jacob, Places of Touristic Interest In India (2013), Abhijeet Publishers, New Delhi

2. Robinet Jacob, Buddhist Tourism In India (2013), Abhijeet Publishers, New Delhi
3. Robinet Jacob, Tourism Products of India: A National Perspective (2012), Abhijeet Publishers, New Delhi
4. Cyril Mathew, Confidence Pour Confidence - French novel by Paule Constant translated to Malayalam as “Hrudayam Hridayathodu”, (2012), D.C Books, Kottayam
5. Cyril Mathew, Le Francais pour Tous (2013), French Text book for MTTM, M.G University publications, Second Edition 2016

Articles In Popular Publications: 200

| SL NO | Title of the Article | Name of the Magazine / Newspaper in which the article published | Date, Month & Year of Publication |
|--------------|--|--|--|
| 1 | <i>Tourism needs Public Private Participation</i> | Kerala calling (IPRD Magazine of Kerala Government) | May – 2011 |
| 2 | <i>25 years of Kerala’s Tourism Industry</i> | Asian Traveler | July – 2011 |
| 3 | <i>Kerala Tourism Celebrating silver jubilee</i> | Kerala Tourism | July – 2011 |
| 4 | <i>Kerala Tourism – Forging ahead</i> | Asian Traveler | September – 2011 |
| 5 | <i>Exploring Paniyeliporu</i> | Deccan Chronicle | 16 th September – 2011 |
| 6 | <i>Tourism Facets of Nila</i> | Kerala Tourism (ISSN 2249245) | October – 2011 |
| 7 | <i>Kerala Tourism – A favorable season ahead</i> | Kerala Calling | October – 2011 |
| 8 | <i>The groves of Kadalundi</i> | Deccan chronicle | 7 th October – 2011 |
| 9 | <i>Chettuva – An attractive blend</i> | Deccan chronicle | 4 th November – 2011 |
| 10 | <i>Angadipuram – Throbbing with tradition</i> | Deccan chronicle | 11 th November – 2011 |
| 11 | <i>Beauty that is Munroe Island</i> | Deccan chronicle | 18 th November – 2011 |
| 12 | <i>Akamala – The land with a divine aura</i> | Deccan chronicle | 9 th December – 2011 |
| 13 | <i>Velliyamkallu – A rock solid option for adventurers</i> | Deccan chronicle | 30 th December – 2011 |
| 14 | <i>Travel Circuits – A Circuits Route</i> | Asian Traveler | December – 2011 |
| 15 | <i>A Virgin Beach called Love Shore</i> | Deccan chronicle | 13 th January – 2012 |
| 16 | <i>Choolannur – An abode of Peacocks</i> | Deccan chronicle | 3 rd February – 2012 |
| 17 | <i>Vaniyambalam – Rock Solid destination</i> | Deccan chronicle | 17 th February – 2012 |
| 18 | <i>Cheruthuruthy – Steeped in Tradition</i> | Deccan chronicle | 24 th February – 2012 |
| 19 | <i>Nilambur – Shornur Rail Line – Keeping a Track of Natural Wonders</i> | Deccan chronicle | 2 nd March – 2012 |

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| 20 | <i>Wayanad Pass – Gateway to Serenity</i> | Deccan chronicle | 23 rd March – 2012 |
| 21 | <i>Innovative Marketing keeps Kerala Tourism right on Top</i> | Kerala Tourism (ISSN 2249245) | March – 2012 |
| 22 | <i>NenmaraVallengi Vela – Festivities of two villages</i> | Deccan chronicle | 13 th April – 2012 |
| 23 | <i>Lingering Charm of Trithala</i> | Deccan chronicle | 04 th May – 2012 |
| 24 | <i>Manjeswar – Surprise Package</i> | Deccan chronicle | 25 th May – 2012 |
| 25 | <i>Nilayoram Park – Where Culture meets Heritage</i> | Deccan chronicle | 08 th June – 2012 |
| 26 | <i>BiyyamKayal – Unique Name Gorgeous Sights</i> | Deccan Chronicle | 15 th June – 2012 |
| 27 | <i>Kolavipalam – “The Turtle Beach of Kerala”</i> | Deccan Chronicle | 06 th July 2012 |
| 28 | <i>Western Ghats – “An Evergreen Heritage Site”</i> | Asian Traveler | July – 2012 |
| 29 | <i>Thirteen Eye Bridge – “Standing The Test of Time”</i> | Deccan Chronicle | 13 th July – 2012 |
| 30 | <i>Nooranad – “Kerala’s Bird Village”</i> | Deccan Chronicle (Newspaper) | 17 th August – 2012 |
| 31 | <i>Nileswhar – “Flowing with tradition”</i> | Deccan Chronicle | 24 th August – 2012 |
| 32 | <i>Boat Races of Kerala</i> | Kerala Calling (IPRD Magazine of Kerala) | August – 2012 |
| 33 | <i>Unique Concepts & Innovative Strategies – “The Success Mantra of Kerala Tourism”</i> | Kerala Tourism (ISSN 2249245) | August – 2012 |
| 34 | <i>Roving Carnival</i> | Asian Traveler Magazine | August – 2012 |
| 35 | <i>A Colossal Bridge</i> | Deccan Chronicle | 14 th September 2012 |
| 36 | <i>Railway Capital of Kerala</i> | Deccan Chronicle | 21 st September 2012 |
| 37 | <i>Picturesque Grassland</i> | Deccan Chronicle | 28 th September 2012 |
| 38 | <i>When Monsoon hits its Tourism</i> | Pass Line Business Magazine | September – 2012 |
| 39 | <i>Nila – Not just a river</i> | Asian Traveler | September – 2012 |
| 40 | <i>Explore the flying wonders</i> | Asian Traveler | September – 2012 |
| 41 | <i>Iringal – Crafts Village of Kerala</i> | Deccan Chronicle | 19 th October – 2012 |
| 42 | <i>Kavalappara Palace – Reflection of Royal heritage</i> | Deccan Chronicle | 26 th October -2012 |
| 43 | <i>PCG – More than a cricket ground</i> | Deccan Chronicle | 2 nd November -2012 |
| 44 | <i>Tourism - Fifty Questions & Answers</i> | Mathrubhumi TozhilVartha (Harisree Supplement) | 3 rd November - 2012 |
| 45 | <i>Bharathapuzha</i> | Kerala Calling | November – 2012 |

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| 46 | <i>Vallikkunnu – A charismatic beach</i> | Deccan chronicle | 9 th November – 2012 |
| 47 | <i>Alternative Products to Woo Visitors</i> | Pass line Business Magazine | November – 2012 |
| 48 | <i>Role of World Tourism Day</i> | Asian Traveler | November – 2012 |
| 49 | <i>Attapadi – Where nature remains pristine</i> | Deccan Chronicle | 30 th November – 2012 |
| 50 | <i>Padinjarekkara – Confluence of Rivers & Sea</i> | Deccan Chronicle | 7 th December – 2012 |
| 51 | <i>Kerala Tourism & Railways</i> | Pass Line Business Magazine | December – 2012 |
| 52 | <i>Kalasamala – A Heavenly Abode</i> | Deccan Chronicle | 21 st December 2012 |
| 53 | <i>Kerala Tourism Super Brand</i> | Kerala Calling | January 2013 |
| 54 | <i>Charming Chaliyam</i> | Deccan Chronicle | 25 th January 2013 |
| 55 | <i>Kochi, the event capital is boosting business tourism</i> | Pass line Business Magazine | February 2013 |
| 56 | <i>Enchanting Estuaries of Kasargod</i> | Deccan Chronicle | 1 st February 2013 |
| 57 | <i>NilamburPattu – Tribute to a bygone era</i> | Deccan Chronicle | 8 th February 2013 |
| 58 | <i>Forest & Wildlife – Question & Answers</i> | MathrubhumiTozhilVartha (Harisree Supplement) | 9 th February - 2013 |
| 59 | <i>Discovering Incredible India</i> | Deccan Chronicle | 22 nd February 2013 |
| 60 | <i>Vazhalikavu – God's own sacred grove</i> | Deccan chronicle | 22 nd March 2013 |
| 61 | <i>Festival Tourism in full swing</i> | Pass line Business Magazine | March 2013 |
| 62 | <i>Maranchery – Chill out with the water birds</i> | Deccan chronicle | 29 th March 2013 |
| 63 | <i>Thirunavaya – A Historic destination</i> | Deccan chronicle | 19 th April – 2013 |
| 64 | <i>Oyster Opera – A Unique Island Getaway</i> | Deccan chronicle | 3 rd May – 2013 |
| 65 | <i>Summer Festivals – A Special Interest Tourism Product</i> | Asian Traveler | April – 2013 |
| 66 | <i>Irunilamkode Cave Temple – A shrine on the hill top</i> | Deccan Chronicle | 31 st May – 2013 |
| 67 | <i>Nilambur – Shoranur – Eco-friendly rail route of God's own country</i> | Asian Traveler Magazine | May – 2013 |
| 68 | <i>Sustainable Tourism & Environmental Conservation</i> | Asian Traveler Magazine | June – 2013 |
| 69 | <i>Evergreen Rail a plus for Kerala Tourism</i> | Kerala Calling | June – 2013 |
| 70 | <i>Chasing the Monsoon</i> | Deccan Chronicle | 28 th June 2013 |

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| 71 | <i>Unrivalled Wonders of Kerala</i> | Kerala Calling | July – 2013 |
| 72 | <i>UNESCO Tag for Hill Forts of Rajasthan</i> | Asian Traveler Magazine | July – 2013 |
| 73 | <i>Perumon – Beauty in the shadow of tragedy</i> | Deccan Chronicle | 26 th July – 2013 |
| 74 | <i>Water Heritage Museum – The Heritage of Water</i> | Deccan Chronicle | 2 nd August – 2013 |
| 75 | <i>Gavi – Escape to Wilderness</i> | Deccan Chronicle | 9 th August – 2013 |
| 76 | <i>Kerala Tourism should move on to pastures new</i> | Pass line Business Magazine | August – 2013 |
| 77 | <i>Kerala Kalamandalam – A Voyage into Heritage</i> | Deccan Chronicle | 23 rd August – 2013 |
| 78 | <i>Kozhikode Railway Station – 125 years & Active</i> | Deccan Chronicle | 30 th August – 2013 |
| 79 | <i>Thovalai – Fragrance everywhere</i> | Deccan Chronicle | 13 th September – 2013 |
| 80 | <i>World Tourism Day 2013 – “Protecting our common future”</i> | Kerala Calling | September – 2013 |
| 81 | <i>Palmyra’s of Palakkad</i> | Deccan Chronicle | 27 th September – 2013 |
| 82 | <i>Seven Water fall wonders of Kerala</i> | Asian Traveler Magazine | September – 2013 |
| 83 | <i>Tourism industry needs responsible projects</i> | Pass line Business Magazine | September – 2013 |
| 84 | <i>Andaman Unraveled</i> | Deccan Chronicle | 4 th October – 2013 |
| 85 | <i>Nila – A view to behold</i> | Deccan Chronicle | 11 th October – 2013 |
| 86 | <i>River Kallai continues to charm</i> | Deccan Chronicle | 22 nd November – 2013 |
| 87 | <i>Purathur – Winter resort of migrant birds</i> | Deccan Chronicle | 29 th November – 2013 |
| 88 | <i>Thirunavaya – Lotus, lotus everywhere</i> | Deccan Chronicle | 06 th December – 2013 |
| 89 | <i>Getting around @ Perumbavoor</i> | Deccan Chronicle | 13 th December – 2013 |
| 90 | <i>Birding Tourism prospects of Kerala</i> | Pass line Business Magazine | December – 2013 |
| 91 | <i>Fare the competition – Innovation the way</i> | Kerala Calling | December- 2013 |
| 92 | <i>Krishnagiri Cricket stadium – Cape Town in Kerala</i> | Deccan Chronicle | 03 rd January – 2014 |
| 93 | <i>Parunthumpara, Anjuruli&Ramakkalmedu – Awesome Threesome</i> | Deccan Chronicle | 31 st January – 2014 |
| 94 | <i>Sasthamcotta Lake – Still water runs deep</i> | Deccan Chronicle | 07 th February – 2014 |
| 95 | <i>Kumarakom Model Positioned Kerala Tourism on Pinnacle</i> | Kerala Calling | February – 2014 |
| 96 | <i>AattukalPongala – Kumbhamela of Kerala</i> | Deccan Chronicle | 21 st February – 2014 |

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| 97 | <i>Mesmerizing Mini Pampa</i> | Deccan Chronicle | 28 th February – 2014 |
| 98 | <i>KakkoorKalavayal – Fresh Oxygen & an Oxen Race</i> | Deccan Chronicle | 14 th February – 2014 |
| 99 | <i>Angadipuram Railway Station – “Alight here and be charmed”</i> | Deccan Chronicle | 28 th March – 2014 |
| 100 | <i>Birding Tourism Hub & Spots in Kerala</i> | Kerala Calling | March – 2014 |
| 101 | <i>Aluva – A Helluva Town</i> | Deccan Chronicle | 4 th April – 2014 |
| 102 | <i>Kerala’s rich Heritage Tourism Potential</i> | Pass line Business Magazine | March – April 2014 |
| 103 | <i>Kuttanad – Life in blue & green</i> | Deccan Chronicle | 11 th April – 2014 |
| 104 | <i>Lessons learnt on the move</i> | Deccan Chronicle | 18 th April – 2014 |
| 105 | <i>Malayattoor - The Lourdes of Malayalis</i> | Deccan Chronicle | 25 th April – 2014 |
| 106 | <i>S.M Street – Story of a street</i> | Deccan Chronicle | 9 th May– 2014 |
| 107 | <i>The world within Kerala</i> | Deccan Chronicle | 16 th May – 2014 |
| 108 | <i>Kerala’s own festivals</i> | Kerala Calling | May - 2014 |
| 109 | <i>Pathiramanal – Haven for Diversity</i> | Deccan Chronicle | 6 th June – 2014 |
| 110 | <i>Matheran – Queen of the hills</i> | Deccan Chronicle | 13 th June – 2014 |
| 111 | <i>Chasing the Monsoon</i> | Deccan Chronicle | 20 th June – 2014 |
| 112 | <i>Feroke - Tipu Sultan’s dream capital</i> | Deccan Chronicle | 27 th June – 2014 |
| 113 | <i>Nila – The Nile of Kerala</i> | Deccan Chronicle | 4 th July – 2014 |
| 114 | <i>Panoramic Panval Viaduct</i> | Deccan Chronicle | 18 th July – 2014 |
| 115 | <i>Backwater Tourism</i> | Kerala Calling Magazine | August – 2014 |
| 116 | <i>The Chinese connection</i> | Deccan Chronicle | 22 nd August – 2014 |
| 117 | <i>Backwaters campaign placed Kerala top on tourism map</i> | Pass line business Magazine | September – 2014 |
| 118 | <i>Tourism and community development</i> | Kerala Calling Magazine | September – 2014 |
| 119 | <i>PaithrikaSmarakangal (Heritage Monuments)</i> | MathrubhumiTozhilVartha (Harisree Supplement) | 06 th September – 2014 |
| 120 | <i>In the midst of Mahogany</i> | Deccan Chronicle | 10 th October – 2014 |
| 121 | <i>Kerala Travel Mart promoting Kerala Tourism</i> | Kerala Calling Magazine | October – 2014 |
| 122 | <i>Villages – Soul of Kerala Tourism</i> | Pass line business Magazine | November - 2014 |
| 123 | <i>India Heritage sites for global tourist</i> | Asian Traveller magazine | November - 2014 |
| 124 | <i>Kuttippuram - Horse shoe attraction</i> | Deccan Chronicle | 21 st November – 2014 |

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| 125 | <i>Kole gate is open</i> | Deccan Chronicle | 5 th December – 2014 |
| 126 | <i>Exploring Nila through Railways</i> | Kerala Calling Magazine | December– 2014 |
| 127 | <i>NilgiriTahr - An encounter with the endangered</i> | Deccan Chronicle | 19 th December – 2014 |
| 128 | <i>Monsoon Tourism – The Pioneering and Booming concept of Kerala Tourism</i> | Aureole – St. Stephens college Journal, Uzhavoor | December – 2014 |
| 129 | <i>Dhanushkodi - Ghost town calling</i> | Deccan Chronicle | 2 nd January – 2015 |
| 130 | <i>Bird's eye view of India</i> | Deccan Chronicle | 6 th February - 2015 |
| 131 | <i>UNESCO Unlocked</i> | Deccan Chronicle | 10 th April - 2015 |
| 132 | <i>MathiyakillaSabarmathi (Sabarmathi Ashram)</i> | Metro Manorama – Kochi Edition | 29 th April - 2015 |
| 133 | <i>Wonders of Bharathapuzha</i> | Deccan Chronicle | 8 th May - 2015 |
| 134 | <i>Khajuraho – No adjective seems adequate</i> | Deccan Chronicle | 29 th May- 2015 |
| 135 | <i>Aurangabad - City of gates and caves</i> | Deccan Chronicle | 19 th June- 2015 |
| 136 | <i>Indian Paithrikam (Indian Heritage)</i> | MathrubhumiTozhilVartha (Harisree Supplement) | 27 th June – 2015 |
| 137 | <i>NilatheeratheKazhakkal</i> | Koodu (Environment Magazine) | June - 2015 |
| 138 | <i>Heritage Day & Heritage Tourism</i> | Kerala Calling Magazine | June – 2015 |
| 139 | <i>Feel the rain by the window</i> | Deccan Chronicle | 3 rd July - 2015 |
| 140 | <i>Monsoon Magic</i> | Deccan Chronicle | 10 th July - 2015 |
| 141 | <i>How beautiful the rain is?</i> | Kerala Calling Magazine | July – 2015 |
| 142 | <i>Choolannur – Tired of resorts? Try Rural Tourism</i> | Deccan Chronicle | 7 th August - 2015 |
| 143 | <i>Konkan Railway – Garden Railway</i> | Deccan Chronicle | 21 st August - 2015 |
| 144 | <i>Taj of Deccan</i> | Mathrubhumi GK & Current Affairs | September - 2015 |
| 145 | <i>Koottakadavu - Banking on Beauty</i> | Deccan Chronicle | 4 th September - 2015 |
| 146 | <i>World Tourism Day - For Integration, Peace, Prosperity</i> | Kerala Calling Magazine | October – 2015 |
| 147 | <i>SancharaVismayangal</i> | MathrubhumiTozhilVartha (Harisree Supplement) | 3 rd October - 2015 |
| 148 | <i>MazhakalaVinodhangal</i> | Mathrubhumi GK & Current Affairs | October – 2015 |

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| 149 | <i>India on Top of World Tourism</i> | Aksharajwala Magazine | October - 2015 |
| 150 | <i>Nila River - Avian Attractions</i> | Deccan Chronicle | 30 th October - 2015 |
| 151 | <i>Visit Kerala 2015</i> | Aksharajwala Magazine | November - 2015 |
| 152 | <i>Mangroves of Malabar</i> | Deccan Chronicle | 13 th November - 2015 |
| 153 | <i>UNESCO Heritage Sites in India - Quiz</i> | Balarama Digest, MalayalaManorama Publications | 14 th November - 2015 |
| 154 | <i>Ponnani Beach – An all day entertainment</i> | Deccan Chronicle | 20 th November – 2015 |
| 155 | <i>SevagramAsramam</i> | Mathrubhumi G K & Current Affairs | December - 2015 |
| 156 | <i>Villages of Palakkad</i> | Yathralekha Magazine | December - 2015 |
| 157 | <i>In stock Surprises</i> | Kerala Calling | December - 2015 |
| 158 | <i>Asramam – Not just a maidan</i> | Deccan Chronicle | 18 th December - 2015 |
| 159 | <i>Konkan Railway</i> | Harisree, MathrubhumiTozhilVartha Supplement | 19 th December - 2015 |
| 160 | <i>A heavenly train journey</i> | Deccan Chronicle | 25 th December - 2015 |
| 161 | <i>Indian Tourism - Quiz</i> | Balarama Digest, MalayalaManorama Publications | 26 th December - 2015 |
| 162 | <i>Thrissur – The city of festivities</i> | Deccan Chronicle | 1 st January - 2016 |
| 163 | <i>February 2nd – World Wetlands Day</i> | Aksharajwala Magazine | January - 2016 |
| 164 | <i>The Winged Beauties of Nila</i> | Deccan Chronicle | 22 nd January - 2016 |
| 165 | <i>Mangrove Moorings of Chettuva</i> | Deccan Chronicle | 29 th January - 2016 |
| 166 | <i>Malabar's Herbal Treasure</i> | Deccan Chronicle | 5 th February 2016 |
| 167 | <i>Wetlands of India</i> | Harisree, MathrubhumiTozhilVartha Supplement | 6 th February 2016 |
| 168 | <i>SarvodayaMela – A Gandhian festival of unity</i> | Deccan Chronicle | 12 th February - 2016 |
| 169 | <i>Birding & Boating in Nila River</i> | Aksharajwala Magazine | February - 2016 |
| 170 | <i>Thootha – An enchanting bucolic scene</i> | Aksharajwala Magazine | 19 th February - 2016 |
| 171 | <i>Uthralikavu Sacred Grove & its Colorful Pooram</i> | Deccan Chronicle | 26 th February - 2016 |
| 172 | <i>Perumbavoor – The Heritage Hub</i> | Deccan Chronicle | 11 th March - 2016 |
| 173 | <i>Cricket & Tourism in India</i> | Aksharajwala Magazine | March - 2016 |
| 174 | <i>Eco – Tourism in India</i> | Harisree, | 19 th March 2016 |

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| | | MathrubhumiTozhilVartha Supplement | |
| 175 | <i>Biyyam – The Natural Beauty</i> | Deccan Chronicle | 25 th March - 2016 |
| 176 | <i>Pollachi – via Muthalamada</i> | Koodu Magazine | April - 2016 |
| 177 | <i>Kadalundi Estuary</i> | Deccan Chronicle | 1 st April 2016 |
| 178 | <i>Rail Travel to Beat the Heat</i> | Deccan Chronicle | 8 th April - 2016 |
| 179 | <i>Varikkassery Mana – Hub of Movie Shoots</i> | Deccan Chronicle | 22 nd April - 2016 |
| 180 | <i>Eco – Tourism Destinations in Kerala</i> | Balarama Digest, Malayala Manorama Publications | 23 rd April - 2016 |
| 181 | <i>Muthalamada - Village of Tasty Mangoes</i> | Deccan Chronicle | 29 th April - 2016 |
| 182 | <i>Boating Across Puzhakkal Padam</i> | Deccan Chronicle | 6 th May - 2016 |
| 183 | <i>Malayattoor – Kodanad Bridge Linking Divinity & Tourism</i> | Deccan Chronicle | 13 th May - 2016 |
| 184 | <i>Train journey to experience village beauty</i> | Aksharajwala Magazine | May- 2016 |
| 185 | <i>Serene Cruise through Vembanad Backwaters</i> | Deccan Chronicle | 20 th May - 2016 |
| 186 | <i>Muziri's Conserving Kerala's Heritage</i> | Deccan Chronicle | 27 th May - 2016 |
| 187 | <i>The lifeline of India</i> | Kerala Calling | May 2016 |
| 188 | <i>Padinjarekkara Beach Park - A sweet salty evening</i> | Deccan Chronicle | 3 rd June - 2016 |
| 189 | <i>Monsoon & Tourism in Kerala</i> | Aksharajwala Magazine | June – 2016 |
| 190 | <i>Palakkad – Pollachi Train Journey through experiencing Nature</i> | Yathralekha Magazine | June - 2016 |
| 191 | <i>Perumbavoor - Sunday Shopping</i> | Deccan Chronicle | 17 th June - 2016 |
| 192 | <i>Land Locked Fortress</i> | Deccan Chronicle | 24 th June - 2016 |
| 193 | <i>A Temple in the lap of Nature</i> | Deccan Chronicle | 8 th July – 2016 |
| 194 | <i>Kerala – Hub of Eco Tourism</i> | Kerala Calling | July - 2016 |
| 195 | <i>Monsoon ragas on the sand beds of Aluva</i> | Deccan Chronicle | 15 th July - 2016 |
| 196 | <i>A Spiritual Journey via Ramapuram</i> | Deccan Chronicle | 22 nd July 2016 |
| 197 | <i>Explore the Chaliyar</i> | Deccan Chronicle | 29 th July 2016 |

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| 198 | <i>Monsoon Magic on the Nila</i> | Deccan Chronicle | 5 th August 2016 |
| 199 | Rain scenes in God's own country | Deccan Chronicle | August 2016 |
| 200 | <i>Fall in love with Vellayani Lake</i> | Deccan Chronicle | 19 th August 2016 |

DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 2 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 2 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 5 |

Refereed Journal Publications: 2

2015: 2

1. K.Sabukuttan, Reta Melaku Feyisa (2015), Access and Contributions of Health Literacy towards Healthy Aging,” International Journal IJRSS, ISSN-2249-5894 Issue No.10 Vol 5.
2. K.Sabukuttan,Reta Melaku Feyisa (2015), Economic Participation of Rural Women in Rural Development:The Role of Non-Formal Education, International Journal IJRSS, ISSN 2249-2496 Volume 5,Issue 5.

Conference Proceedings: 2

1. K.Sabukuttan(2015), “Tyranny of Casteism in Kerala during the 19 and early 20 centuries”, proceedings of the UGC National Seminar on Caste Structure in Kerala and its changing trends, Dept.of History,Christian College,Chengannur.ISBN NO:978-93-5196-973-0
2. K.Sabukuttan (2015),“Environment Enrichment activities through National Service Scheme”., proceedings of the UGC sponsored National Seminar on “Sustainable Resource Management -Tools and techniques ,’ Department of Home Science, ST Teresa’s college Ernakulam. ISBN: 978-81-7255-066-9

Edited Books: 1

1. Dr.K.Sabukuttan (2016-edited),Extension: The Third Arm of Education,Author Press,New Delhi,2016, ISBN 978-93-5207-334-4

DEPARTMENT OF PRINTING AND PUBLISHING

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | Nil |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | 37 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 37 |

Edited Books: 37

| Sl No | Title of Books | Co-Publishing With |
|-------|---|------------------------|
| 1 | Understanding India : Reflections On Indian Polity | Macmillan Publishers |
| 2 | Sahithya Darpan | Mguccs |
| 3 | Vaakkum Drisyavum | Mguccs |
| 4 | Sahithya Manjusha | Mguccs |
| 5 | Ezhuthinte Vazhikal | Mguccs |
| 6 | Gadya Vithanam | Mguccs |
| 7 | Samskrithik Virasath | Mguccs |
| 8 | Viswa Bharathi | Mguccs |
| 9 | Evolution Of The Philosophy Of Science- Literary Perspectives | Ane Books |
| 10 | Executive Communication | Vikas Publishing House |
| 11 | Indian Ethos And Values | Vikas Publishing House |
| 12 | Statistics For Management | Vikas Publishing House |
| 13 | Environmental Management | Vikas Publishing House |
| 14 | Principles Of Management | Vikas Publishing House |

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| 15 | Financial Accounting | Vikas Publishing House |
| 16 | Economics For Business | Vikas Publishing House |
| 17 | Data Processing | Vikas Publishing House |
| 18 | Business Mathematics | Vikas Publishing House |
| 19 | Indian Legal System | Vikas Publishing House |
| 20 | E-Business | Vikas Publishing House |
| 21 | Cost And Management Accounting | Vikas Publishing House |
| 22 | Organisational Behaviour | Vikas Publishing House |
| 23 | Human Resource Management | Vikas Publishing House |
| 24 | Fundamentals Of Marketing | Vikas Publishing House |
| 25 | Management Information System | Vikas Publishing House |
| 26 | Production Management | Vikas Publishing House |
| 27 | Operations Research | Vikas Publishing House |
| 28 | Financial Management | Vikas Publishing House |
| 29 | Research Methodology | Vikas Publishing House |
| 30 | Organisational Study | Vikas Publishing House |
| 31 | Project Management | Vikas Publishing House |
| 32 | Strategic Management | Vikas Publishing House |
| 33 | Eppadi Padinaro | Spcs |
| 34 | Vasthu Vidya- Thathwavum Charithravum | Vasthu Vidhya Gurukulam |
| 35 | Vasthu Vidya - Samootha Vinyasam | Vasthu Vidhya Gurukulam |
| 36 | Vasthu Vidya - Prasnavum Prathividhiyum | Vasthu Vidhya Gurukulam |
| 37 | Vadakkan Pattu Kathakal | DC Books |

**Publication details of
International & Inter University Centre, Inter
University Centres and
Inter School Centres**

INTERNATIONAL AND INTERUNIVERSITY CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 269 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 23 |
| 4. | Chapters in Books | 43 |
| 5. | Edited Books | 52 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 418 |

Refereed Journal Publications: 269

2016: 55

1. Angulakshmi, N., Kar, G. P., Bose, S., Gowd, E. B., Thomas, S., & Stephan, A. M. (2016). A high-performance BaTiO₃-grafted-GO-laden poly (ethylene oxide)-based membrane as an electrolyte for all-solid lithium-batteries. *Materials Chemistry Frontiers*. DOI: 10.1039/C6QM00098C.
2. Chandran, C. S., Czajka, M., Chan, C. H., Shanks, R. A., & Thomas, S. (2016). Interfacial interactions of thermally reduced graphene in poly (trimethylene terephthalate)-epoxy resin based composites. *Polymer*.
3. Oluwafemi, O. S., Thomas, S., & Kalarikkal, N. Dynamic energy transfer in non-covalently functionalized reduced graphene oxide/silver nanoparticle hybrid (NF-RGO/Ag) with NF-RGO as the donor material *Journal of Materials Science: Materials in Electronics*, 1-9.
4. Puliyalil, H., Filipič, G., Kovač, J., Mozetič, M., Thomas, S., & Cvelbar, U. (2016). Tackling chemical etching and its mechanisms of polyphenolic composites in various reactive low temperature plasmas *RSC Advances*, 6(97), 95120-95128.
5. Roy, P. P., Kumar, S. S., Archana, R., Mishra, S., Amin, A., Thomas, S., Reddy, U. K., & Rajan, S. Om Namah Shivaya Chanting for Management of Stress in Elderly Women with Hypertension (2016) *IJPSR*, 7(11): 1000-04.

6. Thankachan, R. M., Joy, N., Abraham, J., Kalarikkal, N., Thomas, S., & Oluwafemi, O. S. (2017). Enhanced photocatalytic performance of ZnO nanostructures produced via a quick microwave assisted route for the degradation of rhodamine in aqueous solution. *Materials Research Bulletin*, 85, 131-139.
7. Bhingardive, V., Woldu, T., Biswas, S., Kar, G. P., Thomas, S., Kalarikkal, N., & Bose, S. (2016). Microwave Absorption in MWNTs-Based Soft Composites Containing Nanocrystalline Particles as Magnetic Core and Intrinsically Conducting Polymer as a Conductive Layer. *Chemistry Select*, 1(15), 4747-4752.
8. Pal, K., Mohan, M. M., & Thomas, S. (2016). Dynamic application of novel electro-optic switchable device modulation by graphene oxide dispersed liquid crystal cell assembling CdS nanowires. *Organic Electronics*, 39, 25-37.
9. Elias, E., Zachariah, A. K., Kumar, V., Sunil, M. A., Bose, S., Souza, F. G., & Thomas, S. (2016). Percolated network formation in biocidal 3D porous PCL/clay nanocomposite scaffolds: effect of organic modifier on interfacial and water sorption properties. *RSC Advances*, 6(88), 85107-85116.
10. Beena Unni, A., G. Vignaud, J. K. Bal, N. Delorme, T. Beuvier, S. Thomas, Y. Grohens, and A. Gibaud. (2016). Solvent Assisted Rinsing: Stability/Instability of Ultrathin Polymer Residual Layer. *Macromolecules*, 49(5)1807-1815.
11. Jose, J. P., Abraham, J., Maria, H. J., Varughese, K. T., & Thomas, S. (2016). Contact Angle Studies in XLPE Hybrid Nanocomposites with Inorganic Nanofillers. *Macromolecular Symposia*, 366(1), 66-78.
12. Sunny, A. T., Adhikari, R., Mathew, S., & Thomas, S. (2016). Copper oxide nanoparticles in an epoxy network: microstructure, chain confinement and mechanical behaviour. *Physical Chemistry Chemical Physics*, 18(29), 19655-19667.
13. Abraham, J., Muraleedharan, K., Radhesh Kumar, C., Thomas, S., & George, S. C. (2016). Solvent Transport Characteristics of Thermoplastic Elastomer Blends Based on Nylon and NBR. *Polymer Engineering & Science*. DOI 10.1002/pen.24409
14. Ghosal, K., Thomas, S., Kalarikkal, N., & Gnanamani, A. Electrospinning of polycaprolactone (PCL) with collagen coating from environmentally benign solvent: Preliminary physico-chemical studies for skin substitute.
15. Rane, A. V., Kanny, K., Vayyaprontavida Kaliyathan, A., Joshi, S., & Thomas, S. (2016). Mechanical properties of polyphenylene oxide/talc composites with and without coupling agent. *Materials Research Innovations*, 1-6.
16. Abitha, V. K., Rane, A. V., Kanny, K., & Thomas, S. (2016). Studies on Dynamic Ageing Conditions for Life Cycle Prediction of Tyre Tread. *J. Mater. Environ. Sci.*, 7(8) 2679-2688.
17. Puliyalil, H., Recek, N., Filipič, G., Čekada, M., Jerman, I., Mozetič, M. & Cvelbar, U. (2016). Mechanisms of hydrophobization of polymeric composites etched in CF₄ plasma. *Surface and Interface Analysis*.

18. Beeran, Y., Bobnar, V., Gorgieva, S., Grohens, Y., Finšgar, M., Thomas, S., & Kokol, V. (2016). Correction: Mechanically strong, flexible and thermally stable graphene oxide/nanocellulosic films with enhanced dielectric properties. *RSC Advances*, 6(62), 57473-57474.
19. Augustine, R., Abraham, A. R., Kalarikkal, N., & Thomas, S. (2016). Monitoring and separation of food-borne pathogens using magnetic nanoparticles Novel Approaches of Nanotechnology in Food, 1, 271-312.
20. Ponnammma, D., Saiter, A., Saiter, J. M., Thomas, S., Grohens, Y., AlMaadeed, M. A. A., & Sadasivuni, K. K. (2016). Influence of temperature on the confinement effects of micro and nano level graphite filled poly (isoprene-co-isobutylene) composites. *Journal of Polymer Research*, 23(7), 1-8.
21. Babu, S. S., Augustine, A., Kalarikkal, N., & Thomas, S. (2016). Nylon 6, 12/Cloisite 30B Electrospun Nanocomposites for Dental Applications. *Journal of Siberian Federal University. Biology*, 9(2), 198.
22. Koenig, M., Bittrich, E., König, U., Rajeev, B. L., Müller, M., Eichhorn, K. J., & Uhlmann, P. (2016). Adsorption of enzymes to stimuli-responsive polymer brushes: Influence of brush conformation on adsorbed amount and biocatalytic activity. *Colloids and Surfaces B: Biointerfaces*, 146, 737-745.
23. Oluwafemi, O. S., Sreekanth, P., Philip, R., Thomas, S., & Kalarikkal, N. (2016). Improved nonlinear optical and optical limiting properties in non-covalent functionalized reduced graphene oxide/silver nanoparticle (NF-RGO/Ag-NPs) hybrid. *Optical Materials*, 58, 476-483.
24. Karthika, S., Reshma, M. J., Wilson, P. A., Das, R. A., Sarma, U. S., Harikrishnan, K., & Thomas, S. (2016). Characterization and Evaluation of Phenol Degrading *Bacillus* Spp. for Enhancing the Softness of Coir Fiber. *Journal of Natural Fibers*, 13(3), 253-260.
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5. International Conference on Nanostructured Polymeric Materials (ICNPM 2015) : 13-15 November, 2015
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ADVANCED CENTRE FOR ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 61 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 196 |
| 4. | Chapters in Books | 3 |
| 5. | Edited Books | 13 |
| 6. | Books authored with ISBN | 8 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 281 |

Refereed Journal Publications: 61

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Conference Proceedings: 196

International Conference papers

1. P.R. Manoj, Usha K. Aravind, C.T. Aravindakumar. Impact of inorganic ions on the sonochemical degradation of triphenylmethane dyes. International conference on water, from pollution to purification, ICW, Kottayam, India, , December 12-15, 2016.
2. Jain maria Thomas, Vishnu N.R., C.T. aravindakumar, Usha K. Aravind. Polyelectrolyte functional bilayers for the removal of model emerging contaminants. International conference on water, from pollution to purification, ICW, Kottayam, India, , December 12-15, 2016.
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2. A.P.Thomas(Ed.), Thomas, S., Kurian, P. K., Abraham, N. P., and Joseph, G. K. Biodiversity: Scope and Challenges. GreenLeaf Publications, Kottayam. 2016.
3. A.P.Thomas(Ed.), Kurian, P. K., and Samuel K., A. A Handbook on Biodiversity Studies. GreenLeaf Publications, Kottayam. 2016.
4. A.P.Thomas(Ed.), Mathew, I., George, S. M., and Thomas, B. J. General Informatics and Methodologies in PlantSciences. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-1-6. 2016.
5. A.P.Thomas(Ed.), Samuel, J. M., Chacko, L., Samuel K., A., and Kurian, P. K. Cell and Molecular Biology: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-4-7. 2016.
6. A.P.Thomas(Ed.), Abraham, G. K., Jose, A., Thomas J., and Kuruvila, M. E. Evolution, Zoogeography and Ethology: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-6-1. 2016.
7. A.P.Thomas(Ed.), George, A.V. Thomas, S., Kurian, P. K., Abraham, N. P., and Joseph. G. K. Environmental biology, Toxicology and Disaster Management. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-3-0. 2016.
8. A.P.Thomas(Ed.), Gopakumar M., Kurian, P. K. , Jose, A., and Samuel K., A. Public Health, Nutrition and human Genetics: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-7-8. 2016.
9. A.P.Thomas(Ed.), Mathew S. Benny K.J., Girijakumari S., and Varghese, A. M. Reproductive and Developmental Biology. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-9-2. 2016.
10. A.P.Thomas(Ed.), Samuel, Johnson M., Samuel K., A., Reethamma O.V., Sebastian K.S. and Mathew, J. Genetics & Biotechnology: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-4-7. 2016.
11. A.P.Thomas(Ed.), Samuel K., A., Jacob, C., Elizabeth, M. J., Benny, K. J. and Oommen, M. Biochemistry, Human Physiology & Endocrinology. GreenLeaf Publications, Kottayam. 2016.
12. A.P.Thomas(Ed.), Abraham, G. K., Kurian, P. K., Abraham, N. P., and Samuel K., A., The Invertebrates: Diversity and Adaptations. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-5-4. 2011.
13. A.P.Thomas(Ed.), Abraham, G. K., Kurian, P. K., Abraham, N. P., and Samuel K., A., The Chordates: Diversity and Adaptations. GreenLeaf Publications, Kottayam. 2010.

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1. A.P.Thomas, Mathew, I., George, S. M., and Thomas, B. J. General Informatics and Methodologies in PlantSciences. Green Leaf Publications, Kottayam. ISBN No. 978-81-920269-1-6. 2016.

2. A.P.Thomas, Samuel, J. M., Chacko, L., Samuel K., A., and Kurian, P. K. Cell and Molecular Biology: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-4-7. 2016.
3. A.P.Thomas, Abraham, G. K., Jose, A., Thomas J., and Kuruvila, M. E. Evolution, Zoogeography and Ethology: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-6-1. 2016.
4. A.P.Thomas, George, A.V. Thomas, S., Kurian, P. K., Abraham, N. P., and Joseph. G. K. Environmental biology, Toxicology and Disaster Management. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-3-0. 2016.
5. A.P.Thomas, Gopakumar M., Kurian, P. K. , Jose, A., and Samuel K., A. Public Health, Nutrition and human Genetics: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-7-8. 2016.
6. A.P.Thomas, Mathew S. Benny K.J., Girijakumari S., and Varghese, A. M. Reproductive and Developmental Biology. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-9-2. 2016.
7. A.P.Thomas, Samuel, Johnson M., Samuel K., A., Reethamma O.V., Sebastian K.S. and Mathew, J. Genetics & Biotechnology: The Fundamentals. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-4-7. 2016.
8. A.P.Thomas, Abraham, G. K., Kurian, P. K., Abraham, N. P., and Samuel K., A., The Invertebrates: Diversity and Adaptations. GreenLeaf Publications, Kottayam. ISBN No. 978-81-920269-5-4. 2011.

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3.4.2 Details of publications by the faculty:

| Sl. No | Publications | Total |
|--------|-----------------------------------|-----------|
| 1. | Refereed Journal Publications | 77 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 4 |
| 5. | Edited Books | Nil |
| 6. | Edited special issues of journals | 4 |
| 7. | Books authored with ISBN | Nil |
| 8. | Books authored without ISBN | Nil |
| 9. | Articles in popular publications | Nil |
| 10. | Patents granted | 1 |
| 11. | Patents filed | 2 |
| | Total | 88 |

Refereed Journal Publications: 77

1. Nthenge-Ngumbau DN, Mohanakumar KP. Can Cyclic Nucleotide Phosphodiesterase Inhibitors Be Drugs for Parkinson's Disease? Mol Neurobiol (2017; In Press)
2. Dutta D, Ali N, Banerjee E, Singh R, Naskar A, Paidi RK and Mohanakumar KP. Low levels of prohibitin in substantia nigra makes dopaminergic neurons vulnerable in Parkinson's disease. Mol Neurobiol (2017; In Press).
3. Kalathottukaren MT, Abraham L, Kapopara PK, Lai BFL, Sheno RA, Rosell FI, Conway EM, Pryzdial ELG, Morissey JH, Haynes CA and Kizhakkedathu JN. Alteration of blood clotting and lung damage by protamine are avoided using the heparin and polyphosphate inhibitor, UHRA. Blood (2017; In Press) (IF: 11.841).
4. Saha T, Chatterjee M, Sinha S, Rajamma U, Mukhopadhyay K. (2017) Components of the folate metabolic pathway and ADHD core traits: an exploration in eastern Indian probands. J Hum Genet. doi: 10.1038/jhg.2017.23. [Epub ahead of print]
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6. Sengupta T, Vinayagam J, Singh R, Jaisankar P, Mohanakumar KP. Plant-Derived Natural Products for Parkinson's Disease Therapy. Adv Neurobiol 12:415-496, 2016.

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10. Chakrabarti S, Mohanakumar KP. Aging and neurodegeneration: A tangle of models and mechanisms. *Aging Dis* 7: 111-113, 2016.
11. Williams RJ, Mohanakumar KP, Beart PM. Neuro-nutraceuticals: Further insights into their promise for brain health. *Neurochem Int* 95: 1-3, 2016.
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13. Sheno RA, Abbina S and Kizhakkedathu JN. In vivo biological evaluation of high molecular weight multifunctional acid-degradable polymeric drug carriers with structurally different ketals. *Biomacromolecules* 17, 3683-3693, 2016.(I F: 5.583).
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Edited Special Issues Of Journals: 4

1. Sasanka Chakrabarti, Kochupurackal P. Mohanakumar. Special Issue: Aging and Neurodegeneration: A Tangle of Models and Mechanisms. Aging and Disease, Volume 7 (Issue 2), Pages 111-235, June 2016.
2. Robert J. Williams, Kochupurackal P. Mohanakumar, Philip M. Beart. Special Issue: Neuro-Nutraceuticals: Further Insights into their Promise for Brain Health. Neurochemistry International, Volume 95, Pages, 1-118, May 2016.
3. Robert J. Williams, Kochupurackal P. Mohanakumar, Philip M. Beart. Special Issue: Nutraceuticals: Molecular and Functional Insights into how Natural Products Nourish the Brain. Neurochemistry International, Volume 89, Pages 1-280, October 2015.
5. Priya Srinivas, David Wink, Kochupurackal P Mohanakumar and M Radhakrishna Pillai. The Legacy of Nitric oxide: Impact on Disease Biology Nitric Oxide: Biology and Chemistry. Volume 43, Pages 1-112, December 2014.

Patents Granted: 1

1. Kizhakkedathu JN, **Shenoi RA**, Carter CJ and Brooks DE. Polymers for reversing heparin based anticoagulation. **US Patents 20120308546** (December 6, 2012), **8519189** (August 27, 2013), **8637008** (January 28, 2014), **9095666** (August 4, 2015).

Patents Filed: 2

1. Brooks D, Kizhakkedathu J, **Shenoi R**, Weinhart M, Haag R, Groeger D. Anionic linear polyglycerol derivatives, a method for manufacturing and applications. **PCT Application WO 2016116489**. (Date of filing: January 20, 2016)
2. Khan MK, Kizhakkedathu JN, Misri R, **Shenoi RA**, Wong NKY and Brooks DE. Hydrophobically derivatized hyperbranched polyglycerol for intravascular drug delivery. **PCT Application WO 2016000070** (Date of filing: June 26, 2015)

INTER UNIVERSITY CENTRE FOR DISABILITY STUDIES

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 14 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 11 |
| 4. | Chapters in Books | 02 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 27 |

3.4.2 Details of publications by the faculty

Refereed Journal Publications: 14

1. The value of Mahatma Gandhi in developing soft skills among school children
Compendium of papers published by Dr. N. Pillai Centennial Celebration Committee,
Thiruvananthapuram. Hena N.N, July 2011, ISBN: 978-81-923093-2-3
2. Enhancing eye-hand coordination among students with dysgraphia Proceedings of
UGC sponsored national seminar on Learning disabilities Hena N.N, Dr.Anilakumari
M.C June 2013, ISBN : 978-81-927201-1-1
3. Naturalistic intelligence and altruistic behavior among children Proceedings of UGC
sponsored national seminar on naturalistic intelligence-harmonizing scientific eco-
friendliness in learners. Hena N.N, July 2012, ISBN: 978-81-92440-0-7
4. Rehabilitation programmes for subjective well being and gender equality among
women prisoners, Proceedings of International Seminar on Applied Psychology in
Transforming Educational and Management Science in the Context of Globalization,
Hena N.N, June, 2012. ISBN: 978-81-92440-0-7
5. Effectiveness of video assisted reminiscence therapy on subjective well being of
institutionalized elderly IOSR journal of Nursing and Health Sciences Hena N.N
August 2015 ISSN:
6. Effect of Drama on Learning Social Skills among Children with Mild Intellectual
Disability, Journal of Disability Management and Special Education (India) First
Author July 2011., Vol.1(2), p 61-70 Refereed ISSN 2229-5143 National

7. Gandhian Educational Principles and Practices for the Emerging Global Scenario, Compendium of papers published by Dr. N. Pillai Centennial Celebration Committee, Thiruvananthapuram. Sole Author ISBN: 978-81-923093-2-3, Seminar Compendium
8. Effect of Games on Developing Ability to Follow Instructions among Primary Level Children with Moderate Mental Retardation CONFLUX, Journal of Education First Author June, 2013, Vol. 1(1),187-194. Refereed ISSN 2320-9305 International
9. Effect of Role Play on Developing Communication Skills of Children with Moderate Mental Retardation, COGNITIVE DISCOURSES Sole Author July 2013, Vol (1), 1, 41-46. Referee, ISSN 2321-1075 International
10. Parent's Attitude Towards the Inclusion of Their Children with Autism in Mainstream Classroom, CONFLUX, Journal of Education Co-author June, 2013, Vol. 1(2),13-18 Refereed, ISSN 2320-9305 International
11. Construction of Semantic Skills Assessment Test for the Children with Mental Retardation, CONFLUX, Journal of Education First author June, 2013, Vol. 1(4), 2-5 Refereed , ISSN 2320-9305 International
12. Problems faced by Children with Sensory and Motor Disabilities in Inclusive Classroom, Innovations, Quality and Excellence in Education First author ISBN 978-81-926319-2-9 Seminar Compendium
13. Effect of Drama Practice for the Enhancement of Pragmatic Skill among Children with Mild Mental Retardation Journal of Disability Management and Special, Education (JODMSE) First author January 2014 Volume 4(1), 8-15 Refereed ISSN 2229-5143 National
14. Awareness of Special Educators on Deaf-blindness Innovative Thoughts-International Research Journal First author February 2014 Volume 1(4) Refereed pISSN 2321-5453 eISSN 2347-5722 International

Conferences Proceedings : 11

1. An Analysis of Enrolment Of Children with Various Disabilities under SSA Implementing by Ramakrishna Mission Vidyalaya National Seminar on Inclusive Education for Children with Mental Retardation- An Introspection Ramakrishna Mission Vivekananda University, FDMSE, Coimbatore, TN, India 25 -27th February, 2011.
2. Effect of Games on Developing Ability to Follow Instructions among Primary Level Children with Moderate Mental Retardation. National Seminar on Role of Music and Sports in Education and Mental Health of Children Faculty of Education, BHU, Varanasi, UP, India 11 -12th February, 2012.
3. Effect of Role Play on Developing Communication Skills of Children with Moderate Mental Retardation
4. International Seminar on Applied Psychology in Transforming Educational and Management Science in the Context of Globalization Toc H Institute of Science and Technology, Ernakulam, Kerala, India 15 -17th June, 2012.
5. Relevance of Gandhian Principles in Inclusive Education International Seminar on Gandhian Principles and Practices in the Emerging Global Scenario Dr. N.P. Pillai

- Centennial Celebration Committee and Dr. K. Sivadasan Pillai Foundation, Thiruvananthapuram, Kerala, India 25-27th July, 2012.
6. Analysis of Teaching Learning Materials Available in Anganvadi Centres to Carry Early Intervention Programme for Children with Hearing Impairment. International seminar on Emerging Trends in Disability Studies and Management. Inter University Centre for Disability Studies, Mahatma Gandhi University, Kottayam 8th January 2013
 7. Problem Faced by Children with Sensory and Motor Disabilities in Inclusive Classroom International seminar on Innovations, Quality and Excellence in Education Council for Teacher Education- Kerala State Centre and Fathima Memorial Training College, Kollam, Kerala. 11-12th January 2013
 8. Parents Attitude Towards the Inclusion of Their Children with Autism in mainstream Classrooms., National Conference on Autism Spectrum Disorder: Blooming Beyond Horizon. National Institute for Empowerment of Person with Multiple Disabilities (NIEPMD), Chennai, 14-16th March 2013
 9. A Comparative Study on the Achievement in Independent Living Skills among Adults with Mental Retardation Studying in Residential and Day-care Setting, National Seminar on Mental Retardation-Empowering Professionals for Better Service, Nirmala Sadan Training College for Special Education, Muvattupuzha Kerala, 20th & 21st May 2013
 10. Awareness of Special Teachers on Sexual Behaviour Problems' Management in Children with Mental Retardation National Seminar on Mental Retardation-Empowering Professionals for Better Service Nirmala Sadan Training College for Special Education, Muvattupuzha Kerala, 20th & 21st May 2013
 11. Youth with Intellectual Disability: Real Challenge for Social Development National Conference on Youth- A Catalyst for Social Transformation Litter Flower Institute of Social Sciences and Health (LISSAH), Kozhikode, Kerala 4th & 5th October 2013

Chapters Contributed In Edited Books: 2

1. Interpersonal relationships and Communication Managing soft skills for personality development Hena N.N Tata McGraw Hill Education Private Limited, New Delhi 2012 Refereed ISBN(13): 978-0-07-107813-9, ISBN(10) : 0-07-107813-4
2. Auditory Perception of Music and Development of Speech in Children with Hearing Impairment Music, Sports, Education and Mahamana's Vision Co-author New Delhi Publishers 2012 ISBN: 978-93-81274-18-7

INTER UNIVERSITY INSTRUMENTATION CENTRE

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|------------|
| 1. | Refereed Journal Publications | 307 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 307 |

Refereed Journal Publications: 307

2016 : 52

1. Asha, S., Thomas, A. M., Ujwaldev, S. M., & Anilkumar, G. (2016). A Novel Protocol for the CuCatalyzed Sonogashira Coupling Reaction between Aryl Halides and Terminal Alkynes using trans-1, 2-Diaminocyclohexane Ligand. Chemistry Select, 1(13), 3938-3941.
2. Thankachan A. P., Sindhu K.S., Krishnan, K. K, Anilkumar, G, (2016), Synthesis of diaryl and arylalkyl sulfides via zinc-catalyzed thioetherification reactions, Chemistry Select, (Accepted)
3. Sindhu, K. S., Thankachan, A. P., Thomas, A. M., & Anilkumar, G. (2016). Iron-Catalyzed Sonogashira Type Cross-Coupling Reaction of Aryl Iodides with Terminal Alkynes in Water under Aerobic Conditions. ChemistrySelect, 1(3), 556-559.
4. Yaragalla S., Anilkumar G., Kalarickal N., Thomas S, (2016), Structural and optical properties of functionalized multi- carbon nanotubes, Mater. Science Semiconduct Processing, 41, 49.
5. Krishnan, K. K., Thomas, A. M., Sindhu, K. S., & Anilkumar, G. (2016). Recent advances and perspectives in the manganese-catalysed epoxidation reactions. Tetrahedron, 72(1), 1-16.
6. Aippunny, A. M. K., Shamsudeen, S. M., Valparambil, P., Mathew, S., & Vishwambharan, U. N. (2016). Freestanding Ag₂S/CuS PVA films with improved dielectric properties for organic electronics. Journal of Applied Polymer

- Science, 133(25).
7. Sajna, M. S., Thomas, S., Jayakrishnan, C., Joseph, C., Biju, P. R., & Unnikrishnan, N. V. (2016). NIR emission studies and dielectric properties of Er ³⁺-doped multicomponent tellurite glasses. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 161, 130-137.
 8. Vinodkumar, R., Sajna, M. S., Prakashan, V. P., & Unnikrishnan, N. V. (2016). Spectroscopic investigations of RF sputtered Dy: ZnO as a conductive thin film nanophosphor. *Journal of Materials Science: Materials in Electronics*, 1-8.
 9. Thomas, V., Sofin, R. G. S., Allen, M., Thomas, H., Biju, P. R., Jose, G., & Unnikrishnan, N. V. (2017). Optical analysis of samarium doped sodium bismuth silicate glass. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 171, 144-148.
 10. Vineeshkumar, T. V., Raj, D. R., Prasanth, S., Sankar, P., Unnikrishnan, N. V., Pillai, V. M., & Sudarsanakumar, C. (2016). Composition dependent structural, Raman and nonlinear optical properties of PVA capped Zn _{1-x} Cd _x Cu _y S quantum dots. *Optical Materials*, 58, 128-135.
 11. Kamal P Mani, Vimal G, Biju P. R., Unnikrishnan N. V., Ittyachen M. A., Cyriac Joseph, (2016), Spectroscopic and phonon side band analysis of Tb_{2-x}Eu_x(MuoO₄)₃, *Journal of Molecular Structure*, 1105, 279-285.
 12. Vidyadharan, V., Gopi, S., Remya, M. P., Thomas, V., Joseph, C., Unnikrishnan, N. V., & Biju, P. R. (2016). Judd–Ofelt analysis of Pr ³⁺ ions in Sr _{1.5} Ca _{0.5} SiO ₄ and Sr _{0.5} Ca _{0.5} TiO ₃ host matrices. *Optical Materials*, 51, 62-69.
 13. Viji Vidyadharan, Remya Mohan P, Cyriac Joseph, Unnikrishnan, N. V. Biju P. R., (2016), Luminescent characteristics of UV excited Sr_{0.5}Ca_{0.5} TiO₃:Pr³⁺ reddish-Orange Phosphor. *Material Chemistry and Physics*, 170, 38-43.
 14. Mol, B., Joy, L. K., Thomas, H., Thomas, V., Joseph, C., Narayanan, T. N., & Anantharaman, M. R. (2016). Evidence for enhanced optical properties through plasmon resonance energy transfer in silver silica nanocomposites. *Nanotechnology*, 27(8), 085701.
 15. Minu Mary C, Vimal G, Kamal P. Mani, Gijo Jose, Biju P.R., Cyriac Joseph, Unnikrishnan N.V., Ittyachen M.A, (2016), “Growth and characterization of Sm³⁺-doped cerium oxalate single crystals”, *Journal of Materials Research and Technology*, (in press).
 16. Rayaroth, M. P., Aravind, U. K., & Aravindakumar, C. T. (2016). Degradation of pharmaceuticals by ultrasound-based advanced oxidation process. *Environmental Chemistry Letters*, 14(3), 259-290.
 17. Rayaroth, M. P., Aravind, U. K., & Aravindakumar, C. T. (2016). Ultrasound based AOP for emerging pollutants: from degradation to mechanism. *Environmental Science and Pollution Research*, 1-9.
 18. Menachery, S. P. M., Nair, S. R., Nair, P. G., Aravind, U. K., & Aravindakumar, C. T. (2016). Transformation Reactions of Radicals from the Oxidation of Diphenhydramine: Pulse Radiolysis and Mass Spectrometric Studies. *ChemistrySelect*, 1(5), 924-933.
 19. Mathew, J., Gopalakrishnan, A., Aravindakumar, C. T., & Aravind, U. K. (2016). Transport properties and morphology of CHI/PSS multilayered microfiltration

- membranes for the low pressure filtration of amino acids. *Journal of Chemical Technology and Biotechnology*.
20. Prasanth, S., Raj, D. R., Vineeshkumar, T. V., Thomas, R. K., & Sudarsanakumar, C. (2016). Exploring the interaction of L-cysteine capped CuS nanoparticles with bovine serum albumin (BSA): a spectroscopic study. *RSC Advances*, 6(63), 58288-58295.
 21. Bose, R. J., Kavitha, V. S., Sudarsanakumar, C., & Pillai, V. M. (2016). Phase modification and surface plasmon resonance of Au/WO₃ system. *Applied Surface Science*, 379, 505-515.
 22. Vineeshkumar, T. V., Raj, D. R., Prasanth, S., Sankar, P., Unnikrishnan, N. V., Pillai, V. M., & Sudarsanakumar, C. (2016). Composition dependent structural, Raman and nonlinear optical properties of PVA capped Zn_{1-xy}Cd_xCu_yS quantum dots. *Optical Materials*, 58, 128-135.
 23. Raj, D. R., Prasanth, S., Vineeshkumar, T. V., & Sudarsanakumar, C. (2016). Surface Plasmon Resonance based fiber optic sensor for mercury detection using gold nanoparticles PVA hybrid. *Optics Communications*, 367, 102-107.
 24. Raj, D. R., Prasanth, S., Vineeshkumar, T. V., & Sudarsanakumar, C. (2016). Surface plasmon resonance based fiber optic dopamine sensor using green synthesized silver nanoparticles. *Sensors and Actuators B: Chemical*, 224, 600-606.
 25. Aparna, P., Varughese, M., Varghese, M. K., Haris, P., & Sudarsanakumar, C. (2016). Conformational features of benzo-homologated yDNA duplexes by molecular dynamics simulation. *Biopolymers*, 105(2), 55-64.
 26. Jayanarayanan, K., Thomas, S., & Joseph, K. (2016). Effect of blend ratio on the dynamic mechanical and thermal degradation behavior of polymer–polymer composites from low density polyethylene and polyethylene terephthalate. *Iranian Polymer Journal*, 25(4), 373-384.
 27. George, S. C., Rajan, R., Aprem, A. S., Thomas, S., & Kim, S. S. (2016). The fabrication and properties of natural rubber-clay nanocomposites. *Polymer Testing*, 51, 165-173.
 28. Ghosal, K., Manakhov, A., Zajíčková, L., & Thomas, S. (2016). Structural and Surface Compatibility Study of Modified Electrospun Poly (ϵ -caprolactone)(PCL) Composites for Skin Tissue Engineering. *AAPS PharmSciTech*, 1-10.
 29. Beeran, Y., Bobnar, V., Gorgieva, S., Grohens, Y., Finšgar, M., Thomas, S., & Kokol, V. (2016). Mechanically strong, flexible and thermally stable graphene oxide/nanocellulosic films with enhanced dielectric properties. *RSC Advances*, 6(54), 49138-49149.
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 31. Abraham, J., M. Arif, Kailas, L., Kalarikkal, N., George, S. C., & Thomas, S. (2016). Developing highly conducting and mechanically durable styrene butadiene rubber composites with tailored microstructural properties by a green approach using ionic liquid modified MWCNTs. *RSC Advances*, 6(39), 32493-32504.
 32. Jlassi, Khoulood, Sarath Chandran Chandrasekhara Kurup, Mohammed Arif

- Poothanari, Mémia Benna-Zayani, Sabu Thomas, & Mohamed M. Chehimi, Clay/polyaniline hybrid through diazonium chemistry: conductive nanofiller with unusual effects on interfacial properties of epoxy nanocomposites. *Langmuir* (2016).
33. Elias, E., Chandran, N., Souza, F. G., & Thomas, S. (2016). Segmental dynamics, morphology and thermomechanical properties of electrospun poly (ϵ -caprolactone) nanofibers in the presence of an interacting filler. *RSC Advances*, 6(26), 21376-21386.
 34. Mohan, S., Oluwafemi, O. S., Songca, S. P., Rouxel, D., Miska, P., Lewu, F. B., ... & Thomas, S. (2016). Completely green synthesis of silver nanoparticle decorated MWCNT and its antibacterial and catalytic properties. *Pure and Applied Chemistry*, 88(1-2), 71-81.
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 39. Thankappan, Aparna, Nampoori V. P. N., & Sabu Thomas (2016), Investigations of intensity dependant nonlinear optical properties of betanin/ZnO composites embedded in PVA, *Optics & Laser Technology*, 83, 28-34.
 40. Jayanarayanan Karingamanna, Sabu Thomas, and Kuruvilla Joseph, (2016), Effect of blend ratio on the dynamic mechanical and thermal degradation behavior of polymer–polymer composites from low density polyethylene and polyethylene terephthalate, *Iranian Polymer Journal*, 1-12.
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 43. Mohan Sneha, Oluwatobi S. Oluwafemi, Sandile P. Songca, Jayachandran V. P., Didier Rouxel, Olivier Joubert, Nandakumar Kalarikkal, and Sabu Thomas, (2016), Synthesis, antibacterial, cytotoxicity and sensing properties of starch-capped silver nanoparticles *Journal of Molecular Liquids* 213, 75-81.
 44. Rehana P. Ummer, Raneesh B., Camille Thevenot, Didier Rouxel, Sabu Thomas, and Nandakumar Kalarikkal, (2016), Electric, magnetic, piezoelectric and magnetoelectric

- studies of phase pure (BiFeO₃-NaNbO₃)-(P (VDF-TrFE)) nanocomposite films prepared by spin coating " RSC Advances 6, 33, 28069-28080.
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 46. Yaragalla, S., Anilkumar, G., Kalarikkal, N., & Thomas, S., (2016), Structural and optical properties of functionalized multi-walled carbon nanotubes, *Materials Science in Semiconductor Processing*, 41, 491-496.
 47. Augustine, R., Kalarikkal, N., & Thomas, S., (2016), Effect of zinc oxide nanoparticles on the in vitro degradation of electrospun polycaprolactone membranes in simulated body fluid, *International Journal of Polymeric Materials and Polymeric Biomaterials*, 65(1), 28-37.
 48. Saha, Prosenjit, Sukanya Chowdhury, Debasis Roy, Basudam Adhikari, Jin Kuk Kim, and Sabu Thomas, (2016), A brief review on the chemical modifications of lignocellulosic fibers for durable engineering composites., *Polymer Bulletin* 73, 2, 587-620.
 49. Deepa, B., Abraham, E., Pothan, L. A., Cordeiro, N., Faria, M., & Thomas, S., (2016), Biodegradable Nanocomposite Films Based on Sodium Alginate and Cellulose Nanofibrils, *Materials*, 9(1), 50.
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 51. Augustine, R., Kalarikkal, N., & Thomas, S. (2016). Clogging-Free Electrospinning of Polycaprolactone Using Acetic Acid/Acetone Mixture. *Polymer-Plastics Technology and Engineering*, 55(5), 518-529.
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2015: 74

53. Subha Sasi, Rayaroth M. P., Devadasan D., Usha K. Aravind & C. T. Aravindakumar, (2015).
54. Influence of inorganic ions and selected emerging contaminants on the degradation of Methylparaben: A sonochemical approach, *Journal of Hazardous Materials*, 300, 202-209.
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- and validation of a high-performance thin layer chromatography method for the determination of cholesterol concentration, *Journal of Food and Drug Analysis*, 015, 219-224.
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 61. Yaragalla, S., Anilkumar, G., Vineeshkumar, T. V., Kalarikkal, N., & Thomas, S. Preparation of epoxy graphene and its structural and optical properties.
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306. Pratheesh, P. T., & Jayachandran, K. (2012). Biodegradation of toluene hydrocarbon by a *Pseudomonas* sp. isolated from gasoline contaminated soil. Int J Plant Anim Env Sci, 2, 210-216.
307. George,S.,& Jayachandran, K.(2012).Production and Characterization of Rhamnolipid Biosurfactant from Waste Frying Coconut Oil using a novel *Pseudomonas aeruginosa* D, Journal of Applied Microbiology, DOI 10. 1111/jam-12069.

INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE RESEARCH AND EXTENSION, PULLARIKUNNU

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 7 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 0 |
| 4. | Chapters in Books | 6 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 9 |
| | Total | 24 |

Refereed Journal Publications: 7

1. 'Global Capital and Peripheral Labour: The History and Political Economy of Plantation Workers in India', Journal of Agrarian Change, Vol. 14, Issue 1, 2013, pp.155-9, ISBN 978-0-415-62739-9
2. Beyond Subaltern Studies: Locating Dalit Studies, Gurukul Journal of Theological Studies, Vol. XXIV, Nos. 1 & 2 January & June 2013
3. Reconsidering Untouchability: Chamars and Dalit History in North India by Ramnarayan Rawat Bloomington, Indiana University Press, Bloomington, forthcoming in Studies in History, 2014
4. Creation of Social Space Through Prayers Among Dalits in Kerala, India pp.40-57, VOL.02, ISSUE01, 2016, Journal of Religious and Political Practice, Special Issue: Prayer and Politics Routledge
5. Problematising Dalit History, Social Orbit, Journal of Social Sciences, VOL.01, NO.01, 2015, pp.64-77, ISSN 2395-77189
6. Caste Slavery and Structural Violence in Kerala, Marg. A Magazine of Theatres December 2016-March 2017, pp.30-36
7. Emotions in the Context of Caste Slavery: Exploring the Missionary Writings on Kerala, in Studies in Humanities and Social Sciences, Vol XXII, Number 2, Winter 2015, Journal of the Inter-University Centre for Humanities and Social Sciences, IAS Shimla. pp.34-54

Chapters In Books: 6

1. Narrating the History of Slave Suffering' *No Alphabet in Sight New Dalit Writing From South India Dossier I; Tamil and Malayalam*. K.Satyanarayana and Susie Tharu,(eds) New Delhi, Penguin Books, 2011pp534-555, New Delhi, 978-0-143-41426-1
2. Caste and Accumulation of Capital' Oxford India Anthology of Malayalam Dalit Writing, M. Dasan (et al)Oxford University Press, New Delhi, 2012, ISBN 0-19-807940-0
3. Social Space, Civil Society, and Dalit Agency in Twentieth Century Kerala. PP 75-104, Dalit Studies, Ramnarayan Rawat and K.Satyanarayana Editors., DUKE UNIVERSITY PRESS, DURHAM, 2016, ISBN-9780822361138
4. 'Religion, Social Space and Identity: Prathyaksha Raksha Daiva Sabha and the Making of Cultural Boundaries in Twentieth Century Kerala', in *Life as a Dalit, Life as a Dalit, Views from the Bottom on Caste in India*. Subhadra Channa Mitra and Joan P. Mencher (ed) New Delhi, Sage, 2013, ISBN978-81-321-1123-8
5. Kallen Pokkudan Pachayudeyum Karuppinteyoum Rashtriyam, in Kallen Pokkudan, Karuppu, Chuvappu, Pacha, Eds. KP Ravi and Anandan P. Thrissur, Green Books, 2013. pp.29-44(Malayalam)
6. Complexities of Colonial Mentality, Introduction to Pulelikkunju, Chintha Publishers, Trivandrum, 2013

Books Authored with ISBN: 2

1. Modernity of Slavery: Struggles Against caste inequality in Colonial Kerala Pages. XIX +345, Oxford University Press, New Delhi, ISBN 0-19-809976-2
2. Viswasavum Vimochanavum: Kaippatta Habel, Co-authored with Vinil Baby Paul, Tiruvalla, Christhava Sahitya Samithy, 978-81-7821-693-5

Articles In Popular Publications: 9

1. Postings of Social Science Research Council New York's blog Reverberations by Sanal Mohan nos. 1-6, March 21, 2013
2. One Step and One Giant Leap Towards Humanity posted by Sanal Mohan, September 24, 2013
3. Prayer as Resistance posted by Sanal Mohan,
4. <http://forums.ssric.org/ndsp/2014/02/18/pathros-velliappan-an-outcaste-son-of-god/>,
5. <http://forums.ssric.org/ndsp/2014/04/15/dalit-christian-prayer-songs/>
6. Aug 14, 2015 ... NDSP grantee Sanal Mohan has been researching the history of Christianity among Dalits in Kerala, India. In this interview excerpt, Rachel .. [forums.ssric.org/ ndsp/tag/india/February 26, 2013](http://forums.ssric.org/ndsp/tag/india/February%2026%202013)
7. From the Lords Prayer to Invoking Slavery through Prayers: Religious Practices and Dalits in Kerala, India posted by Sanal Mohan
8. Athisayokthikal Thongal Charthunna Keraleeya Adhuniukatha, in *Samakalika Malayalam*, Kochi, 28 November 2016, pp.53-61
9. Dalith Charithram Prasnavalkarikkumbol, in *Puthu Vazhi* March 2014, part 2, No.1.pp.48-61

ADVANCED MOLECULAR MATERIALS RESEARCH CENTRE

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 10 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 10 |

Refereed Journal Publications :10

2016: 5

1. Paramagnetic Ionic liquids for advance application: a review, S. Mathew, P.R Nair, Aswathy Joseph, A.S Padmanabhan, Vipin Iype, Gawel Zyla Journal of Molecular liquids, 2016, 218, 319
2. Cuprous oxide nanoparticles in Epoxy network. Micro sctructure, chain confinement and mechanical behavior. A.T. Sunny, P.Vijayan, R.Adhikari, Suresh Mathew, Sabu Thomas, Phy.Chem.Chem.Phy, 2016,1,19655
3. A novel protocol for the Cu- catayzed sonogashira coupling reaction between Aryl halides and terminal alkynes using trans-1,2- diaminocyclohexane ligand S.Asha, A.M.Thomas, S.M.Ujwaldev and G.Anilkumar, Chemistry select, 2016, 1,3938
4. Experimental and mechanistic exploration of Zn- catalysed sonogashira-type cross-coupling reactions A.P.Thankachan, K.S.Sindhu and G.Anilkumar, Chemistry select 2016,1, 3405
5. Iron- catalysed sonogashira type cross- coupling reaction of Aryl iodides with thermal alkynes in water under aerobic conditions K.S.Sindhu, A.P.Thankachan, A.M.Thomas and G.Anilkumar, Chemistry select communications, 2016,3,556

2015: 3

6. Cuprous Oxide Nanoparticles in Epoxy Network, Anu T. Sunny, P. Vijayan, T. George, K. Pickering, S. Mathew and S. Thomas, Polymer Engineering and Science, 2015, 55,2293
7. Current trends in nano metal - organic frameworks for biomedical applications, Vandana P.V, Tony Francis, Seetharaj R. and Suresh Mathew, Science Letters, 2015, 4, 165.
8. Influence of Palladium loading on the degradation property of Titania nanostructure, IOSR J. App. Chem., Suprabha T. and Suresh Mathew, 2015, 41-50, ISSN No: 2278-5736.

2014: 2

9. Ferrofluids: Synthetic Strategies, Stabilization, Physicochemical Features, Characterization, and Applications, Aswathy Joseph, Dr. Suresh Mathew. Chem PlusChem, 2014, 79, 1382-1420.
10. Graphene-based semiconductor nanocomposites for photocatalytic applications, Divya K. S.; Umadevi T. U.; Dr. Suresh Mathew. Journal of Nanoscience Letters, 2014, 4, 21.

CENTRE FOR HIGH PERFORMANCE COMPUTING

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 16 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 5 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 21 |

Refereed Journal Publications: 16

1. Conformational features of benzo-homologated yDNA duplexes by molecular dynamics simulation. P Aparna, Mary Varughese, Mathew K Varghese, P Haris, C Sudarsanakumar *Biopolymers* 105 (2016) , 55-64.
2. Exploring the interaction of L-cysteine capped CuS nanoparticles with Bovine serum Albumin (BSA) :A Spectroscopic study. S. Prasanth, D Rithesh Raj, T.V. Vineeshkumar, Riju.K. Thomas and C.Sudarsanakumar, *RSC Advances.*, 6 (2016) ,58288-58295
3. Surface plasmon resonance based fiber optic dopamine sensor using green synthesized silver nanoparticles. D. Rithesh Raj, S. Prasanth, T.V. Vineeshkumar, C. Sudarsanakumar *Sensors and Actuators B:Chemical* 224 (2016) , 600-606.
4. Energetics, Thermodynamics and Molecular Recognition of Piperine with DNA. P Haris, V Mary, M Haridas, C Sudarsanakumar. *Journal of Chemical Information and Modelling* 55 (2015), 2644–26
5. Crystal Structure, FT-IR, FT-Raman, ¹HNMR and Computational study of Ethyl-2-[[[(Z)3-(4-chlorophenyl)-3-hydroxy-2-propene-1-thione]amino} acetate S.Prasanth, M. Varughese, N. Joseph, P. Mathew, T.K.Manojkumar and C.Sudarsanakumar *Journal of Molecular Structure* 1081(2015) , 366 – 374.
6. S. P. M. Menachery, Olivier Lapr  v  te, Thao P. Nguyen, Usha K. Aravind, G. Pramod and C.T. Aravindakumar, Identification of Position Isomers by Energy-Resolved Mass Spectrometry, *Journal of Mass Spectrometry* , 2015, 50, 944–950

7. Ammonia sensing properties of tapered plastic optical fiber coated with silver nanoparticles/PVP/PVA hybrid. Rithesh Raj, D, Prasanth S, Vineeshkumar T V and C.Sudarsanakumar .Optics Communications 340 (2015) 340, 86-92.
8. Nonlinear optical properties and fluorescence quenching behaviour of PVP capped ZnS nanoparticles codoped with Mn²⁺ and Sm³⁺. Prasanth. S, Irshad. P, Rithesh Raj D, Vineeshkumar T V, Reji Philip and C.Sudarsanakumar. Journal of Luminiscence 166 (2015)167-175
9. Growing Self Avoiding Walk Trees , A. S. Padmanabhan, J. Math. Chem. (2014) 52,355-367.
10. Self Avoiding Walk Trees and Laces, A. S. Padmanabhan and Susamma Jacob, J. Math. Chem. (2014) 52, 355-367. DOI 10-1007/s10910-013-0283-z
11. Oxidation Reactions of 1- and 2-naphthols: An Experimental and Theoretical Study, R. Sreekanth, K.P. Prasanthkumar, M.M. Sunil Paul, Usha K. Aravind,, C.T. Aravindakumar, J. Phys. Chem. A., 2013,117, 11261–11270
12. Dimer Radical Cation of 4-thiouracil: A pulse radiolysis and theoretical study, K. P. Prasanthkumar, C. H. Suresh, C. T. Aravindakumar, J. Phys. Org. Chem., 2013, 26, 510-516
13. Oxidation Reactions of Thymol: A Pulse Radiolysis and Theoretical Study, S. Venu, D.B. Naik, S.K. Sarkar, Usha K. Aravind A.Nijamudheen, C.T.Aravindakumar, , J. Phys. Chem. A., 2013, 117, 291–299
14. Oxidation Reactions of 2-thiouracil:A Theoretical and Pulse Radiolysis Study, K. P. Prasanthkumar, C. H. Suresh and C. T. Aravindakumar, J. Phys. Chem. A. 2012 116 ,10712–10720
15. Theoretical study of the addition and abstraction reactions of hydroxyl radical with uracil, K.P. Prasanthkumar, C.H. Suresh, C.T. Aravindakumar, Radiat. Phys. Chem., 2012, 81, 267-278
16. Molecular dynamics simulations and binding free energy analysis of DNA-minor groove complexes with curcumin.M.K.Varghese, N.V.Unnikrishnan and C.Sudarsanakumar Journal of Molecular Modeling 17 (2011), 2805-2816

Conference Proceedings: 5

1. National Symposium on X-ray diffraction and Recent Advances in Crystallography February 27 – 28, 2015, Periar University, Salem, Tamil Nadu.
2. National seminar on advanced materials and characterization techniques 2015 March 27-28, University of Kerala.
3. National Seminar on Photonics and its Applications, Department of Optoelectronics, University of Kerala, December 9-11, 2015
4. 6th International Symposium on recent trends in molecular structure and function Jan 22-24, 2014, Madras University.
5. International conference on chemical Biology: Disease mechanism and therapeutics: IICB 2014, Indian Institute of Chemical Technology, Hydrabad.

INSTITUTE FOR CONTEMPORARY CHINESE STUDIES (ICCS)

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 17 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 14 |
| 4. | Chapters in Books | 9 |
| 5. | Edited Books | 4 |
| 6. | Books authored with ISBN | 4 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 48 |

Refereed Journal Publications : 17

1. Co- author (2016), Human Rights Violations and Post-Saddam Iraq, *International Journal of Management and Social Science Research Review*, Vol.1, Issue.2. PP-198-203, ISSN -2349-6738, Impact Factor: 3.029.
2. Co- author (2015), Scope of Environmental Discourse: The Inspiration of Pope, *Journal of Peace Studies*, Vol.23, Issue.1, Jan -March 2016. ISSN -0972-563.
3. Co- author (2015), Energy Security and Climate Change: Indias Responses to the Challenges, *Journal of International Studies* , Vol.11, Issue.. ISSN -1823-691X.
4. Co- author (2015), Quest for Energy Security: New Trends In India-China Relations, *International Journal of Management and Social Science Research Review*, Vol.1, Issue.15, Sep - 2015. ISSN -2349-6738.
5. Co- author (2015), Energy Security and Climate Change: Problems and Prospects in India-Australia Relations, *ISDA Journal*, Vol.10, ISSN: 0971-2550.
6. C.Vinodan (2014), China and the Emerging Global Energy System, *Journal of International Studies*, Vol.1, No.3, ISSN: 1823-691X.
7. C.Vinodan (2013), The Rise of China and the Maritime Dispute in the South China Sea, *Southeast Asian Journal of Social and Political Issues*, Vol.1, No.3, ISSN: 2088-2955.
8. Co- author (2013) Energy Security: A Multivariate Analysis of Emerging Trends and Implications for South Asia, *India Quarterly*, Sage Publication, DeCc 69: 383-400, ISSN: 10.1177/0974928413503749.
9. Co- author (2013) Regionalism and Regional Cooperation in International Relations: A Conceptual Analysis, *Online International Interdisciplinary Research Journal*, Volume-III, Issue-VI, Nov-Dec, ISSN 2249-9598.

10. C.Vinodan(2012), Strategic Dimensions of China's South China Sea Policy: Implications for International Relations, *South Asian Journal of Diplomacy*, Vol. 3, No. 3, ISSN 2229-3361.
11. Co- author (2012), The EU –India Relations: Towards A New Partnership in the Asian Century, *Journal of Asian Politics*, Vol. 11, No. 2, ISSN 2230-9063.
12. C.Vinodan (2011), Terrorism and Nuclear Security South Asia: The Case of Pakistan,*International Journal of South Asian Studies*, Vol. 4, No. 2, ISSN 0974-2514.
13. C. Vinodan, (2011), The Rise of Asia and China's New Energy Policy, *South Asian Journal of Diplomacy*, Vol. 2, No. 2, ISSN 2229-3361.
14. Co- author (2011), Renewable Energy Development in India, *Journal of Parliamentary Studies*, Vol.2, Issue 1, ISSN 2231-0355.
15. Co- author (2010), Energy Security in India, *Social Science in Perspectives* , Vol 2, No 2, ISSN 0975-5497.
16. C.Vinodan (2010), 'Energy, Environment and Security in South Asia,' *International Journal of South Asian Studies*, vol.3 no 2, January-June, ISSN 0974-2514.
17. C. Vinodan,(2010), "Energy Cooperation in South Asia," *South Asian Journal of Diplomacy*, 1(1), ISSN 2229-3361.

Conference Proceedings: 14

1. India – China and the Asian Energy security: Towards A new Grand Strategy in the Asian Century (2014),International Conference on : India – China Relations : Implications for Peace and Prosperity of Asia(11-12 October, 2014).
2. C.Vinodan, Maritime Dimensions of Energy Security, The 2016 Sino-Indian Cross Cultural Dialogues held by the Institute of Advanced International Studies, Sun Yat-sen University, Guangzhou, China during 17-19 June ,2016.
3. C.Vinodan, Climate Change and Sustainable Development: Implications for India, 2ndInternational Conference on: Inclusive Economic Growth and Sustainable Development, organized by SDMIND Institute for Management and Development, Mysore during 18-19 November, 2016.
4. C.Vinodan, Women Empowerment and Climate Change in a Changing World, International Conference on: Envision: A Holistic View of Empowering Women, organized by St.Xaviers College for Women, Aluva during 15-16 November, 2016.
5. C.Vinodan, Environmental Conservation and Human Rights Issues: The Case of Western Ghats in India, International Seminar on: Human Rights in India- Current Issues and Challenges, organized by the Political Science and Publication Wing, Annamalai University in Association with the ICSSR New Delhi during 29-30 March, 2016.
6. C.Vinodan, Climate Funding and Policy Formation: The Case of Western Ghats in India, organized by the Department of Law, Central University of Kerala, Thiruvalla Campus on March 17, 2016
7. C.Vinodan, Social science Research in the Globalised Era, Two Day Workshop on : Research Methodology in Social Sciences, sponsored by the Kerala State Higher education Council and organized by the Post- Graduate and Research Department of Political Science, Sree Narayana College , Kollam during 30-31 January 2015.

8. C.Vinodan, India, China and the Asian Energy Security: Towards A New Grand Strategy in the Asian Century, International Conference on : India –China Relations: Implications for Peace and Prosperity in Asia, organized by the UGC Centre for South East Asian& Pacific Studies, Sri Venkateswara University, Tirupati during 11- 13 October, 2014.
9. C.Vinodan, Emerging Powers and Energy Security, Two Day National Seminar on: State, Democracy and Governance; Landscaping National and International Politics, organized by the Department of Political Science, Government College, Kottayam during 5-6 February, 2014
10. C.Vinodan, Two Day UGC Sponsored National Seminar on: State, Democracy and Governance; Landscaping National and Indias Economic Growth, Energy Scenario and Climate Change, organized by the Post Graduate Department of Economics, Kuriakose Elias College, Mannanam, Kottayam. during 20-21 August, 2013
11. C.Vinodan, India and Global Energy Governance, International Conference on: India and International Organisations, Dept. of International Relations, Central University of Kerala, March 20-22,2013 Kasaragod.
12. C.Vinodan, *Regional Connectivity and Energy Security in South Asia*, International Conference on *Towards Grater Connectivity in South Asia*, UNESCO Madangith Singh Institute of South Asian Regional Cooperation
13. (UMISARC) Pondicherry University, February 14-16, 2013.
14. C. Vinodan, *Regional Energy Cooperation, Peace and Security in South Asia*, International Conference on Peace, Security and Economic Development in South Asia, Department of Defense and Strategic Studies, Punjabi University, Patiala in collaboration with Association of Asia Scholars (AAS), New Delhi, March 4-6, 2011.

Chapters In Books: 9

1. Co- author(2016), Emerging Powers and Global Climate Change: Responses of India and China, in Shahanshah Gulpham& Ali Saeed (Eds.) Dynamics of BRICK Nations: Challenges Ahead, Paragon International Publishers, New Delhi. . ISBN 978-93-83154.
2. C. Vinodan (2015), Regional Connectivity and Energy Security in South Asia: Challenges and Opportunities, in Mohanan B.Pillai &Alduri Subramanyan Raju (Eds.), Connectivity and Integration in South Asia, Kalpaz Publications, New Delhi. ISBN 978-93-5128-129-0.
3. C. Vinodan (2015), Nuclear South Asia: Strategic and Security Dimensions, in Suresh R (Ed.), The Changing Dimensions of Security: Indias Security Policy Options, Vij Books Ind Pvt Ltd, New Delhi. ISBN 978-93-84464-80-6.
4. C. Vinodan (2014), Emerging Nuclear Order and South Asia, in C.Vinodan(Ed.) South Asia in the Globalised World, New Century Publishers, New Delhi. ISBN 978-81-7708-347-7.
5. C.Vinodan(2014), Maritime Rivalry and Energy Security: India and the South China Sea Dispute, in Dr. Suresh.R(Ed.), Maritime Security of India: The Costal Security Challenges and Policy Options, Vij Books India Pvt Ltd., New Delhi.ISBN:978-93-82652-36-6

6. Co- author(2014), Regional Integration and Energy Security in South Asia, in C.Vinodan (Ed.) South Asia in the Globalised World, New Century Publishers, New Delhi. . ISBN 978-81-7708-347-7.
7. C.Vinodan(2013), China, US and South China Sea Dispute, in Mohanan B.Pillai (Ed.), India's National Security: Concerns and Strategies, New Century Publishers, New Delhi. ISBN: 9788177083569
8. C.Vinodan(2013), Maritime Dimensions of Energy Security: China and South China Sea Dispute,in K.S. Pavithran(Ed.), Foreign Policy and Maritime Security of India , New Century Publishers, New Delhi. ISBN: 9788177083514
9. C.Vinodan (2010),”Climate Change and Energy Development in South Asia: Challenge and Opportunities before SAARC”, in Srivastava and Safudeen Soz (Eds.), SAARC: Emerging Challenges, Foundation for Peace and Sustainable Development, New Delhi.

Edited Books: 4

1. C.Vinodan Ed.(2017), India’s Foreign Policy and Diplomacy: Emerging Scenario and Challenges, New Century Publications, New Delhi, ISBN 978-81-7708-436-8.
2. C.Vinodan Ed.(2017), Defence and National Security of India: Concerns and Strategies, New Century Publications, New Delhi, ISBN 978-81-7708-440-5
3. C.Vinodan Ed.(2017), Governance and Development Challenges in India New Century Publications, New Delhi (In press)
4. C.Vinodan Ed.(2014), South Asia in the Globalised World, New Century Publishers, New Delhi, ISBN 978-81-7708-347-7.

Books Authored with ISBN : 4

1. Co- Author (2017), US Occupation and Human Rights Issues, Gyan Books Publishers, New Delhi, ISBN : 978-93-8022-3100.
2. Co- author (2016), Local economic Development and Sustainable Livelihood in Kerala, SIRP Publication, Mahatma Gandhi University, Kottayam.
3. C.Vinodan (2015), *Energy Security Choices for India*, New Century Publishers, New Delhi,ISBN 978-81-7708-396-5.
4. Co-author (2014), Regional Integration and Energy Security: The European Union Experience, Lambert Academic Publishing, Germany. ISBN: 9783659649516 3659649511

INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES (IIRBS)

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|-------------------------------|-----------|
| 1. | Refereed Journal Publications | 06 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 04 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Patents | 2 |
| | Total | 12 |

Refereed Journal Publications: 06

1. Polavarapu PL, Scalmani G, Hawkins EK, Rizzo C, Jeirath N, Ibnsaud I, Habel D, Nair DS, Haleema S. Importance of solvation in understanding the chiroptical spectra of natural products in solution phase: garcinia acid dimethyl ester. Journal of natural products. 2010 Nov 29;74(3):321-8.
2. Polavarapu PL, Donahue EA, Shanmugam G, Scalmani G, Hawkins EK, Rizzo C, Ibnsaud I, Thomas G, Habel D, Sebastian D. A single chiroptical spectroscopic method may not be able to establish the absolute configurations of diastereomers: dimethylesters of hibiscus and garcinia acids. The Journal of Physical Chemistry A. 2011 May 13;115(22):5665-73.
3. Polavarapu PL, Donahue EA, Hammer KC, Raghavan V, Shanmugam G, Ibnsaud I, Nair DS, Gopinath C, Habel D. Chiroptical spectroscopy of natural products: avoiding the aggregation effects of chiral carboxylic acids. Journal of natural products. 2012 Aug 9;75(8):1441-50.
4. Haleema S, Sasi PV, Ibnsaud I, Polavarapu PL, Kagan HB. Enantiomerically pure compounds related to chiral hydroxy acids derived from renewable resources. RSC Advances. 2012;2(25):9257-85.
5. Nair DS, Ibnsaud I. Synthesis of enantiopure furan [2, 3-b] pyrroles. Tetrahedron Letters. 2014 Oct 15;55(42):5822-4.
6. Sivanandan ST, Shaji A, Ibnsaud I, Seechurn CC, Colacot TJ. Palladium \square Catalyzed α Arylation Reactions in Total Synthesis. European Journal of Organic Chemistry. 2015 Jan 1;2015(1):38-49.

Conference Presentations: 04

1. Enatiopure synthesis of indolizinoindole alkaloid ,(+)-Harmacine and (-)-Harmacine from (2S,3R)-Tetrahydro-3-hydroxy -5-oxo-2,3-furandicarboxylic acid(Hibscuss acid) and (2S,3S)-Tetrahydro-3-hydroxy-2,3-furandicarboxylic acid (Garcinia acid), Sarath.M and I. Ibnusaud* , 10th Mid-Year CRSI Symposium in Chemistry , NIT-Trichy , Tamilnadu, July 23-25, 2015.
2. Enatiopure synthesis of biologically active nitrogen heterocycles from hydroxycitric acid, Tharique Ahammed Ansari, Mohammed Ajmal , Anumol.S and I. Ibnusaud*, 10th Mid-Year CRSI Symposium in Chemistry , NIT-Trichy, Tamilnadu, July 23-25, 2015.
3. Selective and tandem reduction of esters of Garcinia and Hibiscus acids using boranes and borohydrides.''B NMR spectroscopy based mechanistic insight into reduction reactions of hydroxyacid esters'', Abhijith .A, Simimole. H,Prasanth C.P, Sachin Raj K.C, BakthanSingaram, I. Ibnusaud*, 10th Mid-Year CRSI Symposium in Chemistry , NIT-Trichy, Tamilnadu, July 23-25, 2015.
4. National seminar on "Recent Advances in Medicinal Plant Research", Sarath.M, Department of Chemistry, Bharata Mata College ,Thrikkakara, Kerala,June 11th and 12th , 2015

Patent: 2

1. Ibrahim Ibnusaud and SarathMuralidharan Pillai. Enatiopure total synthesis of indolizinoindole alkaloid (+)harmicine and (-) harmicine from (2S,3R)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid (Hibiscus acid) and (2S,3S)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid(Garcinia acid) Indian Patent application filed 2015.
2. Synthesis of (R)-(+)- Crispine A and (S)-(-)- Crispine A from(2 S ,3 R)- and (2 S ,3 S)-Tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acids, DivyaSadasivan Nair, DeenammaHabel and Ibrahim Ibnusaud, Indian Patent application filed 2015

K.N. RAJ CENTRE FOR PLANNING AND CENTRE-STATE RELATIONS (KNRC)

3.4.2 Give details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 23 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 10 |
| 5. | Edited Books | 4 |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 6 |
| | Total | 45 |

Refereed Journal Publications: 23

1. “Political Economy of access to Space Technologies: Positioning India” in *Journal of Political Economy and Fiscal Federalism*, January-June, Vol.1. 2016. Co-author Ramnath
2. Regional Comprehensive Economic Partnership and its Implications For Indian Spices Trade: A political economy Approach, *Journal of Polity and Society*, 2015, Co-Author Aswathy Varughese.
3. “South- South Cooperation and Spices trade: Indian Scramble for African-LAC Trade”, *Journal of Polity and Society*, 2015. Co-Author Aswathy Varughese
4. “The Politics of North South Dialogue: A Constructivist Interpretation of current impasse in WTO Doha Round Negotiations” (co-author Schieder Siegfried) paper submitted to *Millennium Journal of International Studies*, November, 2015.
5. ‘The Role of Media in the Protection of Human Rights in India’, *Holistic Thought*, Vol. 12, No.1, January- June, 2013
6. How effective is the Participation of Developing Nations in the WTO Dispute Settlement Mechanism: A Statistical Analysis, C-TDG Development & Governance Issue Paper 05, June 2011 (modified and updated version to be reprinted in *ISDA Journal: Studies in Development and Administration*
7. “India and WTO Jurisprudence: Scope of Distributive Justice”, *South Asian Journal of Diplomacy*, Vol.2, 2011
8. Research articles in peer reviewed journals: Manikandan A.D at V.Mathew Kurian(2016); “Theory and Practical Implications of Land Degradation and

- Livelihood: Case of Attappadi Region in Kerala”, Asia- Pacific Journal of Rural Development, Vol. XXVI, No.1, July, pp:85-102
9. Renji George Amballoor and V.Mathew Kurian(2016): “Need for the Left Democratic Front to Usher in a Paradigm Shift in Kerala”, Mainstream, Vol L IV No.33, August 6 pp.17-18; ISSN 0542-1462
 10. V.Mathew Kurian and Raju John (2015): “Overseas Labour Migration from Kerala: Some Disquieting Facts”, Journal of Parliamentary Studies, Vol 7, Issue 1, January-June pp: 63-67; ISSN 2231-0355
 11. V.Mathew Kurian (2015): “Ethics and Economics, Journal of Political Economy & Fiscal Federalism, Vol.1 pp 207-218; ISSN 2395-6976
 12. Winson Thomas and V.Mathew Kurian (2015): Traditional Knowledge and Indigenous People”, *Ibid* pp 195-206
 13. V.Mathew Kurian(2014) : “ Sustainable Energy for Sustainable Human Development: An Overview”, Mainstream , Vol L 11 No.14, March pp 20-23; ISSN 0542-1462
 14. V.Mathew Kurian and Manikandan A.D (2013): “Education for Cultural Transformation Towards a Paradigm Shift”, *Conflux- Journal of Education*, Vol 1, Issue 3, August pp 5-13; ISSN 2320-9305
 15. V.Mathew Kurian and Manikandan A.D (2013): “Gender Dimension in Decentralized Planning: The Lessons from Kerala”, Journal of Parliamentary Studies, Vol 5 Issue 2, July- December pp 109-114; ISSN 2231-0355
 16. V.Mathew Kurian (2012): “Church and Education in Kerala” Mainstream, Vol L No.10, February 25 pp 4-5; ISSN 0542-1463
 17. V.Mathew Kurian(2011): “New Capitalism and the Emerging Global Crisis- A Biblical Perspective”, Mainstream , Vo X L IX No.9, February 19 pp 17-20; ISSN 0542-1462
 18. V.Mathew Kurian and Manikandan A.D (2011): “Impact of the India- Sri Lanka Free Trade Agreement on Pepper Trade in Kerala”, Rajagiri Journal of Social Development, VOL.2, No.2 June pp. 127-146
 19. V.Mathew Kurian (2010): “Global Financial Crisis and its Impact”, Quest-Journal of Ernakulam Insurance Institute, Vol.18, Issue 1, March pp 3-10
 20. Naduthotty, Jose J. (2015): “*Environmental Regulation: Enemy or handmaiden of trade?*”, *Journal of Political Economy and Fiscal Federalism*, Vol 1, pp. 127-136
 21. Naduthotty, Jose J. (2014): “*Status of women in Kerala*”, in. V. Mathew Kurian and Raju John (eds.) *Kerala Economy and its Emerging Challenges*, SPSS, Kottayam
 22. Naduthotty, Jose J. (2010): “*Sustainable development and the need for controlled consumption*”, *Journal of Engineering and Management*, SJCET, Pala
 23. Social Infrastructure and Human Development in India: An Inter- State Comparison., *Journal of Political Economy and Fiscal Federalism*, July-December 2016.

Chapters In Books: 10

1. “India’s Innovation Systems: Changing Structure in the Post-TRIPS Regime”, C.Vinodan (ed.), *South Asia in a Global Context*, New Century Publishers, New Delhi, 2014

2. 'Economists' Handmaid, Politician's Nightmare: Politics of GST' in Australia in CP Chandrasekhar and Girish Kumar R (Ed.), *GST: Fiscal Federalism in Central Polity*, Mahatma Gandhi University, Kerala, India 2016.
3. V.Mathew Kurian (2015) : " Globalizing India as a Challenge to Inclusive Growth and Development" in Shyni T Alexander (ed.) : Inclusive Growth : The Unfinished Agenda, Pathanamthitta, The Dept of Economics, Catholicate College ; ISBN 978-93-5254-013-6
4. V.Mathew Kurian(2014) : "Globalization, Free Trade Agreements and Kerala's Agrarian Economy", in V.Mathew Kurian and Raju John (ed.) Kerala Economy and its Emerging Issues, Kottayam; SPCS pp 41-93; ISBN-978-93-84571-11-5
5. Jisha John and V.Mathew Kurian (2014): "Technological Modernisation and its Impact on Environment and Livelihood. A Study on the Fishing Community of Kerala" in Ibid pp 151-160
6. V.Mathew Kurian and Raju John (2014): "Sustainable Energy for Kerala: An Overview" in Ibid pp 334-343
7. V.Mathew Kurian and Manikandan A.D (2014): "India- Sri Lanka Free Trade Agreement in Spices" in C. Vinodam (ed.): South Asia in the Globalised World, New Delhi: Century Publications, pp.147-161; ISBN: 978-81-7708-347-7
8. V.Mathew Kurian(2012): "Justice Dimension in Oommen's Intellectual Quest" in Mammen Varkey (ed.) : M.A.Oommen- The Man and The Economist, New Delhi: Institute of Social Sciences and Mavelikara: Vichara pp 72-78; ISBN 978-81-9091 38-5-0
9. Jisha John and V.Mathew Kurian (2011): Technical Development and Deprivation: A Study of Marine Fishing Community in Kerala" in Manju s. Nair and M.K.Saralamma (ed.): Development vs Deprivation in the Era of Globalization, Vol.II, Sonali Publications: New Delhi
10. Jisha John and V.Mathew Kurian (2011): "Technological Modernisation and its Environmental Impact: A Study on the Fishing Community of Kerala", www.eco.insec

Edited Books: 4

1. CP Chandrasekhar and Girish Kumar R (Ed.), *GST: Fiscal Federalism in Central Polity*, Mahatma Gandhi University, Kerala, India 2016
2. MA Oommen and Girish Kumar: Kerala Development Oxymora: Revisiting Kerala Model of Development
3. Book (s): V.Mathew Kurian and A.D.Manikandan (2011); Globalization and Agrarian Crisis in Kerala, Mavelikara: Vichara school of people's Economics; ISBN-978-81-909138-2-9
4. Book (s) (edited): V.Mathew Kurian and Raju John (2014); Kerala Economy and its Emerging Issues, Kottayam; SPCS, ISBN-978-93-84571

Books Authored With Isbn: 2

1. Loka Vyapara Sankadanayum Vikaswara Rajyanagalum, Government of Kerala, Basha Sahithya Institute, 2013(Transl. WTO and Developing Countries).

2. Pampa Nadi: Paristhithiyum, Samskaravum, Government of Kerala, Basha Sahithya Institute, 2013(Trnsl. Pampa River: Environment and Culture. A book on River Governance).

Articles In Popular Publications: 6

1. Published article in *Mathrubhumi*, on 'India and Credit Rating'
2. Talk on *Malayala Manorama Vision* on 7th November, 2012 on US Presidential elections, 2012
3. Gave interviews to *Asianet*, TV channel, 'videsha vicharam' on India and International Organisations
4. Ernst Ulrich Petersmann, Girish Kumar R and Harsha V Singh, *India and WTO: Law, Economics and Politics*, Routledge, forthcoming.
5. Jisha John, A.D Manikandan, V.Mathew Kurian," Right to Fishing", Economic and Political Weekly (EPW) (Forthcoming)
6. "An Assessment of MGNREGS in Attappady Tribal Block in Palakkad (Dist.) Kerala", publishing in the forthcoming book by Academic Foundation New Delhi

NATIONAL INSTITUTE OF PLANT SCIENCE TECHNOLOGY

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 29 |
| 2. | Monographs | - |
| 3. | Conference Proceedings | 23 |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | - |
| 8. | Articles in popular publications | - |
| 9. | Total | 56 |

Refereed Journal Publications: 29

1. K.S Rishad, Sharrel Rebello, S Shabanamol and M.S Jisha,(2016). Screening of halophilic bacteria producing extracellular hydrolytic enzymes from Valanthacaud Mangroves, Kochi, Kerala. J. Microbiol. Biotech. Res., 2016, 6 (6):1-15
2. Devi Rajan^a; Tijith Kuzhiyil George^a; Dibu Divakaran^a; Sharrel Rebello^a and Jisha manakulam shaikmoideen^a (2016). Biomodulatory role of Enterobacter sp- a novel bacterial endophyte of Sida cordifolia and its comparative analysis with plant extract. Journal of biologically active products from nature
3. Smitha Vijayan, Divya K, Tijith K. George, Jisha M.S (2016).Antibacterial and cytotoxicity studies of silver nanoparticles synthesized by endophytic Fusarium solani isolated from withania somenifera (L.). Water Environ. Nanotechnol., 1(2): 91-103, Autumn 2016
4. K.S Rishad, Sharrel Rebello, Vinod Kumar Nathan, S Shabanamol and M.S Jisha,(2016) Biocontrol potential of halotolerant bacterial chitinase from high yielding novel Bacillus pumilus MCB-7 autochthonous to mangrove ecosystem. Pesticide biochemistry and physiology. Impact factor 2.388
5. Vinod Viswanath,Vincent Vineeth Leo, Sabna Prabha S, V P Potty and Jisha M.S (2016). Optimized production of tannase from cashew testa using Aspergillus niger MTCC 5898". Food Biotechnology. Impact factor 0.814.
6. Divya K, Kurian LC, Vijayan S, Jisha MS, Green synthesis of silver nanoparticles by Escherichia coli : Analysis of antibacterial activity. J. Water Environ. Nanotechnol., 2016; 1(1): 63-74, DOI: 10.7508/jwent.2016.01.008

7. Smitha Vijayan, Divya K, Tijith K. George, Jisha M.S. Biogenic synthesis of silver nanoparticles using endophytic fungi *Fusarium oxysporum* isolated from *Withania Somnifera*, its antibacterial and cytotoxic Activity. *Journal of bionanoscience*.10 (5).2016
8. Elizabeth Mary John and Jisha M.S (2016). Optimization of chlorpyrifos degradation by assembled bacterial consortium using response surface methodology. *Soil and sediment contamination* .Accepted The publishers, Taylor & Francis. Impact factor 1.189
9. Sharrel rebello, Biljo Joseph, Sunil Joseph, Leny Jose, Sathish Mundayoor, Jisha M.S, Bioconversion of sodium dodecyl sulfate to rhamnolipids by transformed *Escherichia coli* DH5 α cells – a novel strategy for rhamnolipid synthesis. *Journal of Applied Microbiology*. impact factor 2.49
10. K.S Rishad, Sharrel Rebello, Vinod Kumar Nathan, S Shabanamol and M.S Jisha, Optimised production of chitinase from a novel mangrove isolate, *Bacillus pumilus* MCB-7 using response surface methodology, *Biocatalysis and Agricultural Biotechnology*, <http://dx.doi.org/10.1016/j.bcab.2016.01.009>
11. Dhanya, j Sreekumar, Jisha M.S (2016), Evaluation of antagonistic potential and Induction of flowering in *Anthurium Andreanum* L. by indigenous *Pseudomonas taiwanensis*. *International Journal of Agriculture Innovations and Research* 4 (4), 760-766
12. Smitha vijayan and Jisha,M,S. Extracellular synthesis of silver nanoparticles by endophytic *Fusarium solani* from *Withania somnifera* and its antibacterial and cytotoxicity studies. *Proceedings of 4th International Conference on Nanotechnology and Basic Science (ICN2016)*, 4-5 February 2016, Dubai. Emirates
13. Divya K., Liya C. Kurian, Smitha Vijayan, Jisha M.S*.. Green Synthesis of Silver Nanoparticles by *Escherichia coli* and its Antibacterial Activity. *Proceedings of 4th International Conference on Nanotechnology and Basic Science (ICN2016)*, 4-5 February 2016, Dubai. Emirates
14. Aju K. Asok, P. A. Fathima, M. S. Jisha (2015), Biodegradation of Linear Alkylbenzene Sulfonate (LAS) by Immobilized *Pseudomonas* sp. *Advances in Chemical Engineering and Science*, impact factor 0.8
15. Elizabeth Mary John and Jisha M.S (2015), Chlorpyrifos: pollution problems and remediation .*Environmental Chemistry Letters* as review paper. impact factor 2.9
16. Tijith K George, Aju K. Asok, S. Shabanamol, Sharrel Rebello and Jisha M.S (2015), "Endophytic mycotic diversity of *Bruguiera cylindrica* and *Rhizophora candelaria* from Ayiramthengu mangrove ecosystem, Kerala" in *Annals of biological research*.
17. Vinod Viswanath,Vincent Vineeth Leo, Sabna Prabha S, Prabhakumari.C, ,V P Potty and Jisha M.S (2015). Biosynthesis of tannase from cashew testa using *Aspergillus niger* MTCC5889 by Solid State Fermentation" (DOI: 10.1007/s13197-015-1858-4) *Journal of food science and technology*. Impact factor 2.203
18. Vinod Viswanath,Vincent Vineeth Leo, Sabna Prabha S, Prabhakumari.C, ,V P Potty and Jisha M.S (2015). Thermal properties of tannin extracted from *Anacardium occidentale* L. using TGA and FTIR Spectroscopy. *Natural products research*. The publishers, Taylor & Francis. Impact factor 1.2

19. Joseph Stephen • S. Shabanamol • K. S. Rishad • M. S. Jisha (2015). Growth enhancement of rice (*Oryza sativa*) by phosphate solubilizing *Gluconacetobacter* sp. (MTCC 8368) and *Burkholderia* sp. (MTCC 8369) under greenhouse conditions. 3 Biotech DOI 10.1007/s13205-015-0286-5. Springer 0.992
20. Elizabeth Mary John; Sharrel Rebello; Aju K. Asok and Jisha M.S (2015). *Pseudomonas plecoglossicida* S5 a novel isolate for sodium dodecyl sulfate degradation. Environmental Chemistry Letters. Volume 13(1) pp 117-123. impact factor 2.573
21. Ambilli M. Nair; Sharrel Rebello; Rishad K.S; Aju K. Asok and Jisha M.S. (2015) Biosurfactant Facilitated Biodegradation of Quinalphos At High Concentrations By *Pseudomonas aeruginosa* Q10. Soil and sediment contamination Volume 24 (5)542-553. The publishers, Taylor & Francis. Impact factor 1.02
22. Divya K; Sharrel Rebello and Jisha M.S.(2014) A simple and effective method for extraction of high purity chitosan from shrimp shell waste”. International journal of environmental engineering. Volume 1, Issue 4, 86-90.
23. Elizabeth Mary John; Sharrel Rebello and Jisha M.S.(2014) Chlorpyrifos degradation using bacterial consortium obtained from soil. International journal of environmental engineering. Volume 1, Issue 4, 91-94.
24. Salini T. S, Dibu Divakaran, Shabanamol S, Sharrel Rebello and Jisha M.S(2014). Antimicrobial and immunomodulatory potential of endophytic fungus *Fusarium solani* isolated from *Withania somnifera* ' .World Journal of Pharmaceutical Research Volume 3, Issue 10, 879-890. Impact factor 5.990
25. Ambily PS and Jisha M.S. (2014). Metabolic profile of sodium dodecyl sulphate (SDS) biodegradation by *Pseudomonas aeruginosa* (MTCC 10311). Journal of Environmental Biology. Vol. 35, 827-831 .Impact factor 0.68
26. Athul Sandheep R, and Jisha M. S (2014) Screening and identification of potential *Trichoderma* sp. against soil borne pathogens of *Vanilla planifolia*. Indian Journal of Agricultural Research (NAAS Rating 3.86)
27. Sharrel Rebello, Aju K. Asok, Sathish Mundayoor, Jisha M.S (2014). Surfactants: Toxicity, remediation and green surfactants—Review article. Environmental Chemistry Letters. Doi 10.1007/s10311-014-0466-2 Impact factor – 2.573
28. Athul Sandheep R, Aju K. Asok, Fathima P. A. and Jisha M. S (2014). Exploiting the biocontrol potential of indigenous *Trichoderma* sp. against major phytopathogens of *Vanilla* (*Vanilla planifolia*).South Asian Journal of Experimental Biology.4(1):1-7
29. Shabanamol S and Jisha M.S.(2014).Assessment of rice endophyte diazotrophic bacteria for biocontrol of rice sheath blight. Indian Streams Research Journal. 3(12): 1-6.

Conference Proceedings : 23

1. Smitha Vijayan at International association of chemical, biological and medicinal sciences researchers, Dubai for the paper entitled Synthesis, characterization and comparative antibacterial effect of silver nanoparticles and chitosan conjugated silver

- nanoparticles synthesized by endophytic *Colletotrichum gloeosporioides* on 31st December 2016. Best paper presentation award
2. Alan Thomas S at International seminar on emerging trends in organic farming and sustainable agriculture for the paper entitled Identification of tropical crop plants suitable for cultivation in Nedumbana Panchayat, Kollam district , Kerala based on the flowering plant flora of the Pazhangalam Muhurthy sacred grove on 29th to 31st December 2016 Best paper presentation award
 3. K. Divya, SmithaVijayan, Elizabeth Mary John, and M.S. Jisha. Optimization of Chitosan Nanoparticle Synthesis and its Potential Application in Germination of *Oryza sativa* L. at International association of chemical, biological and medicinal sciences researchers, Dubai , 31st December 2016.
 4. Smisha Lawrance, Smruthy M, Anto Joseph, Aju K Asok, Jisha M. S. *Pseudomonas aeruginosa* H6 isolated from rhizosphere soil as a potent bio-herbicide candidate for weed control at International seminar on emerging trends in organic farming and sustainable agriculture on 29th to 31st December 2016
 5. Aswani P, Salini T.S and Jisha M.S. Characterization of bioactive metabolites of endophytic fungi *Fusarium solani* isolated From *Withania somnifera*. 5th International conference on Sustainable utilization of tropical plant Biomass: Bioproducts, Biocatalysts and Biorefinery (SutB4), 17-18 November 2016 at TNAU, Coimbatore.
 6. Smitha vijayan and Jisha,M,S. Extracellular synthesis of silver nanoparticles by endophytic *Fusarium solani* from *Withania somnifera* and its antibacterial and cytotoxicity studies Proceedings of 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
 7. Divya K., Liya C. Kurian, Smitha Vijayan, Jisha M.S*.. Green Synthesis of Silver Nanoparticles by *Escherichia coli* and its Antibacterial Activity. Proceedings of 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
 8. Dhanya D.R, Dhanya S and JishaM.S. Fluorescent *Pseudomonas* mediated control of bacterial blight of anthurium. National Seminar on Plant science Technology for sustainable world at National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.
 9. Divya K., Dhanya D.R., Dhanya S. and Jisha M.S. biocontrol activity of *pseudomonas fluorescens* against bacterial blight of anthurium caused by *xanthomonas axonopodis* pv *diffenbachiae*. National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.
 10. Divya R and Jisha M.S. preliminary studies on isolation and characterization of microbial endophytes from selected medicinal plants in Kerala. National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.
 11. Linu MS and Jisha MS. Phytohormone production and plant growth promoting potentials of phosphate solubilizing *Pseudomonas aeruginosa* isolated from chilli rhizosphere. National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam on February 25th -26th 2016.

12. Alan Thomas S, Girilal M. Synthesis and optimisation of silver nanoparticles from the leaf extract of *Merremia vitifolia* (Burn.F.)Hallier f.. National Seminar on Plant science Technology for sustainable world at National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam February 25th -26th 2016.
13. Anila Maria Isac and Kavitha R.Comparative study on the role of auxin and cytokinin in in-vitro development of selected medicinal plants species.National Seminar on Plant science Technology for sustainable world at National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam February 25th -26th 2016.
14. Anto Joseph and Joseph.In silico Mutation Analysis of D1 Protein in Normal and Herbicide Resistant Plants of family Poaceae.National Seminar on Plant science Technology for sustainable world at National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam February 25th -26th 2016
15. Drisya Mohan and Rajitha L R.Pollen morphology of slected species of Malvaceae and Compositae .National Seminar on Plant science Technology for sustainable world at National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam February 25th -26th 2016
16. Helseena E.H. and Punnen Kurian.Comparative analysis of antimicrobial potential of garden medicinal plants –*Ocimum tenuiflorum* l. And *coleus aromaticus* benth.National Seminar on Plant science Technology for sustainable world at National Institute of Plant ScienceTechnology (NIPST), M.G. University, Kottayam February 25th -26th 2016
17. Smitha Vijayan, Jisha M.S. Biogenic Synthesis of Silver Nanoparticles Using Endophytic Fungi *Fusarium* Sps Isolated From *Withania Somnifera*, its Antibacterial and Cytotoxic Activity Fourth international conference on natural polymers and biopolymers (ICNP 2015) at Kottayam during April 11-13.
18. Divya K; Sharrel Rebello and Jisha M.S.(2014) A simple and effective method for extraction of high purity chitosan from shrimp shell waste” with paper ID “ASEE-14-408 Proceedings of the International Conference On Advances in Applied Science and Environmental Engineering - ASEE 2014, Institute of Research Engineers and Doctors (IREDD), ISBN: 978-1-63248-004-0 doi: 10.15224/ 978-1-63248-004-0-93 at Kuala Lumpur, Malaysia
19. Elizabeth Mary John; Sharrel Rebello and Jisha M.S.(2014) Chlorpyrifos degradation using bacterial consortium obtained from soil” Proc. of the Intl. Conf. on Advances In Applied Science and Environmental Engineering ASEE 2014.Copyright © Institute of Research Engineers and Doctors..ISBN: 978-1-63248-004-0 doi: 10.15224/ 978-1-63248-004-0-12 at Kuala Lumpur, Malaysia
20. Devi R; Diby Divakaran; Tijith K. George; Sharrel Rebello and Jisha M.S. Isolation of bioactive endophytic bacterial isolates paved the way for conservation of *sida cordifolia*. Second national biodiversity congress (NBC) 2015 at Trivandrum during 23-27 February conducted by Kerala Biodiversity Board.
21. Divya.R and M.S.Jisha. Studies on the diversity of endophytic fungi from rice *Oryza sativa* and their antagonistic activity against *Rhizoctonia solani*. 5 th national level seminar Biovision 2014 at Mercy college Palakkad.Dec,2014

22. Shabanamol S and Jisha M S, Endophytic bacteria as potent plant growth promoters of rice. Presented in national Seminar New Vistas in Microbiology, held at M A College, Kothamangalam, Kerala on 16-17 october, 2014.
23. Shabanamol S, Elizabeth Mary John and M.S.jisha. Induction of phenolics against *Rhizoctonia solani* and plant growth promotion mediated by endophytic diazotrophic *Lysinibacillus sphearicus* in *oryza sativa* 26th Kerala Science Congress 28-31 January, 2014 held at Pookode, Wayanad

Chapters In Books: 2

1. Elizabeth Mary John, Shabanamol S., Jisha M.S., (2015) "Pesticide Degradation: Practical Approaches, Environmental Science and Engineering series, published by Studium Press LLC, USA.
2. Divya K and Jisha M S., (2016) Chitosan Nanoparticles: A Novel Antimicrobial Agent, Therapeutic Nanostructures (I-V) Multi-Volume SET, Edited by: Alexandru Mihai GRUMEZESCU (<http://grumezescu.com/>)

Edited Books: 1

1. Seminar proceedings of National Seminar on Plant science Technology for sustainable world at National Institute of Plant Science Technology (NIPST), M.G. University, Kottayam on February 25th -26th 2016. ISBN : 978-81-930000-8-3

Books Authored with ISBN: 1

1. Seminar proceedings of National Seminar on Plant science Technology for sustainable world at National Institute of Plant Science Technology (NIPST), M.G. University, Kottayam on February 25th -26th 2016 **ISBN : 978-81-930000-8-3**

UNIVERSITY CENTRE FOR INTERNATIONAL CO-OPERATION (UCIC)

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 11 |
| 2. | Monographs | 1 |
| 3. | Conference Proceedings | 5 |
| 4. | Chapters in Books | 5 |
| 5. | Edited Books | 2 |
| 6. | Books authored with ISBN | 0 |
| 7. | Books authored without ISBN | 0 |
| 8. | Articles in popular publications | 0 |
| | Total | 24 |

Refereed Journal Publications : 11

1. Sajimon Abraham. and Sojan Lal, P. Trajectory Clustering of Network Constrained Moving Objects and Applications to Web Usage Mining. In the Interdisciplinary journal *Accuman* published by Marian College, Kuttikkanam, ISBN 0975-6981, 2011.
2. Sajimon Abraham, P. Sojan Lal, *Spatio-Temporal Similarity of Network Constrained Moving object Trajectories using Sequence Alignment of travel locations*. Published in Elsevier Journal of Transportation Network Research, Part C, April 2012. (Impact factor 1.9).
3. Paper Titled “Optimization techniques in RFID data management in Supply Chain” published in “International Journal of Computer Applications”, Jan 2014.
4. C. Vinodan (co-author) (2012): The EU–India Relations: Towards A New Partnership in the Asian Century, *Journal of Asian Politics*, Vol. 11, No. 2.
5. C. Vinodan (2012): “Strategic Dimensions of China’s South China Sea Policy: Implications for International Relations, *South Asian Journal of Diplomacy*, Vol. 3, No. 3.
6. C. Vinodan (co-author) (2013) Regionalism and Regional Cooperation in International Relations: A Conceptual Analysis, *Online International Interdisciplinary Research Journal*, Volume-III, Issue-VI, Nov-December.
7. C. Vinodan (2013): “The Rise of China and the Maritime Dispute in the South China Sea,” *Southeast Asian Journal of Social and Political Issues*, Vol.1, No.3.
8. C. Vinodan (co-author) (2013): “Energy Security: A Multivariate Analysis of Emerging Trends and Implications for South Asia,” *India Quarterly*, Dec 69: 383-400.
9. C. Vinodan (2014): “China and the Emerging Global Energy System,” *Journal of International Studies*, Vol.10.

10. C.Vinodan & Rajesh Kuniyil (2015): "Energy Security and Climate Change: Problems and Prospects in India-Australia Relations," *ISDA Journal*, Vol.10.
11. C.Vinodan & Rajesh Kuniyil (2015): "Energy Security and Climate Change: Problems and Prospects in India-Australia Relations," *ISDA Journal*, Vol.10.

Monographs: 1

1. Published an International Students Admission Brochure in 2015 with the financial support from Kerala State Higher Education Council

Conference Proceedings: 5

1. Sajimon Abraham. And Sojanlal, P.WEBTRACCLUS – A Spatio-Temporal Trajectory Clustering Tool For Personalization In Healthcare Web Portals. In Proceedings Of ACM PETRA Held At Greece, 2011.
2. Sajimon Abraham, P. Sojanlal, Dais George, Trajectory Similarity In Spatio-Temporal Data Bases And Applications In Climatologically Study, Accepted In The Proceedings Of 24th Kerala Science Congress, To Be Held At Rubber Board, Kottayam On 29-31 January 2012.
3. Mobility Mining Techniques For Big Data Analysis In Supply Chain Traffic" Co-Authoring With Prof.Sajimon Abraham, 3rd IIMA International Conference On Advanced Data Analysis, Business Analytics And Intelligence April 13-14, 2013, IIM Ahmedabad.
4. Paper Titled "Big Data Analysis Using In-Memory Techniques" Published In The Proceeding Of The National Seminar On Computing And Communications Held At Sri Bhudha College, Pattoor, March 2014.
5. Sajimon Abraham, Lumy Joseph, "Role Of Cloud Computing In Educational Data Mining" Published In The U.G.C Sponsored National Conference Proceedings organized by M.E.S College, Nedumkandam on 15-17 June 2015.

Chapters In Books: 5

1. Sajimon Abraham. and Sojan Lal, P. Spatio-Temporal Similarity of Web User Session Trajectories with Applications to Dark Web Environment. In the Proceedings of IEEE Asia Pacific Workshop on Intelligence and Security Informatics (PAISI 11), Springer-Verlag Series of Lecture notes in Computer Science, (LNCS), ISBN : 978-3-642-22038-8, Vol, 6749, Beijing, China, 2011, 1-10. Won the second best paper award
2. Sajimon Abraham. and Sojan Lal, P. Spatio-Temporal Queries and Triggers in Moving Object Databases with Advantageous of Dimension Reduction. In the Book on Communication and Computing, School of Computer Sciences, Mahatma Gandhi University, Kottayam, 2011. Won the second best paper award
3. C.Vinodan (2013): "China, US and South China Sea Dispute," in Mohanan B. Pillai (ed.), *India's National Security: Concerns and Strategies*, New Century Publishers, New Delhi.
4. C. Vinodan (2015): Regional Connectivity and Energy Security in South Asia: Challenges and Opportunities, in Mohanan B. Pillai & Alduri Subramanyam Raju (Eds.), *Connectivity and Integration in South Asia*, Kalpaz Publications, New Delhi.

5. C. Vinodan (2015): Nuclea South Asia; Strategic and Security Dimensions, in Suresh R (Ed.), The Changing Dimensions of Security: Indias Security Policy Options, Vij Books Ind Pvt Ltd, New Delhi. ISBN 978-93-84464-80-6.

Edited Books: 2

1. C.Vinodan (ed.)(2014), *South Asia in the Globalised World*, New Delhi: New Century Publishers.
2. C.Vinodan (2015): *Energy Security Choices for India*, New Delhi: New Century Publishers.

Publication details of Constituent Colleges/Institution

UNIVERSITY COLLEGE OF ENGINEERING

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 26 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 10 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 36 |

Refereed Journal Publications-26

1. Ankur Nagori, P.N. Joshi and C.N. Ravisankar, Development of Solar Dryer with Electrical Energy Back up for Hygienic Drying of fish and fish products., Journal – Fishery Technology, Vol. 51, No. 2, April 2014 p.p -112-116.
2. Neeba George and B. Lethakumary, A Compact microstrip antenna for UWB applications, Journal -Wiley Inter Science –Microwave &Optical Technology, Vol. 57, No. 3, March 2015 p.p -621-624.
3. Sharon M. Jose and B Lethakumary, CPW-fed step-shaped microstrip antenna for UWB applications, Wiley Inter Science- Microwave &Optical Technology, Vol. 57, No. 3, March 2015, p.p- 589-591
4. Savitha Suresh andLethakumary B., Simulative Analysis of Channel and QOS Aware Scheduler to Enhance the Capacity of Multimedia LTE Networks, Journal - International Journal of Advanced Research in Engineering and Technology, Vol.6, issue 5, May 2015, pages -1-8
5. Merlin Thomas, Lethakumary B, and Roshan Jacob, Performance comparison of multi-component signals using WVD and Cohen's class variants, IEEE Xplorer, May 2012, pages -717-722
6. Kavitha.N.Nair, A.Unnikrishnan and B. Lethakumary, Demonstration of an Observation tool to evaluate the performance of ICA technique, IEEE Xplorer, May 2012, pages- 1-6
7. Shareena E.M, Abdulla P.and B Lethakumary, Analysis of Wire transmitting antenna, IEEE Xplorer, April 2012,pages 1-7

8. Leny Mathew and Sunil K. Narayanankutty, Synthesis, characterisation, and performance of nanosilica as filler in natural rubber compound; (Journal of Rubber Research 13 (1), 2010, 27-43)
9. Leny Mathew and Sunil K. Narayanankutty, Hybrid composite based on nanosilica-Nylon 6 short fiber-styrene butadiene rubber- A study on the effect of fillers and bonding agent; (Progresses in Rubber - Plastics and Recycling Technology' Vol. 26, No. 1, 1-20, 2010.)
10. Leny Mathew and Sunil K. Narayanankutty, Dynamic mechanical behavior of elastomeric hybrid composite based on nanosilica and short Nylon-6 fiber. (Progresses in Rubber Plastics and Recycling Technology, 26, (3) 2010)
11. Leny Mathew and Sunil K. Narayanankutty, Nanosilica based Nylon-6 -chloroprene short fiber composite. (Rubber Science, 28(2): 197-209, 2015)
12. Jose Sebastian, Eby T Thachil, Jobin Job Mathen, Augustine J. Edakkara, Nelson Kuriakose, Joby Sebastian, Ginson P. Joseph (2015) Preparation and Characterization of ZnSe/EVA Nanocomposites for Photovoltaic Modules: Journal of Minerals and Materials Characterization and Engineering 3, 215-224.
13. Jose Sebastian, Eby T. Thachil, Jobin Job Mathen, J. Madhavan, Prince Thomas, Jacob Philip, M.S. Jayalakshmy, Shahrom Mahmud, Ginson P. Joseph (2015) Enhancement in the Electrical and Thermal Properties of Ethylene Vinyl Acetate (EVA) Co-Polymer by Zinc Oxide Nanoparticles: Open Journal of Composite Materials 5, 79-91 .
14. P. Mullai, M. K. Yogeswari, K. Saravanakumar, Bibin Oommen and K. Kathiresan, Physico-chemical characteristics of Uppanar River of Cuddalore District, East Coast of India, International journal of chemical science. 2010, 8(5), p495-p506.
15. P. Mullai, Bibin Oommen, M. K. Yogeswari Dispersion prediction in the Uppanar River of South East Coast of India, International journal of water sustainability, vol 3, issue 1, March 2013, p25-p43
16. P. Mullai, M. K. Yogeswari, Bibin Oommen, K. Saravanakumar and K. Kathiresan Application of QUASAR Modelling in the Uppanar River of Cuddalore District of Tamil Nadu. International journal of environmental Engg Research, 2012, Dec 17 (S1); p53-p56.
17. Dona Maria Mathew, K. Vinoth Kumar, Nithin T. Abraham, Vicky Jose, "Simulation Analysis of AC/DC Adapter Under Zero No-load Power Consumption using Simulink Process", International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 4, No. 3, September 2014.
18. Nithin T. Abraham, K. Vinoth Kumar, Vicky Jose, Dona Maria Mathew, S. Suresh Kumar, "SAR Algorithm Method in Photovoltaic System using MPPT", International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 3, No. 4, December 2013, pp. 438~443.
19. Vicky Jose, K. Vinoth Kumar, S. Suresh Kumar, Nithin T. Abraham, Dona Maria Mathew, "Analysis of Direct Torque Control of Industrial Drives using Zone-shifting SVM." International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 4, No. 3, September 2014.

20. Divya S, G.Umamaheswari, G Balaji "Voltage Unbalance Elimination in Multilevel Inverter using Coupled Inductor and Feedback Control", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering" Vol. 3, Issue 4, April 2014.
21. Divya S, Jibin Joseph "A Brief Review on Recent Trends in Alternative Sources of Energy" World Academy of Science, Engineering and Technology International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering Vol:8, No:2, 2014
22. Jibin Joseph, Divya S., "A Novel ANPCI-DSTATCOM for Power Quality Improvement in Distribution System", International Journal of Science, Engineering and Technology Research (IJSETR) Volume 3 Issue 4 April-2014.
23. Nimmy Berchmans, V. Geetha "A ZVZCS Full Bridge Converter With High Voltage Gain by Solar Energy Source", International Journal of Scientific and Technology Research (IJSTR) Volume 3 Issue 4 April 2014.
24. Mayamol S. ,R. Mullaiventhan "A High Voltage Gain DC-DC Converter For Distributed Generation Systems With MPPT Controller", International Journal Of Applied Research (IJAR) Volume 4 Issue 5 May 2014.
25. V.G. Geethamma, Nandakumar Kalarikkal and S. Thomas, Polymer products and environment, The Economic Times Polymers, December 2014- January 2015, p 54-56
26. V. G. Geethamma, R. Asaletha, Nandakumar Kalarikkal and S. Thomas, Vibration and Sound Damping in Polymers , Resonance: Journal of Science Education, Sept 2014, p 821-833

Conference Proceedings- 10

1. Leny Mathew and Sunil K. Narayanankutty, International Conference on Advances in Polymer Technology, APT '10, February 27-28, 2010. Department of Polymer Science and Rubber Technology, Cochin University of science and Technology, Kochi, India.
2. Leny Mathew and Sunil K. Narayanankutty, National Conference on Advances in Nanoscience & Technology NANOSAT-10, April 22-23, 2010, Amal Jyothi College of Engineering, Kanjirapally, Kottayam, India
3. Electrical and Thermal behaviour of ZnO / EVA Polymer Nanocomposites : Jose Sebastian, Augustine J. Edakkara, Jobin Job Mathen, Joseph Madhavan, S.E Al Garni , Ginson P. Joseph; Sixth International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA 14), 27th July – 1st August 2014, organized by The Faculty of Engineering at the University of Leeds, England, UK.
4. Dispersion of ZnO into Polyethylene Vinyl Acetate and electrical and thermal behaviour of their Nanocomposites: Jose Sebastian, Augustine J. Edakkara, Jobin Job Mathen, Ginson P. Joseph; International Materials, Industrial and Manufacturing Engineering Conference (MIMEC 2013) during 4-6 December 2013, Johor Bahru, Malaysia Organized by Dept. of Materials, Manufacturing and Industrial Engineering, Universiti of Teknologi Malaysia.

5. Synthesis and characterizations of Polyethylene Vinyl Acetate/ ZnSe nanocomposites: Jobin Job Mathen Jose Sebastian, Augustine J.Edakkara, Joseph Madhavan, Ginson P. Joseph; International Materials, Industrial and Manufacturing Engineering Conference (MIMEC 2013) during 4-6 December 2013, Johor Bahru, Malaysia Organized by Dept. of Materials, Manufacturing and Industrial Engineering, Universiti of Teknologi Malaysia.
6. Studies on the Optical, Thermal and Electrical behavior of Polystyrene – ZnSe Nanocomposite for Electronics Applications; Jose Sebastian, Eby T Thachil, Jacob Philip, Santhosh Kumar R, Prince Thomas, Ginson P. Joseph; International conference on Emerging Advanced Nanomaterials (ICEAN 2012) during 22-25 October 2012, Brisbane, Australia.
7. Synthesis and Physico-Chemical properties of Poly Vinyl Alcohol – CdSe Nanocomposite as Electrically Conductive Adhesive ; Jose Sebastian, Eby T Thachil, Jacob Philip, G. Ramalingam, Augustine J Edakkara, Jobin Job Mathen, Ginson P. Joseph; International conference on Emerging Advanced Nanomaterials (ICEAN 2012) during 22-25 October 2012, Brisbane, Australia.
8. Geethamma V.G., “US-India Fulbright Fellowships” Brain storming session on faculty development, September, 2013, organized by Centre for Nanoscience and Nanotechnology, M.G. University, Kerala.
9. Geethamma V.G., Rico S., Kazuki S. and John A. Rogers, “Moth eye is our inspiration: we’re trying to mimic its surface...”, Seminar on Nanostructured Materials, March 28, 2013, organized by Centre for Nanoscience and Nanotechnology, M.G. University, Kerala.
10. Geethamma V.G., Rico S., Kazuki S., D. Chanda and John A. Rogers, “It’s about a research that makes things dull...” India-Israel Meeting on Materials Science and Nanoscience (IIMMN 2013), January 31- February 1, 2013, jointly organized by Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, and Centre for Nanoscience and Nanotechnology, M.G. University, Kerala.

SCHOOL OF TECHNOLOGY AND APPLIED SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 39 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 34 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 73 |

Refereed Journal Publications -39

1. Melvi Chandy, K Shreekrishna Kumar , U. S. Sarma , M. S. Latha , “Metal Coated Coir Fiber for Smart Textile Applications”, J. cord (2010),26(1).
2. Vishwanath R Hulipalled, K Shreekrishna Kumar, Venugopal K R, S S Iyengarand L M Patnaik, “ Similarity Pattern Search for Stream Time Series Image Data using Cluster Median Approach”,J. International Journal of Information Processing, 6(3), 98-107, 2012. ISSN : 0973-8215 IK International Publishing House Pvt. Ltd., New Delhi, India.
3. Vishwanath R H, Leena S, Srikantaiah K C, K Shreekrishna Kumar, P Deepa Shenoy, Venugopal, K R, S S Iyengarand L M Patnaik, “ Forecasting Stock Time-Series using Data Approximation and Pattern Sequence Similarity”, International Journal of Information Processing (2013) arXiv:1309.2517v1 [cs.DB] 10 Sep 2013.
4. Melvi Chandy, K Shreekrishna Kumar , U. S. Sarma , M. S. Latha , “Characterization of Silver deposited Coir Fiber by Magnetron Sputtering”. J.cord (2015), 31(1).
5. Melvi Chandy, K Shreekrishna Kumar, U. S. Sarma , M. S. Latha , “Thin film Aluminium coated coir fibers deposited by Magnetron Sputtering”. Int. J. of Advanced Research (2015). Volume 3, Issue 3, 703-706 . ISSN 2320-5407.
6. Melvi Chandy, U. S. Sarma , M. S. Latha , K Shreekrishna Kumar, “UV protection ability of silver coated coir fabric by magnetron sputtering”,J. Indian Journal of Applied Research (2015) Volume : 5 Issue : 2 Feb 2015 ISSN - 2249-555X
7. Melvi Chandy, K Shreekrishna Kumar, U. S. Sarma , M. S. Latha , K. P. V. Anil Kumar, “Characterisations of the electron beam impact on natural coir fibers”. Int. J. of Advanced Research(2015), Volume 3, Issue 8, 140-145. ISSN 2320-5407.

8. V Sasidharan, CM Joseph, KN Narayanan Unni and K Shreekrishnakumar, "Structural Studies on Quaterthiophene (QT) Thin Films". *Int. J. of Advanced Research* (2015) Volume 3, Issue 10 , 778 – 788. ISSN 2320-5407.
9. Bindu.M.S, Sumam Mary Idicula, "Named Entity Recognizer Employing Multiclass Support Vector Machines for the Development of Question Answering Systems", *International Journal of Computer Applications (IJCA)*, Vol.25, No.10, July 2011
10. Bindu.M.S, Sumam Mary Idicula, "High Order Conditional Random Field Based Part of Speech Tagger for Malayalam -a Highly Agglutinative Language", *International Journal of Advanced Research in Computer Science (IJARCS)*, Vol.2, No.5, Sep. 2011
11. Bindu.M.S, Sumam Mary Idicula, "A Hybrid Model for Phrase Chunking Employing Artificial Immunity System and Rule Based Methods", *International Journal of Artificial Intelligence and Applications (IJAIA)*, Vol 2,No.4 October 2011.
12. Bindu.M.S, Sumam Mary Idicula, "Named Entity Identifier for Malayalam Using Linguistic Principles Employing Statistical Methods", *International Journal of Computer Science Issues (IJCSI)*, vol.8, No.4 July 2011.
13. Nishad A, & Dr. Bindu K, *International Journal of Computer Technology and Electronics Engineering (IJCTEE)* Volume 3, Issue 6, December 2013 ISSN 2249-6343
14. P.V. Anil Kumar, S. Anilkumar, K.T. Varughese, Sabu Thomas, "Separation of n-hexane/acetone mixtures by pervaporation using high density polyethylene/ethylene propylene diene terpolymer rubber blend membranes", *J. Hazard. Mater.* 199-200, 336, 2012.
15. P. V. Anil Kumar, S. Anilkumar, K. T. Varughese, Sabu Thomas, "Transport behavior of aromatic hydrocarbons through high density polyethylene/ ethylene propylene diene terpolymer blends" , *J. Polym. Res.*, 19, 9794, 2012.
16. P.V. Anil Kumar, S. Anilkumar, K.T. Varughese, Sabu Thomas, "Transport properties of high-density polyethylene/ethylene propylene diene terpolymer blends, *J. Mater. Sci.*, 47, 3293, 2012.
17. Anil Kumar P.V., Anil Kumar S., K.T. Varughese and Sabu Thomas, "Permeation of Chlorinated Hydrocarbon Vapors through High Density Polyethylene/ Ethylene Propylene Diene Terpolymer Rubber Blends", *Sep.Sci. Techol.*47, 6, 2013.
18. Anil Kumar P.V., K.T. Varughese, Sabu Thomas, "Effect of Rubber-Filler Interaction on Transport of Aromatic Liquids through High Density Polyethylene/Ethylene Propylene Diene Terpolymer Rubber Blends", *Ind. Eng. Chem. Res.*, 51, 6697, 2012.
19. Anil Kumar P.V., Anilkumar S., K.T.Varughese and Sabu Thomas "Permeation of nitrogen and oxygen gases through ethylene propylene diene terpolymer and high density polyethylene/ ethylene propylene diene terpolymer blend membranes", *Sep. Sci. Technol.*, 48, 1, 2013.
20. Jeevan Mani, S. Krishnakumar, "Comparative study of DCT based image compression on hexagonal and conventional square picture image", *International journal of computer applications*, Vol. 43, April 2012. INDEXED IN: EBSCO, GOOGLE SCHOLAR, INFORMATICS, PROQUEST CSA TECHNOLOGY RESEARCH DATABASE, NASA ADS, CITESEER, ETC.

21. Jeevan Mani, S. Krishnakumar “Performance comparison of DCT based image compression on hexagonal and rectangular sampling grid”, , Journal of image and graphics, Vol.1 number 3, Sep 2013.INDEXED IN GOOGLE SCHOLAR, IET INSPEC.
22. Rohith Krishnan R. and S. Krishnakumar ,“Practical Biasing Design for Analog Circuits”. International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181,Vol. 3 Issue 7, July – 2014, GOOGLE SCHOLAR IMPACT FACTOR 1.76 INDEXED IN GOOGLE SCHOLAR, RESESRCH BIBLE,SCIRUS, GETCITED etc.
23. Rasiq S.M. and S. Krishnakumar. “Parallel Processing Technique for High Speed Object Recognition”, International Journal of Computer Applications (0975 – 8887) Volume 99– No.4, August 2014.
24. Rasiq S.M. and S. Krishnakumar. “Parallel Processing Technique for High Speed Image Segmentation Using Color”, International Journal of Electronics and Communication Engineering & Technology, Volume 5, Issue 12 ,December 2014.
25. Rohith Krishnan. R, S. Krishnakumar, “A method to modify/correct the performance of amplifiers”, Reza Hashemian, International Journal Of Scientific & Technology Research, Vol. 4, Issue 01, Jan 2015.
26. “De-noising with differential bi-orthogonal spline wavelets using DWT”, T.N Tilak, S. Krishnakumar, International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181,Vol. 4 Issue 4, April – 2015
27. T.N Tilak, S. Krishnakumar “De-noising with Spline wavelets and SWT”, International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181,Vol. 4 Issue 12, December – 2015.
28. T.N. Tilak, S. Krishnakumar, “Effectiveness of Symlets in Denoising fingerprint images”, international journal of computer science and engineering, ISSN 2347-2693,Vol 3, Issue 12, December 2015.
29. Vijo m joy, S. Krishnakumar“Efficient load scheduling method for power management”, IJSTR vol-5, issue 1, jan 2016..
30. Sreekala KS and S. Krishnakumar, “Pattern and position dependent gate leakage and reduction technique”, ICTACT Journal on micro electronics, vol 1, issue 3, oct 2015, issn 2395-1672.
31. K.M. Jeevan and S. Krishnakumar, wavelet based method for removing Gaussian noise by representing images in hexagonal lattice, ICTACT journal on image and video processing, may 2016, vol 6, issue 4.
32. Eldhose N.V, Pooja K. Das, Sooraj N.S, Reshma Rajan. “Lossless compression of ECG signal and transmission”, International Journal of Integrated Computer Applications & Research (IJICAR) VOL 1, ISSUE 2, 2015.
33. Sanu Thomas and Thomaskutty Mathew. “Event region refinement in a grid based wireless sensor network using repeated spatial interpolation” International Journal of Computer Science, Engineering and Technology, Vol. 3, Issue 9, 297-302, Sept. 2013
34. Parvathy A.R and. ThomasKutty Mathew, REDUCTION IN SIZE OF THE MICROSTRIP PATCH ANTENNAFOR RFID FREQUENCIES USING FRACTALS, PISER 13, Vol.02, Issue: 03/06 May- June; Bimonthly International Journal,Page(s) 287-29, Progress In Science and Engineering Research Journal. 2014.

35. Jacob Abraham and Thomaskutty Mathew, "Dual band David fractal microstrip patch antenna for GSM and Wi-Max applications", *Wireless Engineering and Technology*, Vol.6, pp. 33-40, 2015.
36. Manju Abraham, K K Aju John, Fijo Jose K, and Thomaskutty Mathew. UHF RFID dipole tag with modified multi-fractal cantor arms for enhanced read range. *Microwave & Optical Technology Letters*, Vol 58, No.5, May 2016
37. Jacob Abraham, Thomaskutty Mathew and Chandroth K Aanandan, "A novel proximity fed gap coupled microstrip patch array for wireless applications", *Progress in Electromagnetic Research C*, Vol. 61, pp. 171-178, 2016
38. Jacob Abraham and Thomaskutty Mathew, "Novel single layer proximity fed gap coupled microstrip patch array for WLAN/Wi-MAX applications in portable devices", *ARPN Journal of Engineering and Applied Sciences*, Vol.11, pp. 10446 – 10453, 2016.
39. Benazir.K.K, Dr. R.Vijayakumar," Integrating height and fingerprint for automated personal authentication" *International Journal of Computer Applications & Information Technology*, ISSN:2278-7720, January (2014), Global Impact Factor 0.405

Conference Proceedings- 34

1. Effect of irradiation on natural lignocellulosic fiber-coir, National conference on Emerging Trends in Spectroscopy – 'SPECTRUM 2012', Marthoma College, Thiruvalla (2012).
2. Abstract: Estimation of the optical constant of cobalt phthalocyanine thin films, National Conference on Emerging Trends in Spectroscopy – 'SPECTRUM 2012', Marthoma College, Thiruvalla (2012).
3. APST: Approximation and Prediction of Stock Time-Series Data Using Pattern Sequence, 7th international Conference on Data mining and Warehousing Bangalore (2013).
4. Estimation of the optical band gap values of annealed Quaterthiophene thin films, An international Conference of Science, Engineering & Management in Education and Research - A global perspective, Dayananda Sagar College of Engineering, Bangalore (2013).
5. Coating on Coir Fabrics with metal particles for textile applications. An international Conference of Science, Engineering & Management in Education and Research - A global perspective, Dayananda Sagar College of Engineering, Bangalore (2013).
6. Characterization of Electron Beam Eradiated Coir Fibres. National Seminar on Nano Structured Materials, N.S.S. Hindu College Changanacherry (2014).
7. V Sasidharan and K Shreekrishnakumar, Optical and Switching studies of Quaterthiophene (QT) Thin Films. Second IEEE International Conference on Emerging Electronics, Indian Institute of Science, Bangalore (2014).
8. Melvi Chandy, U. S. Sarma , M. S. Latha , K Shreekrishna Kumar, "Properties of electron beam irradiated coir fibres", *Proceedings of 27th Kerala Science Congress*, Alappuzha (2015).
9. Surface functionalisation of Copper nano particle coated coir fiber by magnetron sputtering. *Proceeding of National Seminar on Nanoscience & Nanotechnology*, Kerala University, Thiruvananthapuram (2015).

10. Study on morphology & Thermal properties of coir fiber treated with electron beam. Proceedings of National Seminar on Recent Advances in Polymer Technology – ‘RAPT 2K15’, Mahatma Gandhi University, Kottayam (2015).
11. V Sasidharan and K Shreekrishnakumar Structural Studies of Quaterthiophene (QT) Thin Films. National Conference on Role of Innovative Solutions for Medical Sciences (RIESMS-2015). ISBN-978-93-5254-017.
12. V Sasidharan and K Shreekrishnakumar “Optical Characterisation and device application studies of Quaterthiophene (QT) Thin Films. Proceedings of 5th International Conference on Materials Processing and Characterization, Bengaluru. Materials Today: Proceedings 00 (2015) 000–000.
13. A Review on Fabrication of Organic Field Effect Transistors. Proceedings of National Conference on Sustainable Emerging Intelligent Technologies (SEITCON-2016), Bengaluru (2016).
14. Electrical Characterization of Pentacene Based Organic Field Effect Transistor using OTM software. Proceedings of National Conference on Sustainable Emerging Intelligent Technologies (SEITCON-2016), Bengaluru (2016).
15. Review on Different Deposition Techniques for Organic Thin Film Transistor Fabrication. 9th National Level Science Symposium on Recent Trends in Science & Technology, Rajkot 2016.
16. Sreekala K.S, , S. Krishnakumar ,“Impact Of Temperature and Velocity Dependence On Drain Current in MOSFET with Channel Scaling” , Proceeding’s of National Conference on Current Advancements in Communication, Control and Instrumentation Engineering, 2012 ,FISAT College of Engineering ,Cochin.
17. Sreekala K.S, S. Krishnakumar , “Modelling of On Current In a Scaled MOSFET Considering the Effect of Saturation Velocity and Temperature”, proceeding’s of International Conference on Global Innovation in Technology and Sciences (ICGITS), Saintgits College Of Engineering ,Kottayam-April 2013 .
18. Deepak P, S. Krishnakumar and Smitha Suresh, “Video Surveillance using image processing”, ICCPCT -14 Nagercoil on March 21st, 2014.Available in IEEE XPLORE.
19. Rasiq S.M., S. Krishnakumar. ,“Parallel Processors for High Speed Image multiple objects recognition”, Proceedings of IEEE international conference on Contemporary Computing and Informatics (IC3I, 2014) P.651-656; This work was also included in IEEE Xplore Digital Library,
20. Jeevan K.M. and S. Krishnakumar , “Compression of Images Represented in Hexagonal Lattice Using Wavelet and Gabor Filter”, IC3I-14, Mysore on Nov 26th, 2014. This paper is also published in IEEE XPLORE 978-1-4799-6629-5/14/\$31.00_c 2014 IEEE, P. 609-613.
21. Deepak P, S. Krishnakumar and Smitha Suresh. , “Human recognition for Surveillance system using bounding box”, IC3I-14, Mysore on Nov 26th, 2014. This work was also included in IEEE Xplore Digital Library 978-1-4799-6629-5/14/\$31.00_c 2014 IEEE, P. 851-856.

22. Rohith Krishnan R, S Krishnakumar, "A Linear Like Methodology for Source Allocation and Biasing Design of Non-Linear Devices in Analog Circuits", Proceedings of ICACC-2015 September, Kochi. Available in IEEE Xplore, DOI 10.1109/ICACC.2015.21.
23. Tiak.T.N & S.Krishnakumar, "Symlets of high order in denoising fingerprint images", 25th Swadeshi science congress 16th-18th December 2015, Sree Sankaracharya university of Sanskrit, Kaladi. Abstract page no. 196-197.
24. Bindu.M.S, Sumam Mary Idicula, "Malayalam Text Classification Using an Enhanced N-gram Based Vector Space Model for Health Applications", The third International Conference on Semantic E-Business and Enterprise Computing, 15-17 September, 2010. Organised by AJCE, Kanjirappally and Kingston University, UK
25. Thomaskutty Mathew, John Batchelor and M. A Ziai. "RCS and Read Range of UHF RFID tag", Asia-Pacific EMC, Beijing during 12-16 April 2010, pp 467-469.
26. K.K Aju John, Jacob Abraham and Thomaskutty Mathew. "Dual band dipole antenna for RFID/WSN applications" International Conference on Electronics and Communication Systems 2014. pp113-115.
27. Jacob Abraham, K.K Aju John and Thomaskutty Mathew. "Microstrip antenna based on Durer pentagon fractal patch for multi-band wireless applications" International Conference on Information Communication & Embedded Systems 2014. Pp3834-6, 2014
28. Mr. Jacob Abraham, Mr. Aju John K K, Dr. Thomaskutty Mathew MICROSTRIP ANTENNA BASED ON DURER PENTAGON FRACTAL PATCH FOR MULTIBAND WIRELESS APPLICATIONS, International Conference on Information Communication & Embedded Systems (ICICES 2014) ISBN No.978-1-4799-3834-6/14/2014 IEEE
29. Jibish Mathew, K K Aju John, Manju Abraham, Thomaskutty Mathew, "A Modified Bow-Tie Antenna for Dual Band RFID Applications, IEEE Sponsored 9th International Conference on Intelligent Systems and Control (ISCO) 2015
30. Kkaju John, manju Abraham, and Thomaskutty Mathew "A UHF RFID TAG BASED ON MODIFIED FOLDED DIPOLE ANTENNA, Proceedings of International symposium on antennas and propagation APSYM 2014
31. Manju Abraham fijo josek, and Thomaskutty Mathew, "A novel uhf rfid tag based on multi fractal cantor structure for enhanced read range, Proceedings of International symposium on antennas and propagation APSYM 2014
32. Anju Maria Vishnupriya V Aju John K.K Dr. Thomaskutty Mathew Dual Band Circularly Polarized Truncated Patch Antenna For RFID Reader and WiMAX Applications, IEEE SPONSORED SECOND INTERNATIONAL CONFERENCE ON ELECTRONICS AND COMMUNICATION SYSTEMS (ICECS '2015)
33. K K Aju John, Jacob Abraham, Thomaskutty Mathew, "Dual Band Dipole Antenna for RFID/WSN Applications, 2014 International Conference on Electronics and Communication System (ICECS -2014)
34. Jacob Abraham and Thomaskutty Mathew. "David Fractal Antenna for Multi-band Wireless Communication" International Conference on Electronic Design 2014, Malasia, 978-1-4799-6103-0/14/\$31.00 ©2014 IEEE

SCHOOL OF APPLIED LIFE SCIENCES

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 07 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 07 |

Refereed Journal Publications: 07

1. Jean Jose J., P. Udayakumar, M. P. Deepak, B. R. Rajesh, K. N. Babu and A. Chandran. 2011. Assemblages of the Marine Polychaete genus *Glycera* (Phyllodocida: Glyceridae) along the Kerala coast, India as an indicator of organic enrichment. *Nature, Environment and Pollution Technology*. 10 (3). 395-398.
2. Udayakumar P, A. Chandran, J. Jean Jose, V. Prasanthan, M. P. Deepak, and K. N. Babu, 2011. Heavy Metal Levels in a benthic polychaete from the Southwest Coast of India. *Chemistry and Ecology* 27 (4): 327 – 336. DOI: 10.1080/02757540.2011.579963.
3. Arunachalam, M., M. Raja, R. L. Mayden, and A. Chandran. 2013. *Olyra asterifera* a new species of olyrid catfish from the Western Ghats, Southern India (Teleostei: Bagridae: Olyrininae) and designation of neotype *Olyra longicaudata* McClelland, 1842 from North Eastern India. *Int. J. Zool. Research*, 3(2): 51-60
4. Arunachalam, M., M. Raja, S. Nandagopal, and A. Chandran. 2014. Range extension of the ornamental fish species *Puntius chalakkudiensis* from southern Kerala river, India. *Res. Rev. J. Zool. Sci.*, 2(1): 20-24
5. Jean Jose J., A. Chandran, Lincy Alex and A. P. Lipton. 2014. Notes on the Egg Bearing Cyclopoid Copepod, *Oithona similis* Claus, 1866 of the Arabian Sea. *Notulae Scientia Biologicae*. 6 (1): 31–35.
6. Udayakumar P, A. Chandran, J. Jean Jose, R. Shibu and K. Anoop Krishnan. 2014. Nutrient - Characteristics, Stoichiometry and Response Stimulus of Phytoplankton Biomass along the Southwest Coastal Waters of India. *Journal of Marine Biology & Oceanography*. 3: 3. <http://dx.doi.org/10.4172/2324-8661.1000129>.

7. Jean Jose .J, Lincy Alex, A. P. Lipton and A. Chandran, 2016. Developmental stages observed during experimental culture of the egg bearing cyclopoid copepod *Oithona similis* (Claus, 1866). Indian Journal of Geo-Marine Sciences. 45 (2): 333-337.

MAHATMA GANDHI UNIVERSITY COLLEGE OF TEACHER EDUCATION

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 05 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 04 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 09 |

Refereed Journal Publications- 05

1. PARIPEX-Indian Journal of Research-Peer Reviewed and Referred International Journal ISSN-2250-1991 Index Copernicus IC Value -77.65 –IMPACT FACTOR-5.215
Title- Death anxiety among student teachers in relation to their frustration and Psycho physical distress
2. Santhom Journal of Edu Race-A peer reviewed educational journal –ISSN-2455-6947-
Title—Meta cognition of English Language students at Degree level in relation to their language creativity
3. PIJR-PARIPEX-Indian Journal of Research-Manuscript accepted for November 2016-Issue
4. Published Article in Educational Herald topic A study on the relationship between Stress and Natural Intelligence among higher secondary school students' Published by Sabari College of Education Puducherry, Research Journal Vol. 1, Issue-1, January 2012. (National Publication)
5. Published Article in Compendium the titled An inquiry into the international E-learning scenario in the premises of quality enhancement in teacher education SPFERD & Global Health Care Publications, Thiruvananthapuram ISBN No. 978-81-926803-0-9, 2013

Books authored with ISBN: 4

1. Published one book titled “Adolescent Stress; Effects and Solutions” Published by Zodiac Publishing Company (2016), Thiruvananthapuram. (in Press) ISBN No. 971-81-928433-9-1.
2. Published one book titled “Learning and application” presented a chapter titled “A Study on the Awareness of Human Rights Education in (B. Ed level) Teacher Trainees’ published by University of Malaya Department of Indian Studies in Collaboration with Anuragam Publications Chennai ISBN 978-93-81568-58-3 (International Publication)
3. Published one book “Challenges in Teaching and Learning” presented a chapter A Study on the Relationship between Academic Stress and Socio-Economic Status of Secondary School Students” published by University of Malaya Department of Indian Studies in Collaboration with Anuragam Publications Chennai ISBN no. 978-93-81568-96-5 (International Publication)
4. Published one book titled “Human Rights Education” on the topic ‘Social Sensitivity towards Economic and Educational backwardness of people residing at Pathanamthitta District’ in collaboration with Kerala University College of Teacher Education Thiruvananthapuram, Kerala and Sponsored by National human Rights Commission New Delhi. ISBN No. 978-93-82570-44-8. (National Publication)

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

3.4.2 Details of publications by the faculty

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 4 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 4 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 8 |

Refereed Journal Publications- 04

1. I Anish, U Harsha, and K C Abdul Majeed “Use and Retrieval pattern of E-Health Information by Medical Students in Pathanamthitta District: A Survey.” International Journal of Research in Library science.V2 (2). Jul-Dec 2016.P131--138.
2. I. Anish and I.Arish. “Facility Layout Design of Library Using Systematic Layout Planning.” International Journal of Library and Information Studies. V4 (3). Jul-Sep 2014. p23-27.
3. I.Arish and I. Anish. Library Building Facility Layout Design Using Genetic Algorithm. International Journal of Librarianship and Administration.V5 (3). Nov-2014.p257-262.
4. I Anish and K P Gilna “Use of UGC-INFONET Digital Consortium by the Faculty Members and Research Scholars of University of Calicut, Kerala.” KELPRO BULLETIN. V18 (2). Dec -2014. p58-69.

Conference Proceedings- 04

1. I Anish Proprietary Reference Management Software: An Overview. In National Seminar on Academic Plagiarism and Bibliographic Reference Management software held on 13-14 August 2014 at St.Stephen’s College, Uzhavoor, Kottayam.
2. I Anish and K C Abdul Majeed. “Use of cloud computing applications by students.” In National Conference on Knowledge Discovery and Management held on 30-31 January 2015 at University of Calicut.
3. I Anish, UHarsha, K C Abdul Majeed “Use and Retrieval pattern of E-Health Information by Medical Students in Pathanamthitta District: A Survey.” International Journal of Research in Library science. V 2(2). Jul-Dec 2016.P131--138.

4. I Anish and Gilna K P “Use of UGC-INFONET Digital Consortium by the Faculty Members and Research Scholars of University of Calicut, Kerala. ”KELPRO BULLETIN. V 18(2). Dec -2014. P58-69.



MAHATMA GANDHI UNIVERSITY

Annexure II

QUESTIONNAIRE
TRACK ID: KAUNGN 10096

Submitted to
National Assessment and Accreditation Council
for Re-accreditation

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QUESTIONNAIRE

TRACK ID: KAUNGN 10096



Questionnaire

| | | |
|-----|--|--|
| 1. | Percentage of courses where major syllabus restructuring was carried out during last 3 years | 100% in the Schools and Centres of the University |
| 2. | Temporal Plan in more than 50% of programmes (CBCS/Semester/Annual) | CBCS in all Schools/Centres Semester System – 95% Annual System – 5% |
| 3. | (i) Percentage of teachers with Ph.D. qualification for General Courses (ii) Percentage of teachers with PG qualification for Professional courses (For ex. MD/DM for medicine and ME/MS for engineering) | 87.64% 100% |
| 4. | Student Computer ratio | 1: 0.55 |
| 5. | The number of departments with UGC / SAP / CAS/ DST/ FIST etc, in University | 16 |
| 6. | No. of Post Doctoral Fellows/ Research associates working (i) Locals (ii) Outsiders | 36 29 7 |
| 7. | No. of ongoing research projects per teacher | 0.65 per teacher |
| 8. | No. of completed research projects per teacher (Funded by National/International Agencies) | 1.08 per teacher |
| 9. | Coordinated/Collaborative projects (National and International) | National – 25 International - 14 |
| 10. | National recognitions for faculty for Teaching / Research / Consultancy/ Extension (by reputed / recognised bodies) | <ul style="list-style-type: none"> • 16 awards/recognitions for teachers • 97 research awards/ recognition • 10 recognitions for extension • 12 consultancy programmes |
| 11. | No. of Patents (last 5 Years) | Patents filed – 7 Patents granted - 7 |
| 12. | Output of M. Phil & Ph.D Per faculty | 3 Ph.Ds per faculty 3 M.Phils per faculty |
| 13. | Revenue generated from consultancy per year | Rs. 8.60 lakhs per year |
| 14. | Number of MoUs with international recognized bodies | 46 |



| | | |
|-----|---|---|
| 15. | <ul style="list-style-type: none"> - Publications per faculty - Total number of publications of the University - Percentage of papers published in Journals listed in well known international databases | 18.24 per faculty 1624 70% |
| 16. | Average impact factor of publications | 1.77 |
| 17. | Number of papers with more than 10 citations | 754 |
| 18. | Number of book titles per student (in the central library) excluding book bank | <ul style="list-style-type: none"> • 40.89 books per student (Central Library) • 108 books per student (including libraries in Schools/ Centres) |
| 19. | Percentage of annual allocation for library spent on purchase of journals (national & international) and other Library resources (CDs, Cassettes, etc.) | 23.05 % |
| 20. | No. of national/international conferences / workshops organised per department per year and names of experts participated | <ul style="list-style-type: none"> • Total no. of national/international conferences -148 (0.77 per dept. per year) • Total no. of workshops – 207 (1.08 per dept. per year) (Details attached as Appendix I) |
| 21. | Student performance in national/ international level exams (eg: ET/SLET/GATE/GMAT/CAT,GRE/ TOFEL, Civil Services) | <ul style="list-style-type: none"> • UGC /CSIR/ NET – 249 • GATE – 38 • SLET/SET-55 |
| 22. | Student Teacher Ratio (average across all disciplines) | 15.68 : 1 |
| 23. | University has the following: <ul style="list-style-type: none"> • IQAC • Accreditation by national body • International accreditation/ISO Certification • Academic Administrative Audit (AAA) | Yes Yes No Yes |
| 24. | Outstanding Achievements/ Recognition by faculty/alumni both at national and international level | Achievements by Faculty- 222 Achievements by Students- 89 (Details attached – Appendix II) |
| 25. | Outstanding performance of students in sports/cultural activities at national level | Arjuna Awardees-2 Olympians-4 Asian Games Athletes-3 International Sports Persons-16 Participation at World University Championship-7 Renji Trophy Players-4 Achievements in Interuniversity |



| | | |
|-----|---|--|
| | | Championships-37 Best NSS Volunteer Award at National Level-2 (Details attached) Appendix III |
| 26. | Feedback received from different stakeholders on syllabi etc. <ul style="list-style-type: none"> • Students • Alumni • Parents • Employers • Peers | Yes Yes Yes Yes Yes |
| 27. | Percentages of recommendations of the stakeholders implemented | 70% |
| 28. | Number of interdisciplinary course combinations introduced during last five years as percentage of total programmes | 16 Programmes (9%) |
| 29. | Percentage of Departments conducting tutorial classes | 60% |
| 30. | Number of courses, where continuous assessment of student performances is structured into the system | All courses (182) |
| 31. | Percentage of faculty availing international fellowship for advance studies | 30% |
| 32. | Percentage of courses/programmes that formally integrate e-learning resources from National Programmed Teaching Enhanced Learning (NPTEL) Digital library retrieval | NPTEL site has been linked with the website of the University and the resources are used by the academia. |
| 33. | Percentage of annual budget allocated for augmentation of infrastructure facilities (average of last 3 years) | 26% |
| 34. | Total number of class rooms, seminar halls with LCD/OHP etc. | 68 |
| 35. | Declaration of results within <ul style="list-style-type: none"> • 15 days • 1 month • 2months | 2 months |
| 36. | Average pass percentage of students | PG & M.Phil – 97 % Ph.D – 99% |
| 37. | Average Student Placement Percentage per year | 60% |
| 38. | Percentage of student progression to higher education | UG to PG – 20% PG to M.Phil – 25% PG to Ph.D – 55% Ph.D to Post Doctoral – 7% |



| | | |
|-----|--|---|
| 39. | Average drop-out percentage of students | 1-2% |
| 40. | Unit cost of Education (excluding salary) | Rs.1792.94 |
| 41. | Aggregate percentage of seats filled against seats reserved for various categories as per applicable reservation policy | 82.72% |
| 42. | No. of differently abled persons on roll: Teaching/NonTeaching/ Students | Teaching – 3 Non Teaching – 29 Students – 10 Mentally Challenged persons in vocational rehabilitation centre- 30 |
| 43. | Percentage representation of staff (Teaching/ Non Teaching) in decision making bodies | 90% |
| 44. | Percentage of autonomous colleges to the total number of colleges | 3.83 % |
| 45. | Percentage of teachers from other states | 3% |
| 46. | Donations received for institution of Chairs, endowments, seminars, and lecture series in crores of INR in last 5 years. | Funds received for Erudite Lecture series – Rs.1.35 Crores |
| 47. | Contribution of Alumni /parents (average of last 5 years) for development of university in Lakhs | Rs 1.65 Lakhs per year |
| 48. | Percentage of Female Students | 72.15% |
| 49. | Number of programmes attended/ Organised for professional development of staff per year | 190 per year |
| 50. | Projection of successful innovative practices | (Details attached – Appendix IV |



Mahatma Gandhi University

Priyadarshini Hills P.O., Kottayam, Kerala, India - 686 560. Tel: 91-481-2731001. Fax: 91-481-2731002. E-mail: vc@mgu.ac.in
www.mgu.ac.in

Statement of Compliance

(Central and State Universities)

This is to certify that **Mahatma Gandhi University, Priyadarsini Hills P.O., Kottayam, Kerala** has complied with all the provisions of the following Regulations governing it :

- UGC Regulations on Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education 2010 and further amendments, if any, notified by the UGC.
- UGC Regulation on Minimum Standards and Procedure for the Award of M.Phil /Ph.D Degree, Regulations 2009 and further amendments, if any, notified by the UGC.
- UGC (Affiliation of Colleges by Universities) Regulations, 2012 and further amendments, if any notified by the UGC.

Any false or misleading information provided by the institution, will be viewed seriously by NAAC and the accreditation given is liable to be withdrawn.

Name and Signature with seal

of the Vice- Chancellor

DR. BABU SEBASTIAN
VICE-CHANCELLOR
MAHATMA GANDHI UNIVERSITY
KOTTAYAM-686 560

Date: 08.05.2017

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APPENDICES



Appendix I (Question-20)

| Number of national/international conferences organized per department per year Total-148 | | | |
|---|--|--|---|
| Sl. No | Seminar/Conferences | Funding agency | Outstanding Participants |
| School of Behavioural Sciences | | | |
| 1. | International Conference on Research Methodology and Scientific Writing. 20-22, December, 2013. (Convenor – Mr. Rajesh) | Confederation of Epidemiological Associations | Dr. Indrajith Banerjee Dr. Padam Simkada Dr. Brijesh Sathian Dr Gamini Premadasa Dr Nishida Chandrasekharan |
| 2. | National Conference on Models of Best Practice in Empowerment of Persons with Disabilities. 16-17, October 2015. (Convenor – Dr. P. T. Baburaj) | National Institute for the Empowerment of Persons with Multiple Disabilities, Chennai. | Dr. Himanshu Das Dr. Rajesh Ramachandran Dr. Jayaraj N. Dr. Neeraja Dr. Dr. K. Balabhaskar |
| 3. | National Seminar on Management of Learning Disabilities. 22.03.2011. (Convenor – Mr. Rajesh E.) | M G University | Dr. Sany Varghese Dr. V. V. Joseph |
| 4. | Seminar on National Trust Act, 1999 and Legal Guardian ship for the parents of individuals with Autism Cerebral palsy mental retardation and multiple disabilities, 15.12.2014(Convener Dr. P. S. Sukumaran) | M G University | Sri.Ajithkumar,IAS Sri.Sureshkumar Sri.P..B.George Sri.Mohandas |
| 5. | National Conference on Models of Best Practice in Empowerment of Persons with Disabilities. 16-17, October 2015. (Convenor – Dr. P. T. Baburaj) | National Institute for the Empowerment of Persons with Multiple Disabilities, Chennai. | Dr. Himanshu Das Dr. Rajesh Ramachandran Dr. Jayaraj N. Dr. Neeraja Dr. Dr. K. Balabhaskar |
| 6. | One day Seminar on “Inclusion Matters: Access and Empowerment of People with all Disabilities”. 03.12.2015 (IUCDS). (Convenor – Dr. P. T. Baburaj) | M G University | Mr. Anish Mohan Mr. Mathew Kanamala |



| School of Bio Sciences | | | |
|-------------------------------|--|---------------------------|---|
| 7. | Two day seminar on “Prevention & management of lifestyle diseases” jointly organized with School of Biosciences & Department of student services (DSS) of M.G.University on 17 th & 18 th March, 2016 | DSS –M.G University | Dr Thomas Varghese Oncology Surgeon, Lakeshore Hospital Dr Vidhyadharan DMO, Kottayam Medical College |
| 8. | One day seminar “Cyber Space & Social Responsibility” jointly organized with School of Biosciences & PTA School of Biosciences on 28 th December 2015 | PTA School of Biosciences | Sri Ajith. DYSP, Kottayam Dr Sunil Cyber Forensic Lab Thiruvananthapuram |
| 9. | Seminar on “Social Responsibility in Animal Birth Control” jointly organized with School of Biosciences & Indian Veterinary Association-Kerala in connection with World Spay Day on 18 th February 2016 | M.G.University | Dr K J Kishore Kumar Vet. Surgeon, Animal Birth Control Division Vet. Public Health Centre, Cochin |
| 10. | Seminar on recent trends in medical molecular biology 03/07/2015. | M.G University | Dr.Uma Shankar and Dr.Keith Davis. Department of Anatomy and cell biology. Indiana University School of medicine |
| 11. | Seminar on Recent Trends in Medical Molecular Biology 03/07/2015 Delivered Talk By Uma Shankar and Dr.Keith | M.G University | |
| 12. | State level seminar on “Stem Cell Therapy and Cancer” jointly organized by Post Graduate Department of Biotechnology SASSNDP YOGAM College Konni and School of Biosciences M.G University on 14 th February 2014.CO- CONVENOR Dr.Keerthi.T.R | M.G University | |
| 13. | Institutional level two day seminar on “Prevention & management of lifestyle diseases” jointly organized with School of Biosciences & Department of student services (DSS) of M.G.University on 17 th & 18 th March, 2016.Convenor- Dr.M.S.Latha | M.G University | |
| 14. | Seminar on “Cyber Space & Social Responsibility” jointly organized with School of Biosciences & PTA School of Biosciences on 28 th December 2015 | M.G University | |



| | | | |
|------------------------------------|--|--|--|
| 15. | Seminar on “Social responsibility in animal birth control” jointly organized with School of Biosciences & Indian Veterinary Association-Kerala in connection with World Spay Day on 18th February 2016 | M.G University | |
| School of Computer Sciences | | | |
| 16. | National Conference on “Computing and Communication” (NCCC 2011) May 26-27, 2011 | M.G.University | Prof. (Dr.) S.K. Sinha, CEDT, Indian Institute of Science, Bangalore Prof. (Dr.) Paulose Jacob, , Cochin university of Science and Technology, Kerala |
| 17. | Computing Paradigms and Bio-informatics (CPBI 2012) January, 2012 | M.G.University | Mr. Mahesh C., FISAT, Angamaly. Prof. (Dr.) Achuth Sankar S. Nair, University of Kerala |
| 18. | National E-conference organized by Amal Jyothi College of Engineering and Technology from 28.01.2016 to 30.01.2016. | KSCSTE in association with ISTE Kerala Section | Dr.Mukta Atrey, IIT Mumbai |
| 19. | National Seminar on Computing and Communication at School of Computer Sciences, December 2013 | M.G.University | Dr. K.P. Soman, Amrita Vishwa Vidyapeetham, Coimbatore Sri. Krishnan Chittoor, S/W Developer, Microsoft India |
| 20. | Seminar on “Systems Programming” on 21.07.2014. | M.G.University | Dr Manjaiah, Professor, Dept. Of Studies and Research in Computer Science, Mangalore University |
| 21. | “Steps 2 Research” at School of Computer Sciences during 19 th - 20 th Sept 2014. | M.G.University | Prof Dr.Sabu Thomas, Director, IIUCNN, M.G.University |
| 22. | International Seminar on “Talking Like Humans” on 6 th December, 2014. | M.G.University | Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland |
| 23. | Seminar on “Image Processing Technologies for Defence Applications” by on 4.12.2015. | M.G.University | Dr. Lekshmi S, Scientist , National Physical and Oceanographic Laboratory (NPOL) |
| 24. | Seminar on “Cyber Crimes” , Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010. | | |
| 25. | The national level seminar by Ms. Easwari PV, Senior consultant , Siemens Information Systems Limited, Bangalore, Dr. Achuth Sankar S Nair, Hon. Director, Centre for Bio-Informatics, Dr. K S M Panicker, Dean, FISAT in December 2011. | | |



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| 26. | Seminar on “Best Programming Practices”, January 20, 2011. | M.G.University | Dr. Ashish Mahabal, California Institute of Technology (Caltech) USA |
| 27. | National Conference on “Computing and Communication (NCCC 2011)”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011. | M.G.University | Prof. (Dr.) S.K. Sinha, CEDT, Indian Institute of Science, Bangalore. Prof. (Dr.) Achuth Sankar S. Nair, University of Kerala. |
| 28. | The national level seminar - December 2011. | M.G.University | Ms. Easwari PV, Information Systems Limited, Bangalore, D. Achuth Sankar S Nair, FISAT |
| 29. | Conference on “Computing Paradigms and Bio-informatics” (CPBI 2012), January, 2012. | M.G.University | Prof. (Dr.) Achuth Sankar S. Nair, University of Kerala. Mahesh C., FISAT, Angamaly. Dr. Radhakrishnan E K, Mahatma Gandhi University. |
| 30. | Seminar on “Computational Intelligence, Robotics and Autonomous Systems”, January 3rd, 2012. | M.G.University | Dr. Prahlad Vadakkeppat, National University of Singapore |
| 31. | Seminar on “Research Topics for M Tech Dissertation” at School of Computer Sciences by Dr Madhu S Nair, Asst.Professor, Dept. of Computer Science, University of Kerala on 18.09.2014. | M.G.University | |
| 32. | National level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012. | M.G.University | Mr. Mahesh, FISAT, Cochin. |
| 33. | The National E-seminar “Steps2Research” at School of Computer Sciences (nodal centre) during 19-20 Sept 2014. | M.G.University | Prof.Dr.D.B. Phatak,IIT Bombay Prof.Dr. Kannan Moudgalya,IIT Bombay Mr. Vijayaraghavan(Former CEO Techno Park ,Member- State Planning Board Kerala Dr.Sahana Murthy, IIT Bombay |
| 34. | International Seminar on “Talking Like Humans” 6 th December 2014. | M.G.University | Christy Alias, Ph.D Scholar, Trinity College, Dublin, Ireland. |
| 35. | Seminar on “Image Processing Technologies for Defence Applications” on 4.12.2015. | M.G.University | Dr. Lekshmi S, Scientist , NPOL |



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| 36. | Seminar on “Research Topics for M Tech Dissertation” at School of Computer Sciences by Dr Madhu S Nair, Asst.Professor, Dept. of Computer Science, University of Kerala on 18.09.2014. | M.G.University | |
| 37. | National Conference on Research in Emerging Areas (NACORE 2016), a National e-conference during 28.01.2016to 30.01.2016. | M.G.University | |
| 38. | Seminar on “Remoteness Function on Median Graphs”, 2nd Dec 2016, by Dr. Ajitha R. S., Post Doctoral Fellow, University of Kerala. | M.G.University | |
| School of Environmental Sciences | | | |
| 39. | LAKE-2012, National Conference on Conservation and Management of Wetland Ecosystems conducted at School of Environmental Sciences, MG University, Kottayam during November 6-8, 2012. | DST, KSCSTE, MG University, Kerala state Biodiversity Board | Dr.T.V.Ramachandra, Indian Institute of Science, Bangalore; Dr. Subash Chandran, Indian Institute of Science, Bangalore; Dr Ligi Philip, Indian Institute of Technology, Madras , Dr.V.N.Rajasekaran Pillai, Executive Vice-President, KSCSTE, Thiruvananthapuram |
| 40. | International conference on Advanced Oxidation Processes (AOP2012) Oct.5-8, 2012, Kottayam | BRNS, KSCSTE, DRDO, ISRO | Adriana Zaleska , Gdansk University of Technology, Poland Bahneman Detlef , Gottfried Wilhelm Leibniz Universitaet Hannover, GERMANY Chantal Houee Levin, LCP, Orsay Cedex Choi Wonyong , Pohang University of Science and Technology (POSTECH), South Korea Christophe Colbeau-Justin , Université Paris-Sud, France |
| 41. | National Seminar on Sustainable Development, conducted at School of Environmental Sciences, MG University, Kottayam 2012. | MG University | Dr.T.V.Ramachandra, Indian Institute of Science, Bangalore Dr. Shibu K. Mani , Tata Institute of Social Science , Mumbai Dr. Sulthan Ahmed Ismail , EcoScience, Chennai |
| 42. | National Conference on Heavy Metals in the Environment’ November 28-29, 2013, School of Environmental Sciences, MGU. | DoECC, MG University | Dr. MNV Prasad , Hyderabad University Dr. Nandita Singh , NBGRI, Lucknow Dr. Dinesh Mohan , JNU Dr.V.Subramaniyan , JNU |



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| 43. | International Conference on Frontiers of Mass Spectrometry- ICMS 2013 September 6-9, 2013 | BRNS, ISRO, DRDO, DST | R. Srinivas , National Centre for Mass Spectrometry, Hyderabad, India Olivier Laprevote , Paris Descartes University, France S. K. Raza , Institute of Pesticide Formulation Technology, India Gopal Vaidyanathan , Waters India Pvt. Ltd., India Venkateswarlu Panchagnula , National Chemical Laboratory (CSIR – NCL), Pune |
| 44. | National Conference heavy Metals in the Environment’ during November 28-29, 2013, School of Environmental Sciences, MGU | DoECC, MG University | Dr. MNV Prasad, Hyderabad University Dr. Nandita Singh, NBGRI, Lucknow Dr. Dinesh Mohan, JNU Dr.V.Subramaniam, JNU |
| 45. | International Conference on Advanced Oxidation Processes (AOP 2014), September 25-28, 2014 Munnar | DST, BRNS,DRDO, ISRO | Michael R. Hoffmann , California Institute of Technology, USA L. Gomathi Devi , Bangalore University, India Mehmet A. Oturan , Universite Paris-Est, Marne-la-Vallee, France Collin G. Joseph , Universiti Malaysia Sabah, Malaysia Anju Chadha , IIT, Madras, India |
| 46. | International Conference on Frontiers of Mass spectrometry, December 11-14, 2015. Kottayam | DST | Marc J-F Suter , Eawag, Switzerland Michael W. Linscheid, Humboldt-Universitaet zu Berlin, Germany Athula Attygalle , Stevens Institute of Technology, USA Evgeny Nikolaev , Physics Russian Academy of Sciences, Russia Achille Cappiello , Università di Urbino, Italia Olivier Laprevote , Paris Descartes University, France |
| School of Gandhian Thought and Developmental Studies | | | |
| 47. | National Seminar on “Ageing Gracefully: A multi – Disciplinary Perspective” (2014) | ICSSR, New Delhi | Dr.Anand P Ambali, Professor of Medicine (Specialised in BLDE University, Vijayapur, Karnataka. Rev.Fr.Romance Antony, Executive Director, Society for Empowering Action, Kerala. Prof.John Kattakayam, Prof.Emeritus, Department of Sociology, University of Kerala. |



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| 48. | Two Day's National Seminar on "Understanding the Tribal Life in India: Issues, Challenges and Alternate Approaches" on 10 th and 11 th of October 2013 | ICHR | Dr.B.Eqbal, Former V.C, Kerala University. |
| 49. | One Day National Conference on Yoga in association with the inauguration of the Centre for Yoga and Naturopathy on 12.01.2016. | MG university | Shri.Subodh Tiwary, Kaivalyadhama Institute of Yoga, Mumbai. Dr.Vinod Kool, New York University of Polytechnic Institute. |
| 50. | Two days national seminar on relevance of Yoga in Modern life on 18.03.2016 & 19.03.2016. | MG university | Sri. Hira Ratan Manek, Dr. T.V.Padmanabhan, |
| School of Indian Legal Thought | | | |
| 51. | National Seminar on Rights of Children " held on 23 rd , 24 th and 25 th Feb 2012. | M.G.University | Prof.N.K.Jayakumar Vice Chancellor, National Law University, Kochi. |
| 52. | National Seminar on Family as an Institution: Modern Realities and Trends in Law from 28 th to 2 nd March 2013. | M.G.University | Prof.Dr.Y.C.RamaSubbayah, Pro. Vice Chancellor,Shro Acharaya Nagarjuna University,Gundur |
| 53. | Two Day National Seminar on the topic of Farmers Right in the Liberalised Economy : Perspectives and Trends was conducted during 27 th and 28 th March 2015. | M.G.University | Justice C.N.Ramachandran Nair Retd. Judge High Court Kerala & Chairman Dam Safety Authority, India. |
| School of International Relations and Politics | | | |
| 54. | International conference on The Rise of China: Policy Parameter and Prospects, 1-3 November 2012 | M.G.University Institute of Chinese Studies, New Delhi. | His Excellency Sri. Niu Qingbao, ConsulGeneral, Consulate of China, Mumbai Prof. Alka Acharya, Director, Institute of Chinese Studies, New Delhi Prof. Madhu Bhalla, Delhi University |
| 55. | International conference on The Arab World; March Towards Democracy, 4-5 February 2013 | M.G.University Minstry of Exernal Affairs, GOI. Indian Council of World Affairs KSHEC, Thiruvananthapuram. | Sri. Ranjan Mathai, Foreign Secretary of India, Consul General of Turkey in Mumbai. Mrs. Ceylan Ozen Erisen, Prof. Tim Niblock, University of Exeter, UK, Prof. Siddharth Mallavarapu, South Asian University, Dr. El Sayed Mekkawi, Minufyia University, Egypt, Sri. Kim Jinwoog, Korea Research Institute for Military Affairs, Sri. John Cherian, Frontline. |
| 56. | South Asian regional conference on Engaging South Asia: Challenges and Opportunities of New Diplomacy, 27-28 th March 2014 | M.G.University KSHEC, Thiruvananthapuram. | Ambassador K. P. Fabian Prof. V. Suryanarayan, former National Security Advisory Board Member |



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| 57. | Colloquium on Travails of Political Transition in Iraq and Egypt, 27 th June 2014 | M.G.University | Prof Ninan Koshy, Prof AK Ramakrishnan, JNU |
| 58. | National seminar on Understanding China, 27-28 February 2015 | M.G.University | Mr. Venu R. senior diplomat in the Ministry of External Affairs and currently Press Secretary to the President of India, Prof. Madhu Bhalla (Delhi University), Sri. Murali Nair (former Consul of India, China) |
| 59. | Conference on Engaging Diaspora: Challenges and Opportunities, 23-24 March 2015 | M.G.University KSHEC, Thiruvananthapuram. | Ambassador Ishrat Aziz, Ambassador R. Dayakar, Dr. Mao Yue, Director, South Asia Research Centre for China, Mr. Velupillai Kuhanendran, Director, Global Tamil Forum |
| 60. | International seminar on Understanding Contemporary India, 14-15 January, 2016-08-12 | M.G.University | Dr. T.V. Paul, Professor of International Relations, McGill University, Canada, Dr. Imtiaz Ahmed, Executive Director, Regional Centre for Strategic Studies, Sri Lanka, Dr. Shibashis Chatterjee, Professor of IR, Jadavpur University |
| 61. | National conference on Public Policy and Governance in India and China, 21-22 March 2016 | M.G.University Chennai Center for China Studies. | D. S. Rajan, Distinguished Fellow of Chennai Centre for China Studies Prof. V. Suryanarayan, former Member, National Security Advisory Board, Govt of India |
| School of Letters | | | |
| 62. | One day seminar on “Vision and Experience” 29 March 2012 | M.G.University | Shri Kumar Sahini National Award Winner for Direction |
| 63. | Seminar on Computational Practices in association with Akshara, December, 2012 | M.G.University | Prof. B.Iqbal Former Vice Chancellor, Kerala University |
| 64. | Translator’s Orientation Programme from 13 to 16 February 2013 | MG University, CIIL Mysore | |
| 65. | National Seminar on Indian Cinema: A Century in Perspective, 21-23 March 2013 | M.G.University | Dr. Hariharan, eminent film maker and critic in Tamil Nadu |
| 66. | National Seminar on Comparative Literature” from 25--27 March 2014 | M.G.University | Prof.N.V.Narayanan, Calicut University. |
| 67. | Seminar on Publishing 12 January 2015 | MG University, National Book Trust, New Delhi | |
| 68. | National Seminar on “Re-Reading Padmarajan” in January 2016 | M.G.University | Shri.Joshy Mathew, Former Kerala Sahithya Academy Vice President |
| 69. | National Seminar on <i>Thirukkural</i> in March 2016 | M.G.University | Prof Nachimuthu Internationally Relevant Linguistics |



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| 70. | National Conference on The Hebrew Question in the Italian Renaissance in April 2016 | M.G.University | Prof.Daniel Stein Kokin Jewish Literature and Culture ,University Greifswald,Germany |
| School of Management and Business Studies | | | |
| 71. | National Conference on Business Models (NCBM), February 2016 | M.G.University | Dr. Javed Hassan,Nest Group Dr.K.C.Chandrashekar Nair Consultant KIDCO Dr T.Ashokan P.V.C Kannur University Shri P.Vinod Manger RBI |
| School of Pure and Applied Physics | | | |
| 72. | National seminar on 100 years of crystallography, 2013, SPAP Mahatma Gandhi University, Kottayam. | M.G.University | Dr.S.Karthikeyan, IMTECH,Chandigarh |
| 73. | International year of Crystallography 2014 | KSCSTE | Dr.M.R.N Murthy,IISC Bangalore |
| 74. | National seminar on Photonics,MGU June 26 th (2014) | M.G.University | Dr Reji Philip,Raman Research Institute ,Bangalore |
| 75. | National Seminar on Advanced Materials, SPAP, M.G. University, January 19-20 th , 2012. Number of Participants – 75 | M.G.University | Dr Santhosh Kumar,IIT Chennai |
| 76. | International Conference on Plasma & Nanotechnology and 29th National Symposium on Plasma Science & Technology 8-11 th Dec 2014 (PLASMA-2014) | M.G.University | Ashish Vyas, IIT Delhi |
| 77. | Seminar on “The Hunt for the Blue LED”-SPAP, 14, October, 2015 | M.G.University | Dr Reji Philip,Raman Research Institute ,Bangalore |
| 78. | Seminar on Piezoelectric Thin Films – Influence of film texture for MEMS. SPAP, 18 June 2015. | M.G.University | Dr B.Premlal,U.K |
| School of Tourism Studies | | | |
| 79. | Two day National Level Seminar on Research Methodology and SPSS software in May 2016 | M.G.University | Dr. B. George and Dr. S. Pushparaj, Associate Professors, Madurai Kamaraj University and Dr. Cecil Dalston, Associate Professor, Presidency College Chennai |
| 80. | One day Seminar on ‘Literary Tourism’ with Darsana Academy and DTPC – Kottayam | M.G.University | Mr. U.V.Jose, Director, Dept of Tourism |
| Department of Life Long Learning and Extension | | | |
| 81. | Four day Seminar on Organic Farming 31 Jan to 3 Feb, 2013. | M.G.university | K.V.Dayal,Famous Organic farming expert |



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| 82. | One Day Seminar on Organic Farming-16-10-2014 | M.G.University | K.V.Dayal,Famous Organic farming expert |
| 83. | The International Seminar, Theme-“EXTENSION: THE THIRD DIMENSION OF EDUCATION” February 26-28, 2016 Venue:-Marian College, Kuttikkanam | M.G.University | |
| 84. | Two Day National Seminar on Relevance of Yoga in Modern Life 18 th and 19 th March 2016 | M.G.University | Hira rattan Manek,famous sun gazing expert |
| 85. | National Seminar on the Trends and Developments in the Education of Children with Learning Disabilities | M.G.University | Himanshu Tripathi |
| 86. | National Seminar on Blood and Organ Donation-Scientific and Motivational Aspects -5 th to 7 th October 2016. | M.G.University | |
| International and Inter University Centre for Nanoscience and Nanotechnology-IIUCNN | | | |
| 87. | International Conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Application (ICM 2016): 13-15, May 2016 | University,DST New Delhi,KSCSTE Thiruvanthapuram | Dr. Galder Kortaberria Basque Country University, Donostia, Spain. Dr. Sunilkumar PN University of Regensburg, Germany Prof. Jana Rieger University of Alberta, Canada Prof. Erhan Piskin Hacettepe University |
| 88. | Fourth International Conference on Nanomedicine and Tissue Engineering (ICNT 2016) 12-14 August 2016 | ICMR,KSCSTE Thiruvanthapuram | Abdeen Mustafa Omer, UK Devika Chithrani, Canada Jagat Kanwar, AUSTRALIA Xiaohong Yang , China Madhavan Nair, USA |
| 89. | First International Conference on Advanced Materials for Power Engineering (ICAMPE 2015) : 11-13 December, 2015 | DRDO, New Delhi DST, New Delhi | Dr. Cemal Basaran, State University of New York at Buffalo, New York, USA Dr. Matej JERGER Slovak Academy of Sciences Bratislava, Slovak Republic Prof. Douglas B. Chrisey Tulane University New Orleans, USA |
| 90. | International Conference on Nanostructured Polymeric Materials (ICNPM 2015) : 13-15 November, 2015 | ICMR, New Delhi KSCSTE, Trivandrum | Prof. Samy Remita (Mr.) Université Paris-Sud, Orsay, France Dr. Naved I. Malek Universidade De Sao Paulo Brazil Prof. Emmanuel Rotimi |



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| 91. | World Congress on Microscopy (WCM 2015): 9-11 October, 2015 | INSA, New Delhi University, DST New Delhi, KSCSTE Thiruvanthapuram | Prof. Ludek Frank, Ústav přístrojové techniky Czech Republic Dr. Orsolya Kantor Simmelweis University, Hungary |
| 92. | Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015 | University, DRDO, KSCSTE Thiruvanthapuram | Dr. Chantara Thevy Ratnam, Malaysian Nuclear agency Selangor DE, Malaysia Prof. Marcos Lopes Dias Universidade Federal do Rio de Janeiro-Brasil Dr. Jonathan Lao Laboratoire de Physique Corpusculaire, CNRS/IN2P3, France |
| 93. | Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014 | DST, New Delhi | Dr. Adel Najar Nippon Telegraph and Telephone Corporation (NTT) Kanagawa Japan Prof. Jose Rajan, Ph.D. Univ Malaysia Pahang, Malaysia Ogun State, Nigeria |
| 94. | Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014 | University, DST New Delhi, KSCSTE Thiruvanthapuram | Dr. Greg Griffin RMIT University Melbourne, Australia Prof. Dr. Gerhard Eder Johannes Kepler University |
| 95. | First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014 | University, INSA New Delhi, KSCSTE Thiruvanthapuram | Arun Raj LaVision GmbH, Goettingen, Germany Ramdane Boukellif Universität Kassel Kassel, Germany Ryuichiro Ebara, Fukuoka University, Japan Prof. Masahiro Endo, |
| 96. | Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014 | CSIR, New Delhi DST, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Prof. Vinicius Guilherme Celante Instituto Federal do Espírito Santo - IFES - Campus Aracruz, Brazil. Dr. Eng. Maria Concetta Tomei Monterotondo Stazione, Italy Tomoko Akai |
| 97. | Seminar on Polymers and Environment, 4 th September 2013 | M.G. University USIEF | Pro Vice Chancellor M.G University Cordinator USIEF, Chennai |



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| 98. | International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013 | CSIR, New Delhi DST, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Dr Ashu Bansal University of St Andrews, UK Prof. Juozas Vidas Gražulevičius Kaunas University of Technology, Lithuania Prof. Dr. Baki Hazer Bulent Ecevit University, Zonguldak, Turkey Prof. Dr. Gerhard Wenz Campus Saarbrücken, |
| 99. | Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013 | CSIR, New Delhi DRDO, New Delhi DST, New Delhi ICMR, New Delhi INSA, New Delhi | Jie Weng Jiaotong University, PR China Charlotte A. E. Hauser Institute of Bioengineering and Nanotechnology, Singapore Lindy Fitzgerald The Univ. of Western Australia Dr. Samarendra Maji Ghent, Belgium |
| 100. | First International Conference on Advanced Nanocomposites for Construction Materials (ICNC 2013) 12-14 March 2013 | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Mahmoud Reda Taha, Mexico Firat University, Turkey A Jindrich M., Czech Republic Dimitris Karamanis, Greece Federica Bondioli, Italy Mirhoseini Sarejam, Iran Akira Otsuki, Australia |
| 101. | The India-Israel Meeting On Material Science And Nanoscience, (IIMMN-2013) , Mahatma Gandhi University, Kottayam, Kerala, India 31 st January to 1 st February 2013 | CSIR, New Delhi DRDO New Delhi KSCSTE, Trivandrum | Gary Hodes, Israel David Cahen, Israel Leeor Kronik, Israel Rafal Klajn, Israel Yehiam Prior, Israel Ernesto Joselevich, Israel Gitti Frey, Israel |
| 102. | Second International Conference on Nanomaterials - Synthesis, Characterization and Applications (ICN – 2012) 13-15 January 2012 | DST, New Delhi ICMR, KSCSTE, Trivandrum | Dr. Baidakova Marina Vladimirovna ,Russia Dr Guryanova Natalia Ivanovna Russia Dr Yury S. Nechaev RUSSIA Dr Prof. Petr A. Purtov Russia |
| 103. | Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012. | CSIR, New Delhi DBT, New Delhi DRDO, New Delhi DST, New Delhi INSA, New Delhi | Dr. Elliot Paul Gilbert Project Leader, Food Science Australia Mohan Trada University of Southern Queensland, Australia Anand Gadre University of California, Merced Prof. Chengbo Shandong University |



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| 104. | First Indo- US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31st March – 2nd April 2012, Kottayam, Kerala, INDIA | CSIR, New Delhi DRDO, New Delhi ICMR, New Delhi KSCSTE, Trivandrum | Dr. LIU ZhiGang School of Mechanical Engineering, Jiangnan University CHINA Prof. Dr. LU-Li Xin School of Mechanical Engineering, Jiangsu Province, CHINA |
| 105. | Third International Multicomponent Polymer Conference (IMPC-2012) 23-25 March-2012, Conducted by Centre for Nanoscience, M. G. University, Kerala, INDIA | DST, New Delhi ICMR,KSCSTE,M.G.University | Prof Patrick Sharrock University Paul Sabatier Castres Cedex, France Dr. Leandro Ludueña National University of Mar del Plata, Argentina |
| 106. | (PPOMP 2011) First International Conference on Plasma Processing of Organic Materials and Polymers 25-27 November 2011, Kottayam, Kerala, India | BRNS, Mumbai CSIR, New Delhi DST, New Delhi ISRO, Bangalore | Dr. Frederic Thevenet Dpt. Chimie & Environnement Ecole des Mines, Douai Poncin-Epaillard Fabienne Université de Rouen, Mont Saint Aignan Cedex, France Miran Mozetic Jozef Stefan Institute, Slovenia Miguel Manso Silván |
| 107. | ICNC-2011- International Conference on Composites and Nanocomposites-2011 Conducted by Centre for Nanoscience, M. G. University, Kerala, INDIA | CSIR, New Delhi DST, New Delhi KSCSTE, Trivandrum | Dr. Andrés E. Sotelo Mieg EUITIZ, Zaragoza (Spain) Xiangdong Yao Griffith University , Australia Prof. Bernard Riedl, Université Laval, Canada Suresh Narine Trent University, Canada |
| 108. | Second International Conference on Recycling and Reuse of Materials (ICRM 2011) 5-7 August 2011, Kottayam, Kerala, India | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Prof. Dr. Verónica Calderón Spain Prof. Neil Izatt USA Prof. Nagesh N. Murthy USA Prof. Marko Likon Slovenia Prof. Raimundo Kennedy Vieira Brazil, |
| 109. | First International Conference on Nanomaterials (ICN 2010) April 27-29, 2010. | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Dr. Rongming Wang, China Prof. Dr. H.-G. Boyen, Belgium Dr. M.A.G. Soler Invoice, Brazil Dr. Mathieu Etienne, FRANCE Dr. Rolf Heumann Germany |
| 110. | Second International Conference on Polymer Processing and Characterization (ICPPC – 2010) January 15, 16 and 17, 2010 | CSIR, New Delhi INSA, New Delhi KSCSTE, Trivandrum | Dr. Verónica Patricia Martino France Prof. Alexey Iordanskii. Moscow Dr. Moyad N. Khalaf Iraq Prof. Oleg Kulikov Russia Prof. Wang li China Prof. Lu Lin China |



| Advanced Centre of Environmental Studies and Sustainable Development -ACESSD | | | |
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| 111. | International Conference on Advanced Oxidation Process in collaboration with Centre for Environment Education and Technology (CEET), (AOP-2010)-September 18-21, 2010, Kottayam. | DST, CSIR, DRDO | Prof. Dr. Detlef W. Bahnemann (Germany), Prof. Dr. Hoffmann(caltech,USA), Prof. Dr. Jacqueline Belloni (France), Padmasree Jai P. Mittal (BARC, India), Dr. Tulsi Mukherjee (BARC, India), Prof. Dr. B.S. M. Rao (Pune, India) |
| 112. | National Conference on Native Livestock breeds and their sustainable uses in collaboration with Vechoor Conservation Trust and National Biodiversity Authority, September 27- 28, 2010, Kottayam) | DST, CSIR, DRDO | Prof. Dr. Deniz Roizard (France), Dr. Asok M Raichur (IISC, India), Prof. Dr. V.V. Tepliakov(Russia), Prof. Dr. G. Golemme(Italy), Dr. Jayasree ramkumar(BARC, India), Prof. Dr. Quang Trong Nyugen (France), Dr. Hiromitsu Takaba (Japan), Prof. Dr. Alok Kumar Ghosal (IIT, Guwahati,India), Dr. Anupam Sukla (IIT, Delhi,India), Thomas Luxbacher(Austria), Dr. S. K. thampi (CSMCRI, India) , Prof. Dr. R. Mercier(France), Prof. Dr. Nagy E(Hungary) |
| 113. | International Conference on Membranes: Environmental and biological applications-(ICM-2011) September 16-19, 2011, Kottayam. | DST, CSIR, DRDO | Prof. Dr. Hynd Remita (France), Prof. Dr. Mehmet Oturan(France), Dr. Sarkar (BARC, India), Dr. Abijith Saha (Kolkata,India) |
| 114. | National conference on Disaster risk and vulnerability, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011 | DST, CSIR, DRDO MEF, | Prof. D. Fatta Kassinos (Cyprus), Prof. Minjoong Yoon (South Korea), Prof. Renato). |
| 115. | Second International conference on Advanced Oxidation Process, October 5-8, 2012, Kottayam. | M.G. University | Prof. Dipankar Chakraborty (Kolkata, India), Prof. Anne M. Hassen (Mexico), Dr. Anurag Garg(IIT,Bombay), |
| 116. | National Conference on Conservation and Management Of Wetland Ecosystems, In Association with SES, MGU, Kottayam, November 6-9, 2012 | M.G.University MEF, | Prof. Andreas Kaiser (Denmark), Prof. Yoram Oren (Israel), Prof. Balagopal Nair (Japan) |
| 117. | National seminar on sustainable development – recent trends in meeting the challenges, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 20-21, 2012, Kottayam. | M.G.University | Prof. Anilkumar(Japan), Prof. Sylvie (France) |
| 118. | International Conference on Membranes (ICM-2013), October 3-6, 2013, Kottayam. | DST, CSIR, BRNS | K. G. K. Warriar (NIIST, India), Prof. Dr. Vinay A. Juvekar (IIT,Bombay) |



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| 119. | Seminar on Conservation of Western Ghats, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 16 th December 2013. | DST, CSIR, BRNS | Prof. O. P. Singh (India), Prof. Dayanthi Nugegoda (Australia). |
| 120. | Third International Conference on Advanced Oxidation Processes (AOP 2014) Sept. 25-28, 2014, Munnar, Kerala. | DST, CSIR, BRNS | Mark Wisner (USA), Dr/ Ulhas Kharul (NCL,India) |
| 121. | International Conference on Water: from pollution to purification (ICW - 2015) Jan. 23-26, 2015, Kottayam, Kerala | DST, CSIR, BRNS | Falcao Dantas (Brazil), |
| 122. | International Conference on Membranes (ICM - 2015) Aug. 21-24, 2013, Kochi, Kerala | DST, CSIR, DRDO | Dr. Pushpito Ghosh(CSMCRI, India) |
| 123. | International Conference on Mass Spectrometry, December, 11-14, 2015, Kottayam | MEF | Dr. Marc J-F Suter, Eawag, Switzerland Prof. Athula Attygalle, Stevens Institute of Technology, USA Prof. Olivier Laprevote, Paris Descartes University, France |
| Inter University Centre for Studies in Science of Music -IUCSSM | | | |
| 124. | International Seminar on Science of Music was organized "Nadam-2015" 23-27 September 2015 at Kottayam | M.G.University | Dr. James B. Kinchen, University of Wisconsin-Parkside Dr. Sanjay Subramanyam Chennai,Eminant Karnatic Vocalist |
| Advanced Molecular Materials Research Centre-AMMRC | | | |
| 125. | National Seminar on Current Trends in Material Sciences on 15-11-2013 | M.G.University | Dr Vijayamohanan Pillai, CECRI, Karaikudi Dr K.R.Dayas, CMET, Trichur Dr Shaaijumon Cherian, IISER, TVM |
| 126. | National Seminar on Recent trends in Inorganic-Organic Hybrid Materials on 26 - 27 February, 2015 | M.G.University | J. N Behera (NISER, Orissa) T.K.Maji (JNCASR, Bangalore) R. Murugavel, (IIT, Bombay) |
| 127. | National Seminar on Recent Advances in Materials Sciences on November 18-19, 2016, | M.G University | 1. Dr. Subi Jacob George, JNCASR Bangalore 2. Dr. Vinod Prabhakaran NCL Pune 3. Dr. Reji Varghaes, IISER TVM 4. Dr. Hareesh, NIIST, TVM |



| National Institute of Plant Science and Technology (NIPST) | | | |
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| 128. | National Seminar on “Plant Science Technology for Sustainable World” held on 25th & 26th February 2016. | M.G.University | Dr. Krishnaraj P.U., College of Agriculture, UAS Dharwad, Karnataka. Dr. Lekha Sreekantan, KAU, Thiruvananthapuram. Binod Parameswaran, CSIR-NIIST, Thiruvananthapuram Dr. K.G. Reghu, CSIR-NIIST, Thiruvananthapuram |
| Inter University Instrumentation Centre –IUIIC | | | |
| 129. | National Workshop on Frontiers of Spectroscopy and Microscopy, Sept 10-12, 2012 | DST-PURSE | Prof. K.V.Ramanathan, IISc, Bangalore (NMR Spectroscopy) Dr. Venkat Manohar, IICMS, Chennai (MS- Proteomics) Dr. Unnikrishnan Warriar C. CWRDM, Calicut (Isotopes ratio-MS) Prof. P.M.G. Nambissan, SINP, Kolkata (Positron Annihilation) |
| 130. | National Seminar on "Uptrends in Chemical Sciences and Technology"-2013 March 15-16, 2013 | UGC | Dr. T. Pradeep , IIT Chennai Prof. A. Ajayaghosh , CSIR- O Scientist & Dean, Academy of Scientific And Innovative Research, Niist, Trivandrum Prof. Santhanu Bhattacharya , IISc, Bangalore Prof. A.K. Mishra , IIT Chennai Dr. Y.S. Mayya , BARC, Mumbai |
| 131. | International Conference on Mass Spectrometry, ICMS-2013 Sept. 6-9, 2013 | KSCSTE, BRNS, CSIR, M. G. University | Dr. Olivier Laprevote , Paris Descartes University, France Dr.Mahesh J. Kulkarni, National Chemical Laboratory, Pune, India Prof. Kentaro Yamaguchi, Tokushima Bunri University, Japan Dr.Venkateswarlu Panchagnula, National Chemical Laboratory, Pune Dr.R. Srinivas, National Centre for Mass Spectrometry, India |
| 132. | National Colloquium on Mass Spectrometry, Chemical, Biological and Environmental applications Aug. 29-31, 2014 | KSCSTE | Dr. K. P. Madhusudan , Visiting Scientist, IUIIC, MGU Dr S.K. Raza , Institute of Pesticide Formulation Technology, Gurgaon Dr. M.V. Jagannadham , CSIR-CCMB, Hyderabad Dr.Abdul Jaleel K. A. , RGCB, TVM) |



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| 133. | International Conference on Advanced Oxidation Processes, AOP- 2014 Sept. 25-28, 2014 | DST, KSCSTE, BRNS, ISRO | Dr. Michael R. Hoffmann , California Institute of Technology, USA Prof. Mehmet A. Oturan , Universite Paris-Est, Marne-la-Vallee, France Dr. Collin G. Joseph , Universiti Malaysia Sabah, MALAYSIA Prof. D. Fatta-Kassinou , School of Engineering, University of Cyprus, Cyprus Prof. Minjoong Yoon , Chungnam National University, Daejeon, South Korea |
| 134. | International Conference on Water, ICW-2015 Jan. 23-26, 2015 | DST | Prof. Mark R. Weisner , Duke University, USA. Prof. Yoram Oren , Zuckerman Institute for Water Research, Israel. Dr. Anne M. Hansen , Mexican Institute of Water Technology, Mexico. Dr. Martina Zelenakova , Technical University of Kosice, Slovakia. |
| 135. | Third International Conference on Membranes, ICM-2015 Aug. 21-24, 2015 | DRDO | Prof. Y. Oren , Zuckerman Institute for Water Research, Israel Prof. Vladimir Teplyakov , Russian Academy of Sciences, Russia Prof. Andreas Kaiser , Technical University of Denmark, Denmark Dr. Thomas Luxbacher , Anton Paar GmbH, Austria |
| 136. | National Workshop on Mass Spectrometry (NWMS-2015), Dec. 10-11, 2015 | M. G. University | Dr. M. Vairamani , SRM University, Chennai Dr. K. Madhusudanan , IUIC, M. G. University Dr. R. Srinivas , National Centre for Mass Spectrometry, CSIR-IICT, Hyderabad Prof. Athula Attygalle , Stevens Institute of Technology, USA. |
| 137. | International Conference on Mass Spectrometry, ICMS-2015 Dec. 11-14, 2015 | DST, KSCSTE, DRDO | Dr. Marc J-F Suter , Eawag, Switzerland Prof. Athula Attygalle , Stevens Institute of Technology, USA Dr. R. Srinivas , National Centre for Mass Spectrometry, India |



| Institute for Contemporary Chinese Studies - ICCS | | | |
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| 138. | Symposium on the theme China and the Emerging World Order: Is Peaceful Rise Possible? on 23 December 2011 jointly with the KPS Menon Chair, School of International Relations and Politics, MGU | ICSR, ICWA | <p>Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan National University, Guangdong, Guangzhou, China</p> <p>Li Mingquan, Professor & Vice – President, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China</p> |
| 139. | International Conference on China (CoC 2012) during 1-3 November 2012 on the theme The Rise of China: Policy Parameters and Prospects jointly with the Indian Council of World Affairs (ICWA), New Delhi, Association of Asian Scholars (AAS), New Delhi and the Institute of Chinese Studies (ICS), New Delhi | ICSR, ICWA, MG University | <p>Huan Yinghong, Associate Professor at the School of International Relations, Sun Yat-sen University, P.R.China</p> <p>Yue Zhaomin, Associate Professor, Sichuan Academy of Social Sciences, China. Faculty and Secretary General of the "Centre for India Studies", China</p> <p>Ji Mengxue, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China</p> |
| 140. | International Symposium on the theme Political Transition in China and the United States – Implications for India on 28 February 2013 jointly with the KPS Menon Chair | MG University | <p>Li Jingfeng, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China</p> <p>Chen Jixiang, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China</p> <p>Nie Wenjuan, Associate Professor, Institute of International Relations, China Foreign Affairs University.</p> |
| 141. | National Seminar on the theme “Understanding China: Indian Perspectives” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP and the Chennai Centre for Chinese Studies during February 2015. It was attended by around 20 invited scholars. | MG University CCCS, Chennai | <p>Prof. Srikanth Kondapalli, Jawaharlal Nehru University, New Delhi</p> <p>Amb. Vinod C. Khanna from New Delhi,</p> <p>Sri. Venu Rajamony, IFS from the Ministry of External Affairs;</p> <p>Sri. T.P. Sreenivasan, IFS, Former Indian Ambassador,</p> <p>Sri. Muraleedharan Nair formerly Consul General at Indian Mission at Guangzhou, China,</p> |



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| 142. | Conference on the theme “Engaging Diaspora” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP during March 2015. | MG University KSHEC, Thiruvananthapuram. | Prof. Srikanth Kondapalli, Prof. of Chinese Studies at Jawaharlal Nehru University (JNU), New Delhi, Prof. Madhu Bhalla, Prof. of Chinese Studies at Delhi University, Prof. V. Suryanarayan, President, Chennai Centre for China Studies, Chennai, Dr. D.S. Rajan, Director, Chennai Centre for China Studies, |
| 143. | Associated with an International Conference on 'Understanding Contemporary India' organized by the Rajiv Gandhi Chair for Public Policy Studies, School of International Relations and Politics & University Centre for International Co-operation, Mahatma Gandhi University during 14-15 January 2016. | MG University | Dr.T.G. Suresh, Associate Professor, Centre for Political Studies, JNU, Sri. R. Hariharan, Former Chief of Military Intelligence, Government of India, Sri.K. Subrahmaniam, Former Joint Secretary (Retd.) Dept. of Economic Affairs, Government of India, Prof. R.S. Vasan, Director, Chennai Centre for China Studies |
| KN Raj Centre for Planning and Centre – State Financial Relations | | | |
| 144. | Seminar “Emerging Kerala and the Budget 2013-14” - Seminar and Symposium on 22 March 2013. | MG University | Prof. M.A. Oommen, Dr. K.K. George, Prof. K.J. Joseph, Prof. K.N. Harilal, Sri. C.P. John, Prof. Martin Patrick et al. and Sri. K. M. Mani |
| 145. | Colloquium on “Contours of Centre-State Financial Relations and the Budget 2014-15 | MG university | Prof. K.N. Harilal (CDS), C.P. John (Planning Board), Prof. Rajan Varughese (former PVC), R. Mohan (Ministry of Finance, Govt of India), Shyjan D (CDS), Prof. Thomas Isaac, former finance minister and Sri. K.M. Mani |
| 146. | Colloquium on the “Union Budget: Challenges and Opportunities” 11 July 2014 | MG university | Dr. Jayan Jose Thomas, Associate Professor, Indian Institute of Technology, New Delhi. Dr. Alexander Eapen, Director of Research, Australian National University, Sri. K.T. Chacko former Director, Indian Institute of Foreign Trade, New Delhi, Dr. Jose Naduthotty, KNRC and Dr. B. Ekbal |



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| 147. | Collaborative Seminar with UC College | UC college | Dr. Anuradha Balaram (Advisor to the State Planning Board), Dr. Praveen Jha (Jawaharlal Nehru University), Dr. K. K George, Dr. M.A. Oommen, Dr.D.Narayana (former Director, GIFT), Dr.. CA Antony, CUSAT, Mr. Mohan, Ministry of Finance, Dr. Rajan Varughese et al. Dr. Amit S Ray, Director, Centre for Development Studies |
| 148. | Kerala Development Oxymora: External Source Goods and Service Tax (GST): Implications for Kerala Economy | ICSSR Institute of Parliamentary Studies (IPS) | Prof C P Chandrashekhar, Professor of Economics, J.N.U New Delhi Prof. M A Oommen, Indian Social Institute, Delhi |

| Name of School/ Department | Details of workshops/training programmes conducted (Total 207) |
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| School of Behavioural Sciences | <ol style="list-style-type: none"> 1. International Workshop on Building up Research, 11-13, August, 2013. Convenor -Ms.Rincymol Mathew) 2. Symposium on Enhancing Quality of Research. 25.6.2015 (Convenor – Dr. P. S.Sukumaran) 3. Workshop on Research Methodology and Statistics. 16-18, September 2016 (Convenor - Dr. P. T. Baburaj) . Organized through IUCDS. 4. Two Weeks Orientation Workshop on Braille (English & Malayalam) for General School Teachers in Collaboration with Regional Centre of National Institute for the Visually handicapped, Chennai. 25.09.2015 to 10.10.2015 (Convenor – Dr. K. M. Mustaffa) 5. Workshop on Rorschack- Psychological testing. 28-29, September 2015 (Convenor – Dr. Rajeevkumar N.) 6. Workshop on Learning Disability. 15.02.2016 (IUCDS) (Convenor – Dr. P. T. Baburaj) 7. Workshop on Cognitive Behaviour Therapy. 22-24, March 2013. (Convenor – Dr. Rajeevkumar N.) 8. Empowering Teachers in Mentoring and Student Counselling. 29-31, March 2016. (Dr. rajeevkumar N). 9. National Seminar on Management of Learning Disabilities. 22.03.2011. (Convenor – Mr. Rajesh E.) 10. Workshop on Learning Disability. 28-29, June2016 (Convenor – Dr. P. T. Baburaj) |



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| | <p>11. Workshop on Curriculum Revision. 28-29 April 2016. (Convenor – Dr. P. S. Sukumaran)</p> <p>12. Workshop on BEd Special education Curriculum Revision On 23.04.2015 (Convener Dr. P. S. Sukumaran)</p> <p>13. Workshop on M.Ed Special education Curriculum Revision On 24.06.2015 (Convener Dr. P. S. Sukumaran)</p> <p>14. Seminar on National Trust Act, 1999 and Legal Guardian ship for the parents of individuals with Autism Cerebral palsy mental retardation and multiple disabilities, 15.12.2014(Convener Dr. P. S. Sukumaran)</p> <p>15. Orientation Course in Indian Sign Language, 11th – 13th November 2015(Convener Dr. Muhammad Mustaffa)</p> <p>16. Refresher Course on Braille 26.8.2015 – 10.09.2015(Convener Dr. Muhammad Mustaffa)</p> |
| School of Biosciences | <p>1. Hands on workshop on DNA Barcoding of microbes.on 30.3.2014. Convener, Dr.Jisha.M.S</p> <p>2. Workshop on “Molecular Phylogenetics in Microbiology”26.9.2012-28.9.2012Convener Dr.Jisha.M.S</p> <p>3. One day Workshop for Teachers of affiliated Colleges in connection with PG Biotechnology Syllabus Revision -2015.</p> <p>4. National Training cum workshop on molecular docking and drug designing 23-25 March 2015 organized by School of Biosciences, Mahatma Gandhi University and BioDiscovery Group Life Sciences,, conducted on 23-25 March 2015. Convenor Dr.Prakashkumar B</p> |
| School of Chemical Sciences | <p>1. National work shop on ”Fundamentals and applications Material science” organized in association with SRIBS(KSCSTE) on march 4-6 held at Kottayam</p> <p>2. National Workshop on "NMR Spectroscopy", 10th - 13th September 2014</p> <p>3. Workshop on High Performance Liquid Chromatography (HPLC), 4th& 5th November 2013.</p> <p>4. Workshop on "Computational Chemistry", May 28th - 31st, 2012</p> <p>5. Workshop on "Basic Principles and applications of Computational Chemistry", May 23rd - 27th, 2011 at IIRBS</p> <p>6. DST-PURSE sponsored Workshop on Frontiers of Spectroscopy and Microscopy, Kottayam,September 10-12, 2012 (participation)</p> <p>7. National Workshop on Advances in Instrumental Techniques for Nanomaterial characterization on 7-8 March, 2014 at Kottayam (Participation)</p> |



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| | <ol style="list-style-type: none"> 8. The School has hosted the interactive session on Indian Space Mission with Dr. K. Radhakrishnan, former Chairman, ISRO 9. Invited lecture Journey to Mars by Dr. K. N. Ninan, Former Deputy Director, VSSC, Thruvananthapuram 10. National Colloquium on Recent Trends in Organic and Bioorganic Chemistry on 24th October, 2013 at Calicut University, Calicut, India –KSCSTE –G. Anil Kumar and Prof. E. Purushothaman (Course Coordinators) 11. National Colloquium on Recent Trends in Organic and Bioorganic Chemistry on 18-20 July, 2014 at Kottayam, India-- KSCSTE –G. Anil Kumar (Course Coordinator) 12. Workshop on Quantum Mechanics for M Sc Chemistry students and faculty on 20-21 June 2015 at Kottayam-- KSCSTE –G. Anil Kumar (Course Coordinator) 13. Workshop on Group Theory for M Sc Chemistry students and faculty on 30 Oct-1 Nov 2015 at Kottayam -- KSCSTE –G. Anil Kumar (Course Coordinator) 14. Workshop on Stereochemistry for M Sc Chemistry students and faculty on 8-10 January 2016 at Kottayam -- KSCSTE –G. Anil Kumar (Course Coordinator) 15. National Colloquium in Organic and Bioorganic Chemistry held at Kottayam on 29-31 July 2016 -- KSCSTE –G. Anil Kumar (Course Coordinator) 16. National Colloquium on Catalysis: Emerging Trends- held at Kottayam on 30 Sept-2 Oct 2016-- KSCSTE –G. Anil Kumar (Course Coordinator) |
| School of Computer Sciences | <ol style="list-style-type: none"> 1. Interface –Annual Technical Meet, a National level IT Fest organized by the School in association with Computer Science Students' Association of the School, Every December. 2. Workshop on “Tour Making”, Mr.Aravind Paranjpye, Officer for Science Popularization,IUCAA, Pune, October 18-19, 2010. 3. Workshop on “FOSS and BOSS”, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010. 5. Workshop on “e-Astronomy and Statistics”, organized by School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011. 6. Workshop on “MCA Syllabus Revision”, Mahatma Gandhi University, 24-25 March 2011. |



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| | <p>7. Workshop on “Computer Networking Leading to CCNA Certification”, March 16, 2011.</p> <p>8. Workshop on “Teaching Learning Process”, by Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.</p> <p>12. Workshop on “ Open source software “ was organized by the School during 2012 , inaugurated by Dr. Iqbal , former Vice-chancellor of Kerala University.</p> <p>13. National level technical talk on “NP Complete Problems and High Performance Computing” as part of Interface2012 in Dec, 2012.</p> <p>14. A one day ISTE e-Workshop on “Creative Teaching” at School of Computer Sciences, October 2013.</p> <p>15. Spoken Tutorial project(an initiative of NMEICT, MHRD, Govt. of India) in the University, a training session at School of Computer Science and Engineering/Computer Applications/IT institutions under M G University on 27.08.2014, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay.</p> <p>16. A workshop on ‘Training A-view System’ by A-View team of Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India, on 23rd February 2015.</p> <p>17. A workshop on ‘Scilab’ by the Spoken Tutorial Project, through “Talk To A Teacher” project of IIT Bombay on 25/3/2015, funded by National Mission on Education through ICT, MHRD, Govt. of India.</p> <p>18. One day workshop on i. ‘Principles and Practices of a Good Professional and Personal Life’ and ii. ‘How to face an Interview’ on 19/08/2015.</p> <p>19. Two-day National Workshop on “India’s First Cloud Computing Championship – IFC3 INDIA” in collaboration with Neuromancers, IIT Bhubaneswar and Infero, Scitech Council IIT Hyderabad from 9.02.16 to 10.02.16. Our School served as a zonal centre.</p> <p>20. 3 day workshop on “Network Simulator 2” (19.11.15 to 21.11.15) for faculty members as well as M Sc/M Tech and Research students of the School.</p> <p>21. A workshop on “Cloud Solutions and Implementation” for faculty and technical staff of the School on 28.06.2016 by Mr. Saneesh Kaniyath, Sr. Technical Consultant, Smartsoft, Cochin.</p> |
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| | <p>22. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016 as part of Capacity Building and Knowledge Upgradation for faculty members and M Sc/M Tech/M Phil and Research students of the School, in collaboration with Scientific Computing Solutions, Chennai.</p> <p>23. Three day National level workshop on “Data Analytics and Machine Learning Using R” June 15-18, 2016</p> |
| School of Environmental Sciences | <p>1. OSI workshop on “Membrane technology” in collaboration with Duke University, August 2015.</p> <p>2. Nineteenth National Symposium on Environment (NSE-19), December 11-13, 2014 at School of Environmental Sciences, MG University.</p> |
| School of Indian Legal Thought | <p>1. A National Seminar on Access to health Care in Modern Era :Changing Dimensions, was organised by the School on 13-15th March, 2016. 7th National Moot Court has been successfully organized.</p> <p>2. Dr. Ambadkar Memorial Lecture on 29th & 30th March 2012 on the topic Access to Health Care in India: Implications of Patent Laws has been delivered by Dr.N.S. Gopalakrishnan (Prof. HRD Chair on IPR and Director, Inter University Centre for IPR Studies, CUSAT).</p> <p>3. 8th National Moot Court competition has been successfully organized during 14-16th Feb, 2013.</p> <p>4. 9th National Moot Court has been conducted during February 20th and 22nd of February 2014.</p> <p>5. Dr. Ambadkar Memorial Lecture on 8th March 2014 on the topic of Constitutional Dharma and Contemporary Challenges has been delivered by R. Venkatramani (Senior Advocate of Supreme Court of India & Member of Law Commission of India).</p> <p>6. Legal literacy mission in various schools and colleges in Kottayam district</p> <p>7. Dr. Ambadkar Memorial Lecture on 29th February 2015 on the topic of Judicial Activism and Judicial Restraint has been delivered by Hon. Dr. Justice B.S. Chauhan (Chairman Cauvery Water Dispute Tribunal and Former Judge of Supreme Court of India) on 29th February 2015 on the topic of Judicial Activism and Judicial Restraint.</p> <p>8. Dr. Ambadkar Memorial Lecture on 30th March 2016 on the topic of New Constitution Challenges was delivered by Prof Dr Sivakumar, Prof Indian law Institute, New Delhi on 30th March, 2016.</p> <p>9. Hon’ble Justice V.Eswariah, Chairperson, National Commission for Backward Classes and Former Chief Justice High Court of Andhra Pradesh delivered a lecture on “Free Press and Independent Judiciary” on 18.12.2015</p> |

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| School of Letters | <ol style="list-style-type: none"> 1. Workshop on Malayalam Computing in August 2015. 2. Workshop on Poetry, drama, and story in September 2012 3. Workshop on Knowledge text translation in collaboration with CIIL, Mysore from 13-16 February 2013 4. Workshop on reading ancient Malayalam scripts (<i>vattezhuthu, kolezhuthu, grandhaksharam etc.</i>) in 2014 5. Translator's Orientation Programme from 13 to 16 February 2013. |
| School of Pedagogical Sciences | <ol style="list-style-type: none"> 1. Three day Workshop on Research Methodology from 12th to 14th August 2013 2. One day Lecture on Research Methodology by Professor (Dr.) M. A. Sudhir, Gandhigram Rural University, on 7th December 2014 3. One day Lecture on Research Methodology by Professor (Dr.) M. A. Sudhir, Gandhigram Rural University, in March 2016 |
| School of Pure & Applied Physics | <ol style="list-style-type: none"> 1. National Workshop on Mathematics for (Astro) Physics, M G University Kottayam, Sept 27 -Oct 01 2011 MGU & IRC, Kochi 2. National workshop on Materials characterisation by diffraction Methods, M G University Kottayam, February 24-25, 2010 3. Workshop on Developments in Crystallography, SPAP, 16 - 17, December 2014. 4. Inculcate Science Propagation Program by Govt. of Kerala, 27 Sep 2014 5. Lecture 5: Frontier Lecture Series 27th Sept 2011 'The Relation Between Mathematics & Physics' by Prof. N. Mukunda (IISc & Vice President Indian Academy of Sciences) 6. Workshop on Fourier Transforms in (Astro)Physics Feb 13 -15 2013 7. September 28 2015 Prof Dileep Karanth, University of Toledo, Erudite Lecture on Pseudopotential studies of nanowires and nanorings 8. Lecture on "Radio Astronomy" by Jagadheep Pandiyan Indian Institute of Space Science & Technology, Thiruvananthapuram 20 November 2015 9. "Radio Astronomy Data & Its Analysis" Lecture by Rabi Akkiba Angiras, Member SKAIC Science Working Group 11 Jan 2016\ 10. Einstein Lecture Series -Lectures by Prof Bala Iyer, Council Chair, IndIGO Consortium, ICTS TIFR 2nd Feb 2016 11. Lecture by Prof John Philip, Head, SMARTS, IGCAR Kalpakkam, on 'Light and the Nano World' 25th Feb 2016 12. Infosys Science Foundation Lecture by Prof G Ravindra Kumar, Winner Infosys Prize in Physics on "Extreme Light Extreme States" 29 March 2016 13. Lecture by Dr A M Vinodkumar Calicut University on "Fusion : Quest for Super Heavy Elements" 6th April 2016 |



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| School of Social Sciences | <ol style="list-style-type: none"> 1. Co-ordinated three University level (2010,2011&2012) and two state level ACQUIRE UG Scholarship programme funded by Govt. Of Kerala (2010, 2011). 2. Co-ordinated two state level PG Workshops (AQUIRE) funded by Govt. Of Kerala (2011-12). 3. Three Scholar in Residence Programmes funded by the Higher Education Council. (Gayathri Spivak, Romila Thapar(2013) and Partha Chatterjee, 2013). 4. Five day Social Science Methodologies Workshop delivered by Prof. Ahmed Nissar, 2015. 5. Five day workshop on Assistive Technologies for Visually Impaired Students doing Social Sciences at ABILITY Station of SSS |
| School of Tourism Studies | <ol style="list-style-type: none"> 1. One day Workshop on “Zotero” – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies in August 2014 2. One day workshop on “Mendeley” – Library Management Software organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 28th April 2016 3. Two day National Level Workshop on “Contemporary Research Methods and Software Packages” organized by School of Tourism Studies on 25th and 26th May 2016 4. One day seminar on “How to avoid Academic Plagiarism” organized by Kerala Library Association, Kottayam region and School of Tourism Studies on 30TH May 2016 5. A workshop on ‘Discover Kottayam’ (tourism product branding) along with DTPC – Kottayam. 6. One day seminar on Literary Tourism with DarshanaAcademy and DPC, Kottayam. 7. Two day National Level Workshop on Research Methodology and SPSS software in May 2016 |
| Name of the Centre | Details of programme conducted |
| | International, Inter University & Inter School Centers |
| IIUCNN | <ol style="list-style-type: none"> 1. National Workshop on Hybrids of Nanotubes, Graphene and Dendrimers, Nanotechnology Platforms, April 2013. 2. National Workshop on Advances in Nanoscience and Nanotechnology, March 23, 2013 3. National Workshop on Advances in Hybrid Materials, March 2013. 4. Workshop on HRTEM Imaging, Mahatma Gandhi University, 2012 |



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| | <p>5. National Workshop on “Synthesis, Characterization and Applications of Nanomaterials”-NWNM- 2010 held during 12-14 January 2010</p> <p>Sensitization Programmes</p> <ol style="list-style-type: none"> 1. Dr. Habeeb Muhammed MA, (Germany). "Hierarchical Gold-Copper Chalcogenide Core Shell Nanoparticle Clusters with Selectable NIR Metal/Semiconductor Plasmon Resonances".31.10.2016 2. Dr. Shiju Raveendra University of Amsterdam, Netherlands. "Heterogenous catalysis and its Applications".20.10.2016 3. Prof.Dr. Clement Sanchez(University of Pierre and Maria Currie, France Applications of Hydridmaterials 03.10.206 4. Dr. Vivek K Srivastava and Dr. Ganesh C. Basak ,Reliance industries, Vododara, GujaratRecent trends in rubber technology01.10.2016 5. Prof. Dr. Wim Dehaen,University of Leuven, Belgium. "Hyper branched Polymers based on Isatin and Electron Rich Arenes: Synthesis and Applications".25.07.2016 6. Camille Thevenot,University of de Lorraine in Nancy,France,A piezoelectric polymer material P(VDF-TrFE): elaboration, characterization and applications16.07.2016 7. Dr.Kajal Ghosal,AssistantProfessor, Dr. B C Roy College of Pharmacy and AHS, Durgapur, India (currently affiliated to CEITEC,MU, Czech Republic)Electrospinning: Can polymeric films be plasticized without Plasticizers".14.07.2016 8. Prof. Dr. Dinesh Kumar Kotnees, Patna "Preferentially fixing nanoclays in the phases of incompatible polymer blend using thermodynamic approach and its effect on physico mechanical properties"08.07.2016 9. Dr Nishar Hameed,Swinburne University of Technology, Australia" Carbon Fibre – the Material of the Future".18.06.2016 10. Dr. Sami Hage-Ali, Associate professor with the micro- nanosystems group (MNS) at Institute Jean Lamour, France"Applications of silicone based elastomers to flexible radio frequency devices and sensors".18.06.2016 11. Dr.Rosana Maria Assuncao Birth, Institute of the Federal University of Uberlandia, BrazilPhysico chemical properties of starch NR-blends10.06.2016 12. Dr. Daniel Pasquini, Institute of the Federal University of Uberlandia, Brazil Nan crystals from stanch and cellulose on 08.06.2016 13. Prof. Dr. Zakiah Ahmad(Director,Institute for Infrastructure Engineering and Sustainable Management,Mara) from MalaysiaNew frontiers of material science in civil engineering31.05.20116 14. Prof. Dr. JosesphArul of the University of Laval, Canada Preservation fresh fruits and vegetables01.04.2016 |
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15. Prof. Nathalie Gontard (Professor, INRA Research Director, Food & Packaging Scientist) from France, Next generation of packaging to increase full system sustainability. 28.03.2016
16. Prof. Florian Mormann, MD, PhD, Department of Epileptology, University of Bonn, Germany "The Building Blocks of Memory-The Marilyn Monroe Neuron" 19.02.2016
17. Prof. Dr. Joanna Ewa Izdebska Warsaw University of Technology, Poland Printing On Polymers 08.02.2016
18. Prof Francis Lewu, South Africa Crop and medicinal species conservation, production and utilization 20.01.2016
19. Dr. Aji.P.Mathew, Professor, Luleå University of Technology, SE 97187, Luleå, Sweden, Nanocellulose Research 12.01.2016
20. Dr Apala Majumdar, Associate, Professor (Reader) and EPSRC Career Acceleration Fellow,, United Kingdom, Problems in nonlinear elasticity, colloidal systems and nanoparticles systems. 08.12.2015
21. Dr. K.I. Suresh, Polymers & Functional Materials Division, CSIR-Indian Institute of Chemical Technology, Hyderabad) on the topic "The Emulsion Polymerization :The Green Approach to Functional Polymers" 01.12.2015
22. Dr. Venkata Gopal Reddy Chada Chief Manager- Technology), Asian Paints, Paints and Colours 14.09.2015
23. Dr. Gregor Filipič from Slovenia ,Plasma for controllable surface modifications and nanosynthesis, 24.08.2015
24. Dr. Vinayan B P, Helmholtz Institute Ulm, Karlsruhe Institute of Technology, Germany Development of suitable electrolyte for metal sulfur battery, fabrication of high capacity and long cyclic stability sulfur electrode materials and different electrochemical phenomenon within this system. 09 .07.2015
25. Dr. Jacob John, Impact of Globalization on National and International Affairs. 22.06.2015
26. Prof .Vijaya Mohanan Pillai Director, CSIR-CECRI , Central Electrochemical Research Institute, Karaikudi-630003, Tamil Nadu, India ,Nanomaterials for Energy Applications 30.04.2015
27. Dr. Praveen G. L (University of Kerala) on the topic "Nanocomposites for Biomedical Applications" 29.04.2015
28. Volker Ribitsch (University of Graz. Austria) 21.04.2015
29. Mohamed Mehdi CHEHIMI Research Director at French CNRS, Leader of the Surface & Interface research team, Université Paris, France 06.03.2015
30. Dr. Maciej Jaroszewski (Head of High Voltage Laboratory, Wrocław University of Technology, Poland), Impedance Spectroscopy 30.01.2015



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| | 31. Prof. Suryasarathi Bose,(IISC, Bangalore)26.01.2015 |
| | 32. Prof. Benjamin S Hsiao (Department of Chemistry, Stony Brook University, New York)"Breakthrough Water Purification Technologies based on Nanofibrous Membranes"20.01.2015 |
| | 33. "Prof. (emerit.) Dr. Werner Mormann, Universität Siegen" Ionic liquids and cellulose – a perfect green combination11.12.2014 |
| | 34. AASHISH ROY(Postdoctoral Fellow, Department of Materials EngineeringIndian Institute of Science) Conducting polymers for Sensor applications19.11.2014 |
| | 35. Prof. Renata Dantas, University of Campinas, Sao Paulo, Brazil"Ozonation for water and waste water purification"1.10.2014 |
| | 36. Prof. P.M.G.Nambissan, Saha Institute of Nuclear Physics Kolkata" The Indian legacy of the evolution of science"17.09.2014 |
| | 37. Dr.Rajesh A. Shenoi, University of British Columbia, Vancouver BC, Canada"Designing multifunctional dendritic polymers for macromolecular therapeutics"22.08.2014 |
| | 38. Dr. Suresh.S. Pillai of Environmental Nanotechnology Division, Institute of Technology, Sligo, Ireland,"Nano materials for Environmental Application"13.08.2014 |
| | 39. Dr.T.Sidhu, University of Ontario Institute of Technology,Canada,Research Opportunities at University of Ontario Institute of Technology, Canada"31.07.2014 |
| | 40. Dr. Ali Kareem al-lami, Misan University, Iraq "Preparation and Mesomorphic characterization of supramolecular hydrogen bonding dimer liquid crystals"24.07.2014 |
| | 41. Dr. Salim Albukhaty Transfection of NSCs Neural Stem Cells by BDNF gene using Nano Carrier System"22.07.2014 |
| | 42. Dr.Bharath Rajaram –Application Scientist –TA USA Recent Trend in Rheological Characterization using Rheometer & DMA18.07.2014 |
| | 43. Dr. Burkhard Fechner, Coherent GmbH on"Recent trends in Excimer lasers in PLD and Nano applications"15.07.2014 |
| | 44. Dr. Chaitanya Lekshmi Indira, Associate Professor, Department of Chemistry, CMR Institute of Technology, Bangalore,"Nanoscale Heterostructures: Material Design & Functional Property Understanding for Nanoelectronic Applications"20.06.2014 |
| | 45. Dr. Maya Padivattathu Multiscale Material Modelling- Approach and Application07.04.2014 |
| | 46. Dr. Abjith Saha , UGC- DAE Kolkata Centre27.03.2014 |
| | 47. Prof. Tamio Endo Mie University, Japan"Fabrication of La(Ba,Sr)MnO ₃ /ZnO Heterostructures and Electrical Junction/Switching Characteristics"25.03.2014 |



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| | <p>48. Dr. A. V. Ravikumar, Indian Institute of Plasma Research “Applications of Accelerators” 14.03.2014</p> <p>49. Dr. Chan Chin Han, University Technology MARA, Malaysia “Natural Rubber based polymer blends: Thermal and Mechanical properties and morphologies.” 28.02.2014</p> <p>50. Dr. Tamilselvan, Institute of Chemistry, Division of Surface and Interface Science, University of Graz., Austria, “Advanced polysaccharides Composites” 25.02.2014</p> <p>51. Dr. Arup Chandra, Apollo Tyres 22.02.2014</p> <p>52. Dr. Suresh. G. Adwani, Associate Director, Center for Composite Materials, University of Delaware, USA, “Multi-scale Modeling and Simulation of Composite Manufacturing Processes” 28.01.2014</p> <p>53. G S Murthy (GM, Forevision Instruments, Hyderabad) Talk on AFM 21.01.2014</p> <p>54. Mr. Shyam Panamoottil, Centre for Advanced Composite Materials (CACM), Auckland, New Zealand “Multiscale modelling to predict the failure behaviour of flax-fibre composites from fibre, matrix and interface properties” 27.12.2013</p> <p>55. Dr. Nguyen Van Son “Dispersion of nanoparticles in solution” 01.08.2013</p> <p>56. A K Sinh, Anton Paar, India “Rheology and its applications” 25.06.2013</p> <p>57. Prof. (Dr) C M. Narayan, Professor of Chemical Engineering, National Institute of Technology, Durgapur, India “Biodiesel Synthesis from Micro-Algae oil” 22.06.2013</p> <p>58. Dr. Shams Khwaja, Adjunct Professor of Law, Constitutional Law Lab, USA “Discovering a Road Map for Nanotechnology law and Regulation for India” 20.06.2013</p> <p>59. Dr. Ramesh, “NMR of Carbon Skeleton” 17.06.2013</p> <p>60. Dr. Achutha Prabhu “Irreversible aggregation of patchy colloidal particles: A computer simulation study” 19.06.2013</p> <p>61. Dr. Rajan Babu The Ohio State University U S A) “Asymmetric Catalyzed Reactions of Alkenes and Small Ring Compounds” 18.05.2013</p> <p>62. Dr. Aji P Mathew, Division of wood and Bionanocomposites, Lulea university, Sweden Bionanocomposites 06.07.2012</p> |
| IUIC | <p>1. National Workshop on Frontiers of Spectroscopy and Microscopy-2012</p> <p>2. National Workshop on Mass Spectrometry-2013</p> <p>3. National Workshop on Mass Spectrometry and Raman Microscopy, NWMR-2015</p> |



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| IUCSSM | <ol style="list-style-type: none"> 1. International ensemble on science of Music was organized during 23-27 September 2015 at Kottayam 2. Arranged an invited talk by G.S. Paul on the topic "Mathematical analysis of Swaras in Octave" on 30-03-2016 |
| AMMRC | <ol style="list-style-type: none"> 1. National workshop on Fundamentals and applications of Material Science in collaboration with KSCSTE, Trivandrum in March 2016 |
| CHPC | <ol style="list-style-type: none"> 1. Conducted Computer Training Programme in Linux to teaching and nonteaching staff of the University. The training includes, Ubuntu OS, Writer, Calc and Internet. 2. 13 batches with 30 participants each were provided training in computers. |
| IIRBS | <ol style="list-style-type: none"> 1. Workshop on Main group and Organometallic Chemistry on October 24 – 26, 2016 2. One day International Symposium on Concurrent methodologies in Organic Synthesis - in honour of Prof. Ei-ichi Negishi (2010 Chemistry Nobel Laureate, Purdue University, USA) on 13th February 2016 3. National Workshop on "NMR Spectroscopy", 10th - 13th September 2014. 4. Lecture series on "Liquid Chromatography", 9th - 18th December 2013. 5. Workshop on High Performance Liquid Chromatography (HPLC), 4th & 5th November 2013. 6. Lecture on "High Performance Liquid chromatography (HPLC), 4th - 12th November 2013. 7. Workshop on High Performance Liquid Chromatography (HPLC), 30th April – 2nd May 2013. 8. Workshop on "Nuclear Magnetic Resonance: Theory and Application", 24th - 26th January 2013. 9. Lecture on "Boron based organic chemistry", 7th - 19th January 2013. 10. Lecture on "Boron and Gadolinium Neutron Capture Therapy for cancer treatment", 16th-17th December 2012. 11. Lecture on "Organometallic and Bio-inorganic Chemistry", 10th-14th December 2012 12. Lecture on "Structural Topology Optimization with applications in structural engineering and biomechanics", 12th December 2012. 13. Symposium on "Thoughts on Traditional and Genome based Human History" 6th November, 2012. 14. Advanced Materials Characterization Techniques, May 21st - 25th, 2012 15. Seminar on Research and Development in Chemical Process Development, 22nd Sept., 2012 16. Application of Magnetic Resonance Spectroscopy in scientific research., 10th Sept. 2012 |



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| | <p>17. Seminar on Metal Mediated Organic Synthesis, 4th Sept.2012</p> <p>18. Patenting research findings, 10th August.,2012</p> <p>19. Seminar – A review on Renewable Energy Technologies, 17th July., 2012</p> <p>20. Talk - Organic Chemistry and Pharmaceutical Industry, 24th April, 2012</p> <p>21. Seminar on Application of two dimensional NMR in the structural elucidation of biomolecule</p> <p>22. Summer Workshop on Computational chemistry, May 28th - 31st, 2012</p> <p>23. Workshop on Advanced Materials Characterization Techniques, 21st - 25th May, 2012</p> <p>24. Science Academies' Lecture Workshop on Quantum Mechanics, Molecular- Resonance Spectroscopy and Hands-on Experience in Spectroscopy, March 1 – 3, 2012</p> <p>25. English Language Skill Workshop, December 22 – 23, 2011</p> <p>26. Seminar on Genetic Structure of Indian Jewish Diaspora, October 27 – 28, 2011</p> |
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Appendix II (Question 24-Table I)

| SI No. | Details of Awards received by Faculty | Details of Awards received by Alumni/Students |
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| School of Behavioural Sciences | | |
| | <p>Dr. Razeena Padmam Mahila Thilakom award instituted by Govt. of Kerala</p> <p>Dr. P.T Baburaj Best poster presentation award in the International Conference on Inclusive Education, Jan 11 & 12, 2012 organized by the Department of social work, Assumption College Changanacherry, Kerala</p> <p>Ms. Rincymol Mathew Best poster presentation award in the UGC sponsored National Seminar on Ageing and Society, on 4&5 October, 202 organized by ST. Theresa's College, Ernakulum, Kerala.</p> <p>Best poster presentation award in National Conference on Models of Best Practice in Empowerment of Persons with Disabilities, 16-17, October 2015, jointly organized by the National Institute for Empowerment of Persons with Disabilities, Rehabilitation Council of India, and School of Behavioural Sciences, Mahatma Gandhi University, Kottayam, Kerala</p> <p>Sri. Rajesh E Public service award awarded by Confederation of Epidemiological Associations, (CEA) India</p> | Nil |
| School of Biosciences | | |
| | <p>Dr. E. K Radhakrishnan: Honoured presentation of "Bharat Gaurav Award" by India International Friendship Society, May 2016</p> | <p>Rohini Sabu: Young scientist award for the best paper in the National seminar on Diversity of Microbes and Climate Change mitigation held during 3rd-5th February 2016 organized by Catholicate College, Pathanamthitta</p> <p>Jimtha John C: Best paper award in UGC Sponsered National seminar on progress and prospects of Biotechnology, at St. Josephs College, Irinjalakuda on 14th and 15th January, 2016.</p> <p>Tijith K George, Haseena: Best paper award in the National Seminar on Plant science Technology for sustainable world -2016</p> |



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| | <p>Glindya Bhagyalakshmy: Best paper presentation award. National Seminar on "Food Safety in India-Current Issues and Career Prospects" 2015</p> <p>Divya.R: Best paper presentation award Biovision 2014</p> <p>Aju K.Ashok. Best poster award (Life Science) 23rd Kerala Science Congress held on January 29-31, 2011</p> <p>Aswathy Agnes Joseph: First Prize for poster presentation at the 24th Kerala Science Congress, organized by Rubber Board., Kottayam, Kerala, India on 29-31, January 2012.</p> <p>Roshmi Thomas: First Prize for Paper presentation, at "Nanotechnology: Applications of Nanomaterials in Agriculture, Food and medicine, 25-26 July organised by BK College, Amalagiri, Kottayam.</p> <p>Jasim B: First Prize for Paper presentation at the "National Seminar on Advanced Biochemical Techniques: Relevance in Interdisciplinary Research Scenario" on September 3-4, organized by B.K. College, Amalagiri, Kottayam.</p> <p>Anisha C: Best Poster Award at the International Seminar on Emerging Trends in Organic Farming and Sustainable Agriculture organized by IUCOFSA, Mahatma Gandhi University, on 29th 31st Dec, 2016</p> <p>Rosemin Benny: Best paper award for Rosemin Benny at 25th Swadheshi Science congress December 2015.</p> |
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| School of Chemical Sciences | |
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| <p>Prof. Sabu Thomas:</p> <ol style="list-style-type: none"> 1. Distinguished Professorship Award Josef Stefan Institute, Slovenia, 2010 2. Fellow of the Royal Society of London, FRSC, 2012 3. Awarded Bronze Medal of Chemical Research Society of India, 2013 4. Awarded Materials Research Society of India Award (2013) 5. Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014 6. Honorary doctorate (D.Sc.) from the University of South Brittany, Lorient, France (2015) 7. Awarded Loyalty Award "International Materials Technology Conference Exhibition" May 2016 & Honourable member of IMTCE, Loyalty Award Club (Membership Number -IMTCE-LC-017 8. Awarded Dr. APJ Abdul Kalam Award for Scientific Excellence – 2016 <p>- Mahatma Gandhi University- Award for Outstanding contribution –November 2016</p> <p>Dr. Raju Francis: UGC Research Award, 2012</p> <p>Prof. Suresh Mathew :</p> <ol style="list-style-type: none"> 1. Rudolph A Marcus Award 2016 in Chemical Sciences by Lognor, Publishers of Science Advances Today 2. Nanoscience Research Leader Award 2015 by Cognizure Publishers, hostess of the International Journal – Science Letters <p>Dr. G. Anilkumar :</p> <p>Second prize in the Evonik Industries Chemistry Research Proposal competition ECRP 2016, Germany</p> | <p>Divya Mathew:</p> <ol style="list-style-type: none"> 1. Best poster award for Kinetic Study on the Catalytic Amidolysis of Z-L-Phe-PNA Using Phosphonate Analogue Imprinted Polymer Catalysts as Chymotrypsin Mimics (<i>National Seminar on Phytochemistry An Emerging Branch for the Development of Potential Anticancer Drugs</i>, Assumption College, Changanasserry, September 2015) 2. <i>Best poster award</i> for Kinetic Studies on Hydrolytic Activities of Polymer Supported Enzyme like Catalysts in the Amidolysis of Z-Tyr-Gly-OCH₃ (<i>Recent Trends in Spectroscopy: A Chemical and Biological Perspective-II</i>, Newman College, Thodupuzha, 13-14 September 2015)- 3. <i>Best poster award</i> for Effect of the Nature and Extent of Crosslinking on Catalytic Amidolysis of Z-L-Tyr-PNA Using Chymotrypsin Mimics (<i>National Seminar on Advanced Functional Materials</i>, Mar Athanasius College, 15-16 September 2015)- 4. Kinetic Study on the Catalytic Amidolysis of the Dipeptide H-Tyr-Gly-OH Using Boronic acid Analogue Imprinted Chymotrypsin Mimics (<i>RTSB, Recent Trends in Organic Synthesis and Chemical Biology</i>, Annamalai University, Department of Chemistry, October 2015)- <ul style="list-style-type: none"> • Deepalekshmi Ponnammam Best Poster Presentation Award in "National Seminar on Recent Advances in Polymer Science and Technology-2012" Organized by: Society for Polymer Science India and Mar Ivanios College Trivandrum, India • Deepalekshmi Ponnammam Best Oral Presentation Award in "National Conference on Nanostructured materials and Nanocomposites (NCNM) 2012" Sponsored by UGC, at NSS College, Ottapalam, Kerala, India |



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| | <ul style="list-style-type: none">• Cintil Jose Best paper award for the paper entitled “<i>Novel approach for the development of cellulose nanowhiskers from isora fibre</i>” at the National Seminar on ‘Emerging Trends in Chemistry’ held at St. Joseph’s College, Moolamattam on 25th February 2012• Sooraj M. P., Emerging Trends in Polymeric Materials (ETPM 2014) organized by The Society for Polymer Science, India and Christian College, Chengannur, Kerala, January 2014 – Best Poster Award• Sooraj M. P., “3rd International Science Congress (ISC 2013)” organized by International Science Congress Association, Karunya University, Coimbatore, December 2013 – Best Poster Award.• Sooraj M. P., International Conference on Advances in Material Science (ICAMS 2013)” sponsored by OPCW, DRDO, KSCSTE, Sree Snakara College, Kalady, October 2013 – Best Poster Award• Sooraj M. P., National Seminar on “Advances in Chemistry-Research and Opportunities” sponsored by KSCSTE, All Saints’ College, Trivandrum, August 2013 – Best Paper Award• Runcy Wilson- Best Paper Award- National Seminar on Advanced Polymer Materials , Organized by Department of Polymer Engineering Mahatma Gandhi University College of Engineering, Muttom, Thoupuzha, Kerala September 11&12, 2015 |
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| | | <ul style="list-style-type: none"> • Deepalekshmi Ponnammam, Selected as an invited speaker for the "Polymer Conference for Young Researchers (PCYR-14)" held at CSIR-NIIST • Amrutha P Thankachan Best Paper Award A Novel Protocol for the Formation of C-S Bonds Using Zn(II)-Catalysts" in the UGC sponsored 13th Prof. K. V. Thomas Endowment National Seminar on New Frontiers in Chemical Research" Conducted at S. H. College Thevara, Ernakulam, on 4-5 December 2014 • A M. Thomas Best Paper Award for Novel Protocol for Ullmann C-O Coupling Reactions Under Aerobic Conditions , Proceedings of the National Seminar on Recent Trends in Chemistry, 6-7 November, 2014, Baseli College, Kottayam, Kerala • Amrutha P Thankachan Best Paper Award for Novel zinc-catalyzed C-S cross coupling reactions of aryl halides with aryl thiols " in the UGC sponsored National seminar " Chemistry for Tomorrows world " Conducted at B. K. College Amalagiri, Kottayam on 22-23 January 2015 • Jeena Abraham, International Conference Nanoscience and Emerging Applications (ICONSEA) organized by Centre for Nanoscience and Technology, Jawaharlal Nehru University, Hyderabad, June 26-28, 2014 • Jyotishkumar Parameswaranpillai Best poster award- International conference, ICMST October 29-31, 2010 Trivandrum (IIST). Thermal and mechanical properties of poly(acrylonitrile butadiene styrene) modified epoxy/amine systems |
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| | | <ul style="list-style-type: none"> • Deepalekshmi Ponnammamma Selected as an invited speaker for the "Polymer Conference for Young Researchers PCYR-14)" held at CSIR-NIIST Elastomer nanocomposite • Runcy Wilson Best Paper Award, National Seminar On Advanced Polymer Materials(SCENTIA), Organized By Department Of Polymer Engineering Mahatma Gandhi University College Of Engineering, Muttom, Thoupuzha, Kerala 2013 , • Cintil Jose Young researcher award International conference on 'Functional Polymers 2011' held at NIT CALICUT organized jointly by the Department of Chemistry, NIT Calicut & Leeds University, UK "A cost effective approach for the development of cellulose nanowhiskers |
| School of Environmental Sciences | | |
| | <p>Dr. C.T. Aravindakumar</p> <ol style="list-style-type: none"> 1. Visiting Professor at the University of Paris-East with full professor status, 2015 2. an invited member of the Oslo Governance Forum (OGF), Oslo (UNDP) 2011 3. Visiting Professor (with full Professor status) at the University of Paris-East (Department of Geology and Environment) 2013 4. Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies-2014 5. Team Leader in Environmental Science to formulate the research policy of the Ministry of Earth Science in India's Polar Research (Arctic/Antarctic/Southern Ocean/Himalaya) for the next 10 years. The Brainstorming Meeting on Polar Sciences and Global Water Cycle was held at the National Centre for Antarctic and Ocean Research (NCAOR), Goa during April 13-14, 2016. 6. Invited as an expert for identifying research proposals for the India's 36th Antarctic Expedition 2016. The workshop was held during June 9-10, 2016 | <ul style="list-style-type: none"> • Sruthy S: Dr. Satheesh Memorial Young Scientist Award for best paper presentation in 11th Kerala Environment Congress (KEC-2015), 6th to 8th may 2015 organized by Centre for Environment and Development, Kottayam, Kerala • Daniya M. Thomas: selected to Brown International Research Institute (BIARI), Brown University, USA – 2013 with full support • G. Akhil: <ol style="list-style-type: none"> 1. Best Paper Awards in the International Conference on Water: From Pollution to Purification, Jan.23-26, Kottayam 2. Best Paper Awards in the 26th Kerala Science congress, January, Wayanad, 2014. 3. Best Paper Awards in 5th Asian Conference on Colloid and Interface Science, Darjeeling, November, 2013. |

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| | <p>7. Nominated to the Expert Panel of the Water Technology Initiative (WTI) of the Department of Science & Technology, Govt. of India 2015</p> <ul style="list-style-type: none"> • Dr. Mahesh Mohan: <ol style="list-style-type: none"> 1. DST-SERB Fast Track Project for Young scientist 2. Selected for Indian Arctic Expedition 2013-14 3. Selected for Indian Arctic Expedition 2014-15 4. Team leader as Indian Arctic Expedition (July, 2015) • Dr. Syllas V.P: <ol style="list-style-type: none"> 1. Visited Brown International Advanced Research Institute (BIARI) – 2013 (June 06 – 24), Brown University, USA with full support. | <ul style="list-style-type: none"> • P. R. Manoj: <ol style="list-style-type: none"> 1. Best Paper Awards in the third International Conference on Advanced Oxidation Processes, Sept.25-28, Munnar 2. Best Paper Awards in the International Conference on frontiers of mass spectrometry (ICMS 2013), Sep.6-9, Kottayam, 2013 • Jisha C: <p>Best Paper Awards in the International conference on Nano -biomaterials, Kottayam, 2014.</p> • Shibin N. B: <p>Best Paper Awards in the National Symposium on Radiation and Photochemistry (NSRP-2013), North Eastern Hill University, Shillong, March 20-22, 2013</p> • Shoniya Thomas: <ol style="list-style-type: none"> 1. Best Paper Awards in the National symposium on radiation and photochemistry, NSRP-2013, Shillong, March 20-22, 2013 2. Best Paper Awards in the International Conference on Advanced Oxidation Processes, Oct.5-8, Kottayam, 2012. • T.V. Divyalakshmi: <ol style="list-style-type: none"> 1. Best Paper Awards in the second international conference on membranes, Kottayam, October 4-6, 2013 2. Best Paper Awards in the Proc.- International conference on membranes: Environmental and biological applications, Sept.16-19, 2011 • Nikhil Chandra: <ol style="list-style-type: none"> 1. Best Paper Awards in the National Seminar (NSNano 2013), SN College, Kollam 2. Best Paper Awards in the National Seminar on Green Chemistry-The Ultimate tool for pollution control Changanasserry, February 14-15, 2012 • Siju Abraham: <ol style="list-style-type: none"> 1. Best Paper Awards in National seminar on green chemistry-The ultimate tool for pollution control, |
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| | | <p>Changanacherry, February 14-15, 2012.</p> <p>2. Best Paper Awards in the National seminar on sustainable development: Recent trends in meeting the challenges (NSSD-2012), Kottayam, January 20-21, 2012.</p> <p>• M. M. Sunil Paul: Best Paper Awards in the Trombay Symposium on Radiation and Photochemistry, January 5-8, Mumbai, 2012.</p> |
| School of Gandhian Thought & Development Studies | | |
| | <p>• Dr. C. R. Harilakshmeendrakumar: GICSNA (Government of India Certified Senior Naturopath Association) National Award for the contributions rendered to the academic propagation of Yoga & Naturopathy in the national and international level.</p> | |
| School of Indian Legal Thought | | |
| | <p>• Dr. George Joseph :</p> <ol style="list-style-type: none"> 1. Prestigious award of Scroll of Honour from the International Council of Jurists London, 2014, taking into account his contributions in International Law, Academic year 2013-2014 2. Sevanaratnam Puraskaram, 2011 from Nethaji Smaraka Samathi Trivandrum | <p>• Anathakrishnan A Kartha Best Mooter award in the One week Summer School Programme organised by European College of Law and Common Wealth Legal Education Association at London (2015 -2016)</p> <p>• Department students team:</p> <ol style="list-style-type: none"> 1. Best Team award, in the National Competition on Alternative Dispute Redressal Mechanism held at Govt. Law College Ernakulam. (Academic year 2012 -2013) 2. The best script memorandum, in the National Competititon on Alternative Dispute Redressal Mechanism held at Govt. Law College Ernakulam. (Academic year 2012 -2013) 3. Runner up in the in NALAM 2015 conducted by NUALS, (Academic year 2015 -2016) 4. Winner, in the Ratio Decidendi Judgment Analysis Competition organized by Bharat Matha School of Legal studies 48rganized in 2015 |



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| | | <p>5. Winner of best article containing anti drug theme instituted by the Excise department, GOK for the year 2016</p> <p>6. Selected for the Best magazine on the theme Anti-Drugs Campaign by the Excise Department, GOK, for the year 2016.</p> |
| School of Letters | | |
| | <ul style="list-style-type: none"> • Dr. P.S Radhakrishnan : National film award (best film critic) by the Govt. of India for the year 2014. • Dr.Aju K N : Dr. B R Ambedkar National fellowship award by Bharateeya Dalit Sahithya Academy, New Delhi in 2012. • Dr.Saji Mathew: Research Award from UGC (2014-16). <p>Dr.Aju K N :</p> <ol style="list-style-type: none"> 1. Research Award from UGC (2012-15) 2. Kerala state film award 2012-13 3. Received Literary Award (2016) 4. Received Kerala State film award (2015-16) <ul style="list-style-type: none"> • Dr. Jose K. Manual Received Kerala State film award (2015-16) | <ul style="list-style-type: none"> • Siddharth Siva Ph.D. Scholar received National film award for the film “Noottonnu Chodyangal”(2014). • Students team: The School of Letters won the first prize in the literary quiz conducted in connection with Sahiti, Thunchath Ezhuthachhan Malayalam University Tirur, February 2014. |
| School of Management and Business Studies | | |
| | <ul style="list-style-type: none"> • Dr. Afsal E.M.: <ol style="list-style-type: none"> 1. AIMS-NMIMS Outstanding Paper Award at the thirteenth International Conference on Management organized during 19-22 December 2015 at Indua business Academy, Bangalore 2. Award for Best Doctoral Paper Presentation in the AIMS-International Conference on Management held on 2009 December 20-23 at IIM Bangalore,2009 | <ul style="list-style-type: none"> • Radhika PC & Johny Johnson: Received the best paper award at the International Conference organised at SNGCE, (2013) • Jominy Joice & Siby Zacharias: Career Management in Changing Career Context’, Trends and Challenges in Indian Business Management, Jominy Joice & Siby Zacharias,; International Conference, Placitum November 6 &7, 2014 • Brijesh George John & Siby Zacharias A Study on Online Jewellery Sales in India’ International Conference on Advanced Management- Challenges in Knowledge Era, 8th & 9th January 2015, AMAL Institute of Management, Bharathidasan University |



| School of Pedagogical Sciences | | |
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| | <ul style="list-style-type: none"> Dr. Celine Pereira Best Teacher Educator Award of Council of Teacher Educators in 2013 | <ul style="list-style-type: none"> Dr. Varghese P. Peter National Best Teacher Award in 2013-14 Mrs. Sindhu P.G: Best Paper Presenter Award by Council of Teacher Educators in 2014 Mrs. Sreeja Swas : Best Paper Presenter Award by Council of Teacher Educators in 2013 |
| School of Physical Education & Sports Sciences | | |
| | <ul style="list-style-type: none"> Dr. Binu George Varghese Letter of Appreciation from Secretary Sports, Government of Kerala for the excellent performance of Kerala team in 35th National Games and for meticulously discharging the responsibilities of Secretary, Kerala State Sports Council during my tenure from 2014-2016. | |
| School of Pure&Applied Physics | | |
| | <ul style="list-style-type: none"> Dr. Antony S UGC research award 2015 | <ul style="list-style-type: none"> RitheshRaj: Best Oral presentation by at the National seminar on Advances in Crystal Growth and Nanotechnology held at CSM College Kottayam during Jan 15-16,2016 RaneeshB: Second position in poster presentation, The second international conference on Opto electronic materials and Thinfilms for Advanced Technology (OMTAT2013), Cochin University of Science and Technology, Cochin, January 3-5, (2013) Ms Rehana P Ummer: Best award for oral presentation, 15th National Symposium on Material Science, IIT Bombay, Mumbai May 18-24 (2015) Ann Mary KA: Best paper Award in Physical Science in the 26th Kerala Science Congress held at Kerala Veterinary and Animal Science University Wayanad during 28 to 31 Jan 2014 |



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| | | <ul style="list-style-type: none"> • PrasanthS: Best poster Presentation award to, in the national seminar on Photonics and Its application held at University of Kerala during Dec 9-11 2015 • RemyaMohan: Best Poster Award for at the National Seminar on nano-scale Science & Technology, Devamatha College, Kuravilangad 2015 • El HadjiMamourSakho: Best Poster Award at the International Conference on Advanced Materials for Power Engineering 2015 conducted by Wroclaw Technical University & Mahatma Gandhi University 2015 |
| School of Social Sciences | | |
| | <ul style="list-style-type: none"> • Dr. Raju S: UGC Research Award | |
| Department of Lifelong Learning and Extension | | |
| | <ul style="list-style-type: none"> • Dr. Sabukuttan <ol style="list-style-type: none"> 1. Received Life time Achievement Award in 2014 for promotion of yoga and Naturopathy from the Indian Martial Arts Academy Thrissur, Kerala 2. Received Sarojini Damodar Foundation Award twice for the recognition of his service in propagating Organic Farming in 100 affiliated colleges under Mahatma Gandhi University during the year 2016 and also for the academic contributions in spreading the message of Organic Farming by starting Certificate and Diploma Courses at the University. 3. Received Certificate of Honour for the incredible contributions in Social Service for the years 2012-13,2013-14 and 2014-15 by Kerala Action Force, Anwar Pain and Palliative Care and IMA Madhya Kerala 4. Received the Youth Promotion Award 2014 from the Centre for Research and Action (CIRA) in recognition of Significant Contribution in the field of Youth Development 5. Received the Best Programme Co-ordinator Award during the year 2013-14 and 2015-16 6. Received the Kamala Dalam Award in 2016. | |



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| | <p>7.</p> <p>8. Received Synergy Award for the Empowerment of Youth in 2016</p> <p>9. Received Indira Gandhi NSS Award for the year 2013-2014 for the Best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee.</p> <p>10. Received Indira Gandhi NSS Award (Certificate of Appreciation) for the year 2012-2013 for the best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee.</p> <p>11. Received the IPCAI National Award for the outstanding contributions in the field of Community Organisation through National Service Scheme of Mahatma Gandhi University in November 2016.</p> | |
| International and Inter University Centre for Nanoscience and Nanotechnology | | |
| | | <p>• Robin Augustine :</p> <ol style="list-style-type: none"> 1. Best poster award, International Conference on Membranes (ICM-2013), MGU; Best poster presentation in Second International Conference on Nanomaterials: Synthesis, Characterization and Application India- 2013, MGU. 2. Best Poster Presentation Award - International Conference on Advanced Nanocomposite for Construction Materials (ICNC-2013), MGU; Best oral presentation award -International Conference on Tissue Engineering and Regenerative Medicine (ICAPM-2013) National Institute of Technology, Rourkela, Odisha 3. Best poster award-Bioradiance 2014 (National level seminar), organized by the Pushpagiri Research Centre, Tiruvalla, Kerala.; Third prize for poster presentation ,2nd International Conference of Nano Materials(ICNM)2014, MGU <p>• Jemy James:</p> <p>Best Oral Presentation - International Conference On Plasma Science And Nanotechnology, & 29th National Symposium On Plasma Science And Technology, MGU</p> |

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| | | <ul style="list-style-type: none"> • Preetha Balakrishnan: Best Oral Presentation Award -National Seminar on Material Science and Modern Analytical Techniques on 26th&27th of March 2014 • Dr.Praveen.G: <ol style="list-style-type: none"> 1. Best Oral Presentation Award, National Seminar On Biopolymers And Green Composites (BPGC-14); 2. Best Oral Presentation Award, National Seminar On Nanochemistry And Nanobiotechnology (Nanochembio-14); 3. Best Poster Presentation Award (Prof. D.M. Vasudevan Award),In Bioradiance-2015 'National Conference On Frontiers In Diabetic Research And Treatment' ; 4. Best Oral Presentation Award , UGC Sponsored National Seminar On “Emerging Trends In Nanomaterials” 5. Best paper award ,28th Kerala Science Congress,2016 • Jiji Abraham : Best Paper Award - National Seminar on Nanostructured Materials (NSM2014),5: Best Paper Award, National Seminar On Advanced Polymer Materials(Hesperos 2015), MGU • Blessy Joseph: Best Poster Prize International Conference On Holistic Medicine -ICHM 2015, MGU |
| Advanced Centre of Environmental Studies and Sustainable Development (ACCESSD) | | |
| | | <ul style="list-style-type: none"> • Sijumon V.A Best poster award in the National symposium on radiation and photochemistry, NSRP-2013, Shillong, March 20-22, 2013; Best poster award in the National seminar on sustainable development: recent trends in meeting the challenges, NSSD-2012, Kottayam, 2012; Best poster award in the National seminar on green chemistry-The ultimate tool for pollution control, Kottayam, 2012. • Jisha C Best paper in the International conference on Nano -biomaterials, Kottayam, 2014. |



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| | | <ul style="list-style-type: none"> • G. Akhil Young scientist award, in the 26th Kerala Science congress. 2014, Best paper award in the 5th Asian Conference on Colloid and Interface Science, University of North Bengal, Darjeeling. 2013, Best paper award in the International Conference on Water: from pollution to purification, Kottayam, Kerala, Jan. 23-26, 2015. |
| Institute for Intensive Research in Basic Sciences (IIRBS) | | |
| | <ul style="list-style-type: none"> • Prof (Dr.) I. Ibnusaud: Best paper award for the paper presented in ‘Chirality 2004’ held at New York University, New York U.S.A.(2004). | |
| KN. Raj Centre for Planning and Centre-State Relations | | |
| | <ul style="list-style-type: none"> • Girish Kumar R: Jean Monnet Fellowship, European University, Florence, Italy 2010 (International Level) Ministry of Trade and Commerce, WTO Chair Professor, Central University of Kerala (National Level) | |
| National Institute of Plant Science Technology | | |
| | | <ul style="list-style-type: none"> • Alan Thomas S: Best paper presentation award at International seminar on emerging trends in organic farming and sustainable agriculture held at Kottayam during 29th to 31st December 2016 • Anto Joseph : Best paper presentation award at The National Seminar on Plant science Technology for sustainable world held at Kottayam during February 25th -26th 2016 |

Appendix II (Question 24-Table II)

| Name of School /Department | National & International recognition recieved by Faculty & Students |
|-----------------------------------|---|
| School of Chemical Sciences | <ol style="list-style-type: none"> 1. Fellow of the Royal Society of Chemistry, London, FRSC, 2012 2. Prof. Sabu Thomas was awarded Bronze Medal of Chemical Research Society (CRSI) of India, 2013 3. Prof. Sabu Thomas was Distinguished Professorship Award, Josef Stefan Institute, Slovenia, 2010 |



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| School of Environmental Sciences | <p>Faculty</p> <ol style="list-style-type: none"> 1. Dr.C.T. Aravindakumar has been selected as an invited member of the Oslo Governance Forum (OGF), Oslo (UNDP) 2011 2. Dr.E.V.Ramasamy has been nominated as a member of the <i>State Waste Management Policy Committee</i> by the <i>Local Self Government Department, Govt. of Kerala (November 14, 2012)</i> 3. Dr. Mahesh Mohan got the DST-SERB Fast Track Project for Young scientist 4. Dr.E.V.Ramasamy has been nominated as a member of the Special Board of Studies in Pollution Control and Environmental Engineering of Pondicherry University (October 26, 2012) 5. Dr.C.T. Aravindakumar has been selected as Visiting Professor (with full Professor status) at the University of Paris-East (Department of Geology and Environment) 2013 6. Prof.C.T. Aravindakumar has been selected as Visiting Professor at the University of Paris-East with full professor status, 2015 7. Prof.C.T. Aravindakumar has been nominated as the Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies-2014 8. Dr.E.V.Ramasamy has been nominated as a member of the <i>State Waste Management Policy Committee</i> by the <i>Local Self Government Department, Govt. of Kerala</i> , attended several meetings of the committee during 2014-15 9. Dr.E.V.Ramasamy has been nominated as a member of the <i>Technical Committee</i> of Suchitwa Mission , <i>Local Self Government Department, Govt. of Kerala</i> , attended several meetings of the committee during 2014-15 10. Prof.C.T. Aravindakumar, was invited as a Team Leader in Environmental Science to formulate the research policy of the Ministry of Earth Science in India's Polar Research (Arctic/Antarctic/Southern Ocean/Himalaya) for the next 10 years. The Brainstorming Meeting on <i>Polar Sciences and Global Water Cycle</i> was held at the National Centre for Antarctic and Ocean Research (NCAOR), Goa during April 13-14, 2016. 11. Prof.C.T. Aravindakumar was invited as an expert for identifying research proposals for the <i>India's 36th Antarctic Expedition 2016</i>. The workshop was held during June 9-10, 2016 12. Prof.C.T. Aravindakumar was nominated to the Expert Panel of the <i>Water Technology Initiative (WTI)</i> of the Department of Science & Technology, Govt. of India 2015 13. Dr. Mahesh Mohan was the team leader selected for the Indian Arctic Expedition (July, 2015) 14. Dr. E.V.Ramasamy, Associate Professor, has participated in the selection committee meeting of the CWRDM (Centre for Water Resources Development and Management), Kozhikode as a subject expert in the interview board for the selection of Scientist-B during July 02- 03, 2015. 15. Dr. E.V.Ramasamy, Associate Professor, has participated as the member of Board of Studies for the the B.Voc. Programme on Environmental Assessment and Remediation on Monday the 14th September, 2015, at Virudhunagar Hindu Nadars'; Senthikumara Nadar College, (Autonomous), Virudhunagar, Tamil Nadu. |
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| | <p>16. Dr E.V. Ramasamy, Associate Professor, has participated in the Technical Committee meeting for evaluating the technical presentations of the organisations who have short listed for New Technologies on 28.11.2015 at 10.30 A.M onwards at the Office of State Institute of Health and Family Welfare, Thycaud, Thiruvananthapuram, organised by Suchitwa Mission, Local Self Governance Department (LSGD), Govt. of Kerala</p> |
| School of International Relations & Politics | <p>Faculty Dr. K.M. Seethi</p> <ol style="list-style-type: none"> 1. Invited to be on the panel of the presentations at the Gulf Research meetings at the University of Cambridge in 2012, 2013 & 2016. 2. Nominated as expert Working Group on NORKA, Kerala State Planning Board in 2016. 3. Invited to be an expert at the ICSSR, New Delhi for reviewing International collaboration projects. 4. Serving as UGC expert of the Center for Advanced Studies (CAS), University of Hyderabad. <p>Researcher</p> <ol style="list-style-type: none"> 1. Best Researcher Award in Political Science granted to Ms. Anju Lis Kurian by the Indian Political Science Association in 2014-15. |
| School of Letters | <ol style="list-style-type: none"> 1. Dr. P.S Radhakrishnan received national film award (best film critic) by the Govt of India for the year 2014. 2. Dr. Aju K N received Dr. B R Ambedkar National fellowship award by Bharateeya Dalit Sahithya Academy, New Delhi in 2012. |
| School of Pure & Applied Physics | <p>Dr Indulekha K</p> <ol style="list-style-type: none"> 1. Executive Committee Member, Square Kilometer Array India Consortium 2. Visiting Associate, Inter University Centre for Astronomy & Astrophysics, Pune <p>Dr Nandakumar Kalarikkal</p> <ol style="list-style-type: none"> 1. Visiting Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India 2. Visiting Professor, Gulbarga University, Gulbarga, Karnataka under SAP scheme of UGC 3. Visiting Professor, Alemaya University & Mekkele University, Ethiopia 4. Conference Fellowship Award of the Seventh International Conference on Phonon Scattering in Condensed Matter held at Cornell University, USA <p>Students</p> <ol style="list-style-type: none"> 1. Microstructure and physical properties of multiferroic hexagonal ErMnO₃ thin films. The second international conference on Optoelectronic materials and Thin films for Advanced Technology (OMTAT 2013), Cochin University of Science and Technology, Cochin, January 3-5, (2013) - second position in poster presentation for Raneesh B (PhD student) 2. Enhanced dielectric and magnetoelectric coupling in BiFeO₃-NaNbO₃-PVDF-TrFE films, Rehana P Ummer, Raneesh B, Laurent Badie, Didier Rouxel, Sabu Thomas and Nandakumar Kalarikkal, 15th National Symposium on Material Science, IIT Bombay, Mumbai May 18-24 (2015) - best award for oral presentation to Ms Rehana P Ummer (PhD Student) |



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| | <ol style="list-style-type: none"> Best paper Award in Physical Science in the 26th Kerala Science Congress held at Kerala Veterinary and Animal Science University Wayanad during 28 to 31 Jan 2014 for the paper entitled "Ultrafast optical non-linearity in CuS nanocrystal" to Ann Mary K A Fluorescence probing Ascorbic acid by L-Cystine capped Mn_3O_4 nanoparticles Best poster Presentation award to Prasanth S, in the national seminar on Photonics and Its application held at University of Kerala during Dec 9-11 2015 SPR based Fibre Optic Mercury Sensor based gold Nano particles- Best Oral presentation by Rithesh Raj at the National seminar on Advances in Crystal Growth and Nanotechnology held at CSM College Kottayam during Jan 15-16, 2016 Synthesis and Photo-luminescence Characterization of green-red emitting $CaB_2O_4:Er^{3+}, Li^+$ phosphor –Best Poster Award for Remya Mohan at the National Seminar on nano-scale Science & Technology, Devmatha College, Kuravilangad 2015 Liquid Phase Exfoliation of graphite oxide into graphene oxide quantum dot with blue photo-luminescence – Best Poster Award for El Hadji Mamour Sakho at the International Conference on Advanced Materials for Power Engineering 2015 conducted by Wroclaw Technical University & Mahatma Gandhi University 2015 |
| School of Letters | <ol style="list-style-type: none"> Dr. P.S Radhakrishnan received national film award (best film critic) by the Govt of India for the year 2014. Dr. Aju K N received Dr. B R Ambetkar National fellowship award by Bharateeya Dalit Sahithya Academy, New Delhi in 2012. |
| School of Tourism Studies | <ol style="list-style-type: none"> Dr. Robinet Jacob, Conference chair in the annual conference of International Society of Travel and Tourism Educators, Miami, USA 20-22 October, 2011 Dr. Robinet Jacob has been nominated as Member, Expert Committee for evaluating Major Research Projects (Tourism), University Grants Commission, New Delhi, July 2014 |
| Department of Lifelong Learning and Extension | <ol style="list-style-type: none"> Dr.K.Sabukuttan received Life time Achievement Award 2014 for promotion of yoga and Naturopathy from the Indian marital Arts Academy Thrissur, Kerala Dr.K.Sabukuttan received Sarojini Damodar Foundation Award twice for the recognition of his service in propagating Organic Farming in 100 affiliated colleges under Mahatma Gandhi University during the year 2016 and also for the academic contributions in spreading the message of Organic Farming by starting Certificate and Diploma Courses at the University Dr.K.Sabukuttan received Certificate of Honour for the incredible contributions in Social Service for the years 2012-13,2013-14 and 2014-15 by Kerala Action Force, Anwar Pain and Palliative Care and IMA Madhya Kerala Dr.K.Sabukuttan received the Youth Promotion Award 2014 from the Centre for Research and Action (CIRA) in recognition of Significant Contribution in the field of Youth Development Dr.K.Sabukuttan received the Best Programme Co-ordinator Award State level during the year 2013-14 and 2015-16 Dr.K.Sabukuttan received the Kamala Dalam Award in 2016 |



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| | <p>NATIONAL LEVEL</p> <ol style="list-style-type: none"> 7. Dr.K.Sabukuttan received Indira Gandhi NSS Award for the year 2013-2014 for the best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee 8. Dr.K.Sabukuttan received Indira Gandhi NSS Award Certificate of Appreciation for the year 2012-2013 for the best NSS Programme Co-ordinator from the Hon'ble President of India Sri Pranab Kumar Mukherjee 9. Dr.K.Sabukuttan received the IPCAI National Award for the outstanding contributions in the field of Community Organisation through National Service Scheme of Mahatma Gandhi University in November 2016. |
| School of Technology And Applied Sciences | <ol style="list-style-type: none"> 1. Dr. K Shreekrishna Kumar, Eminent Educationist Award for the year 2016 awarded at Indo-American Education Summit 2016, Bangalore by the Indus Foundation 2. Dr. Shreekrishna Kumar, best Civil Servant Golden Lotus Award for the year 2016 awarded by the Business Digest Magazine. |
| IIUCNN | <ol style="list-style-type: none"> 1. Prof. Sabu Thomas has been awarded MRSI medal, 2012. 2. Fellowship of Royal Society of Chemistry, 2012. 3. Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014 |

Appendix II (Question 24 Table III)

a) Faculty serving on the editorial boards of National and International journals

| Sl. No | Name of Faculty | Details |
|--------|-----------------|--|
| 1. | Dr. Sabu Thomas | <p>Chief Editor Nano-Structures and Nano-Objects, Elsevier</p> <p>Editorial Boards:</p> <ul style="list-style-type: none"> • SM Journal of Nanotechnology and Nanomedicine • Nano Advances • Materials Science and Engineering • International Journal of Advances In Engineering Research • World Journal of Biotechnology • Journal of Emerging Materials Technology • Associate Editor, Bulletin of Materials Science • Regional Editor of the journal "Current Smart Materials". • Editor in-Chief of Editorial Board-International Journal of Science World (IJSW) • Editorial Member-Flat Chem, Elsevier • Editorial Review Board Member-International Journal of Surface Engineering and Inter disciplinary Material Science. • Journal of Molecular and Applied Bioanalysis |

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| 2. | Dr. G Anil kumar | <ul style="list-style-type: none"> • Editorial board member, Universal Journal of Chemistry • Editorial board of Horizon Research Publishing, USA |
| 3. | Dr Suresh Mathew | <ul style="list-style-type: none"> ▪ Editorial Board Member, Science Advanced Today ▪ Associate Editor, Science Letters ▪ Science of Advanced Materials (SAM) –Metal Oxide Nanostructures (2010 Special Edition) ▪ International Journal of Nanotechnology (Interscience) – ICAM-2008 (Special Edition) ▪ Reviewer of various journals of American Chemical Society, Elsevier, Pergamann Press, Springer and Cognizure |
| 4. | Dr. P S Sukumaran, | <ul style="list-style-type: none"> • Member, Editorial board, Guru Journal of Behavioural and Social Sciences. ISSN:2320-9038 |
| 5. | Dr. Rajeev Kumar N | <ul style="list-style-type: none"> • Associate Editor, Guru Journal of Behavioural and Social Sciences, ISSN:2320-9038 |
| 6. | Dr. P.T Baburaj | <ul style="list-style-type: none"> • Editorial Board member, Culture Society and Law, ISSN: 2348-1250 |
| 7. | Dr. K. Muhammad Mustaffa | <ul style="list-style-type: none"> • Editorial Board Member – International Research Journal in Psychology – Psychologist in Social Action. |
| 8. | Sri. Rajesh E | <ul style="list-style-type: none"> • Editorial board member, Medical Science:http://medicalscience.pubmedhouse.com/Home.php • Editorial board member International Journal of Physiology and Pharmacology: http://nepjol.info/index.php/IJPP • Editorial board member, Nepal Journal of Epidemiology: http://nepjol.info/index.php/NJE • Editorial board member, International Journal of Brain Research: http://nepjol.info/index.php/IJBR |
| 9. | Dr .J.G. Ray, School of Biosciences | <ul style="list-style-type: none"> • Member of the Editorial Board of two international Journals: Ecology and Noosphereology • Journal of Soil Science |
| 10. | Dr. Keerthi T.R | <ul style="list-style-type: none"> ▪ Iranian Journal of Biotechnology |
| 11. | Dr. Prakash Kumar B | <ul style="list-style-type: none"> ▪ Journal of Practical Biochemistry and Biophysics |
| 12. | Dr. E.K Radhakrishnan | <ul style="list-style-type: none"> ▪ Journal of Food & Industrial Microbiology ▪ International Journal of Advanced Research and Review |
| 13. | Dr. Bindu V.R. | <ul style="list-style-type: none"> • Member, Technical Advisory Committee, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012. ISSN: 2318-8850. |
| 14. | Dr. Anuj Mohamed | <ul style="list-style-type: none"> • Member, Technical Advisory Committee, International Journal “Mahatma Gandhi University International • Journal on Computing and Communication (MGU IJCC)”, December 2012. ISSN: 2318-8850. |



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| 15. | Dr. R. Vijayakumar | <ul style="list-style-type: none"> • Editor, International Journal “Mahatma Gandhi University International Journal on Computing and Communication (MGU IJCC)”, December 2012. ISSN: 2318-8850. |
| 16. | Dr. C.T. Aravindakumar | <ul style="list-style-type: none"> • International Journal of Chemistry (ISSN: 2249-2119) |
| 17. | Dr. M. S. John | <ul style="list-style-type: none"> • Chief Editor – Gandhi Marg |
| 18. | Dr. Sheeba Pillai | <ul style="list-style-type: none"> • Journal of Law and Legal Jurisprudential Studies |
| 19. | Dr. Rajeeesh A.P. | <ul style="list-style-type: none"> • Journal of Law and Legal Jurisprudential Studies |
| 20. | Dr. K M Krishnan | <ul style="list-style-type: none"> • Journal of Chinmaya Research Foundation. |
| 21. | Dr. Aju K N | <ul style="list-style-type: none"> • Journal of Association for Comparative Studies as well as on the Editorial Board of <i>Bhoomi Malayalam</i>, a journal published by UC College |
| 22. | Dr. Johnney Johnson | <ul style="list-style-type: none"> • Member of Review Panel , Amity Journal of Management Research (AJMR) published by Amity University, Noida, India (2015-present) |
| 23. | Dr. Celine Pereira | <ul style="list-style-type: none"> • Former Associate Editor of the Peer Reviewed Journal in Education of the School of Pedagogical Sciences, PEDAGOGICS having ISSN 2229-7618 |
| 24. | Dr. T.V. Thulasidharan | <ul style="list-style-type: none"> • Editorial Board Member of the journal of Farook Training College, ENDEAVOURS IN EDUCATION having ISSN 0976-4275 • Editorial Board Member of the International Bi-Annual Peer Reviewed Journal in Education RESEARCH DEMAGOGUE • Former Associate Editor of the Peer Reviewed Journal in Education of the Institute of Advanced Studies in Education, Thrissur, ACADEMIA |
| 25. | Dr. Minikutty A | <ul style="list-style-type: none"> • Associate Editor of the Peer Reviewed Journal in Education of the School of Pedagogical Sciences, PEDAGOGICS having ISSN 2229-7618 |
| 26. | Dr. Sajna Jaleel | <ul style="list-style-type: none"> • Editorial Board Member of the International Journal, UJER • Editorial Board Member of the International Journal, UJER |
| 27. | Dr. Binu George Varghese | <ul style="list-style-type: none"> • Editorial board member, Pesquisa Online Research Journal ISSN 2456-4052, www.pesquisaonline.net |
| 28. | Dr. K.M Seethi | <ul style="list-style-type: none"> • Editor, South Asian Journal of diplomacy (ISSN 2229-3361) • Editor, Indian Journal of Politics and International Relations (ISSN 0973-5011) • Editor, Journal of Political Economy and Fiscal Federalism, 2015 (ISSN 2395-6976) |



Appendix II (Question 24 Table IV)

Faculty serving as Reviewers:

| Sl.No. | Name of the faculty | Journal Name |
|--------|---------------------------|---|
| 1. | Dr K Indulekha | <ul style="list-style-type: none"> Journal of Astrophysics & Astronomy |
| 2. | Dr C Sudarsanakumar | <ul style="list-style-type: none"> Material Science in Semiconductor Processing Chinese Optics Letters Optics Communication Journal of Molecular Modelling HSOA Journal of Infectious and Non-infectious Diseases. |
| 3. | Dr N VUnnikrishnan | <ul style="list-style-type: none"> Journal of non-crystalline solids Materials letters Journal of analytical and applied pyrolysis Journal of luminescence Physica b: physics of condensed matter Optical materials Materials chemistry and physics Advances in chemistry and material science Materials science and engineering Applied surface science International journal of biochemistry and biotechnology Journal of modern optics Journal of the chemical society of Pakistan Journal of optoelectronics and advanced materials The journal of physical chemistry Journal of physics and chemistry of solids Journal of sol-gel science and technology Journal of theoretical and applied physics Journal of material processing technology Materials science in semiconductor processing Optics communications Spectrochimica acta part a: molecular and biomolecular spectroscopy Scientific research and essays Journal of alloys and compounds Materials research bulletin Applied optics |
| 4. | Dr. Nandakumar Kalarikkal | <ul style="list-style-type: none"> RSC Advances Journal of Sol-Gel Science and Technology Journal of Materials Science Journal of Magnetism and Magnetic Materials Solid State Sciences Journal of Industrial Textiles Colloids and Surfaces A: Physicochemical and Engineering Aspects |
| 5. | Dr Cyriac Joseph | <ul style="list-style-type: none"> Reviewer for Journal of Crystal Growth Journal of Physics and Chemistry of Solids Journal of Luminescence |



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| | | <ul style="list-style-type: none"> • Dyes and Pigments • Optical Materials • Luminescence • New Journal of Chemistry • Thin Solid Films Spectrochimica Acta |
| 6. | Dr P R Biju | <ul style="list-style-type: none"> • Journal of Luminescence • Journal of electronic Materials • Journal of Alloys and Compounds • Journal of Optical Materials • Journal of Material Science and Engineering E |
| 7. | Prof. Sabu Thomas | <ul style="list-style-type: none"> • Journal of the American Chemical Society, • Macromolecules • Journal of Applied Polymer Science • Composites Science and Technology • Journal of Thermal Analysis • Polymers and Polymer Composites • Polymer • Soft Matter • Journal. of Polymer Science Part B: Polymer Physics • Composites Part A & Part B • Polymer Composites • Polymer Engineering and Science • European Polymer Journal • Journal of Materials Science • Langmuir • Applied Clay Science • RSC advances • Biomacromolecules • Industrial crops and products • ACS Applied Materials and Interface • ACS Sustainable Chemistry and Engineering • Journal of Physical Chemistry, A, B and C • Macroletters • Nature materials |
| 8. | Dr Beena Mathew | <ul style="list-style-type: none"> ▪ Reviewer of various of journals of Wiley, Elsevier, Taylor & Francis, and Springer Publishers |
| 9. | Dr. Raju Francis | <ul style="list-style-type: none"> • Reviewer of research articles for ACS, WILEY and Elsevier journal |
| 10. | Dr KS Devaky | <ul style="list-style-type: none"> • Reviewer of various of journals of Biosynthesis |
| 11. | Dr. Jayachandran K | <ul style="list-style-type: none"> • Reviewer of Projects, KSCSTE- reviewer of Back to Lab programme of KSCSTE • Reviewer of Journals- 3 biotech, Bioresource technology |
| 12. | Dr. P S Sukumaran | <ul style="list-style-type: none"> • Review board member, Journal of Disability Management and Special Education. ISSN 2229-5143 • Review board member, Disability, CBR, and Inclusive Development |
| 13. | Dr. E.M Afsal | <ul style="list-style-type: none"> • Member of Review Panel, Journal of Applied Economics published by The University of Warwick, United Kingdom |

| | | |
|-----|-----------------|--|
| | | <p>(2009- present</p> <ul style="list-style-type: none"> • Member of Review Panel, Advances in Economics and Business published by Horizon Research Publishing, USA (2014-present) • Member of Review Panel , Amity Journal of Management Research (AJMR) published by Amity University, Noida, India (2016-present) |
| 14. | Dr. K.M. Seethi | <ul style="list-style-type: none"> • Reviewer, Millenium, Journal of London School of Economics. • Reviewer, Economic and Political Weekly. • Reviewer, Oxford University Press. |

Question 24 TABLE V

Faculty serving as members of steering committees of international conferences recognized by reputed organizations/societies

| Name of Faculty | Details of the conference |
|---------------------------|---|
| Prof. Sabu Thomas | <ol style="list-style-type: none"> 1. International Conference on Understanding Contemporary India, ICCS, Mahatma Gandhi University, January 2016 2. International Conference on Advances in applied Mathematics, Materials Science and Nanotechnology for Engineering and Industrial application.IC-AMMA-2K16, Federal institute of science and Technology (FISAT)- January 2016 3. INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS(INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH),IRAN Guilan, Iran.(2015 December) 4. 8th International Conference on Materials for Advanced Technologies of the Materials Society of Singapore and 16th IUMRS - International Conference in Asia together with 4th Photonics Conference 2015 5. 9th National Affinity Techniques Symposium” (AFFTECH 2015); “4th Nanomedicine World Congress (NANOMED 2015)” and “2nd International NanoBioTechnology Symposium” focusing also Nanomedicine (NANOBIOTECH 2015), Dalaman, Turkey & AFFTECH 2015.-2015, August 6. “XXI IUPAC CHEMRAWN - Solid Urban Waste Management, Rome, Italy.,- April,2016 7. The International Rubber Conference 2016 Kitakyushu, Japan (IRC2016 Kitakyushu)- 2016 October |
| Dr. Nandakumar Kalarikkal | <ol style="list-style-type: none"> 1. INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS(INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH),IRAN 2. International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015, Cochin University of Science and Technology, Cochin, Feb 2015. |



Appendix III (Question 25)

Outstanding Performance in sports/cultural activities in national level

| ARJUNA AWARDEES OF MGU | | |
|-------------------------------|------------------------------------|------|
| 1 | Smt. Preeja Sreedharan - Athletics | 2011 |
| 2 | Smt. Geethu Anna Jose - Basketball | 2014 |

| OLYMPIANS FROM MGU | | |
|---------------------------|---------------------------------|------|
| 1 | Smt. Anilda Thomas - Athletics | 2016 |
| 2 | Smt. O. P. Jaisha - Athletics | 2016 |
| 3 | Sri. Gopi T. - Athletics | 2016 |
| 4 | Sri. Jinson Johnson - Athletics | 2016 |

| ASIAN GAMES ATHLETES PRODUCED BY MGU | | |
|---|-----------------------------------|------|
| 1 | SRI. Jinson Jhonson - Athletics | 2014 |
| 2 | Smt. Rekha S - Volleyball | 2014 |
| 3 | Smt. Fathima Ruksana - Volleyball | 2014 |

| INTERNATIONAL SPORTS PERSONS FROM MGU | | | |
|--|-------------------------|--------------|------|
| 1 | Smt. Anu R | Athletics | 2015 |
| 2 | Smt. Saneesha E P | Athletics | 2015 |
| 3 | Smt. Poojamol K S | Basketball | 2014 |
| 4 | Smt. Vinaya Joseph | Basketball | 2014 |
| 5 | Smt. Rekha S | Volleyball | 2013 |
| 6 | Smt. Renjini C.A | Handball | 2013 |
| 7 | Smt. Aswathy E | Volleyball | 2012 |
| 8 | Smt. Thanu Mathew | Handball | 2012 |
| 9 | Smt. Maria Ronny | Table Tennis | 2011 |
| 10 | Sri. Arjun M R | Badminton | 2011 |
| 11 | Sri. Shyam Prasad | Badminton | 2011 |
| 12 | Sri. Arun George | Badminton | 2011 |
| 13 | Smt. Reshmi Bose | Athletics | 2010 |
| 14 | Smt. Megha Merin Mathew | Badminton | 2010 |
| 15 | Smt. Fathima Ruksana | Volleyball | 2010 |
| 16 | Smt. Smisha K.S. | Volleyball | 2010 |



| PARTICIPATION AT WORLD UNIVERSITY CHAMPIONSHIP | | | |
|---|-------------------------|------------|------|
| 1 | Sri. Rijas Mohammed | Volleyball | 2015 |
| 2 | Sri. Dilshad K | Badminton | 2014 |
| 3 | Sri. Suraj P H | Badminton | 2014 |
| 4 | Smt. Megah Merin Mathew | Badminton | 2013 |
| 5 | Smt. Arathy Sara Sunil | Badminton | 2013 |
| 6 | Smt. Sheena P.V | Athletics | 2013 |
| 7 | Sri. Jeris Jose | Athletics | 2013 |

| RANJI TROPHY PLAYERS PRODUCED BY MGU | | |
|---|--------------------------|------|
| 1 | Sri. Jafar Jamal | 2015 |
| 2 | Sri. Salman Mohammed | 2015 |
| 3 | Sri. Muhammed Azharudeen | 2013 |
| 4 | Sri. Sachin Baby | 2012 |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2010-11 | | | |
|--|-------------------|------|-------|
| 1 | Volleyball (W) | AIIU | First |
| 2 | Cross Country (W) | AIIU | Third |
| 3 | Badminton (W) | AIIU | Third |
| 4 | Athletics (M) | AIIU | Third |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2011-12 | | | |
|--|-------------------|------------|--------|
| 1 | Cross Country (W) | AIIU | First |
| 2 | Badminton | AIIU | First |
| 3 | Athletics (M&W) | AIIU | Second |
| 4 | Handball (W) | South Zone | First |
| 5 | Volleyball (W) | South Zone | Second |
| 6 | Basketball (W) | South Zone | Third |
| 7 | Badminton (M) | South Zone | Second |
| 8 | Table Tennis (M) | South Zone | Third |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2012-13 | | |
|--|------------|--------|
| Badminton (W) | AIIU | First |
| Athletics (W) | AIIU | First |
| Athletics (M) | AIIU | Second |
| Volleyball (W) | AIIU | Third |
| Handball (W) | South Zone | Second |
| Hockey (W) | South Zone | Third |



| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2013-14 | | | |
|--|----------------|------------|--------|
| 1 | Athletics (W) | AIIU | First |
| 2 | Badminton(W) | AIIU | First |
| 3 | Badminton (M) | AIIU | First |
| 4 | Volleyball (W) | AIIU | Second |
| 5 | Football (M) | AIIU | Second |
| 6 | Basketball (W) | AIIU | Third |
| 7 | Handball (W) | South Zone | First |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2014-15 | | | |
|--|-------------------|------|--------|
| 1 | Cross Country (W) | AIIU | First |
| 2 | Badminton | AIIU | First |
| 3 | Athletics (W) | AIIU | First |
| 4 | Volleyball (W) | AIIU | First |
| 5 | Badminton (M) | AIIU | Second |
| 6 | Basketball (W) | AIIU | Third |

| PERFORMANCE OF MGU TEAM IN INTER UNIVERSITY CHAMPIONSHIPS 2015-16 | | | |
|--|------------------|------------|--------|
| 1 | Athletics (W) | AIIU | First |
| 2 | Athletics (M) | AIIU | Second |
| 3 | Volleyball (W) | AIIU | Third |
| 4 | Badminton (M) | AIIU | Third |
| 5 | Table Tennis (W) | South Zone | First |
| 6 | Handball (W) | South Zone | Third |

INDIRA GANDHI AWARD 2014-15

Mahatma Gandhi University National Service Scheme volunteer Manoj George of Baselius College, Kottayam & Aiswarya Lakshmi. R of Alphonsa College, Pala received Indira Gandhi National Service Scheme Best Volunteer Award 2014-15 from the Hon'ble President of India Sri. Pranab Kumar Mukherjee.

Appendix IV (Question-50)

Projection of successful Innovative Practices:

Academic Initiatives and Innovations

- As a new innovative initiative of the university, School of Tourism Studies, a regular statutory department was established in 2010 for skill development in the areas of tourism, hospitality and aviation. It also conducts fundamental and applied interdisciplinary research in key areas like tourism resource mapping, destination development, visitor management systems and development of innovative travel related solutions.
- Under School of Behavioural Sciences, Inter University centre for Disability Studies was started in the year 2010. Institute of Research in Learning Disabilities was started in the year 2014. The Department of Indian Sign Language also was started in the year 2015 to train young professionals who can interpret and communicate in Indian Sign Language.
- Inter University centre for Social Science Research and Extension (IUSSRE) was established in 2010. This centre has been conceived as an interdisciplinary centre of excellence for Social Science research and extension. The centre comprises of the major interdisciplinary areas of emerging social importance in the context of globalization.
- Centre for High Performance Computing was established in 2010. This centre provides facility for efficient scientific computing for interdisciplinary research. The centre focuses on open access programs for the use of all.
- Inter University Centre for Biomedical Research and Super Speciality Hospital (IUCBR & SSH) was established in 2010. This Centre envisions transforming scientific breakthroughs into accurate diagnostic measures and into life-saving treatments for patients. The Centre has plans to establish a super-specialty hospital in the second phase with facilities to deal with emerging threats of viral, bacterial and other infectious diseases, immunity crisis, geriatric issues, developmental disabilities, infection and inflammation, the ageing body and brain, mitochondria & neurodegenerative diseases, brain injury and repair, mental health, metabolism, endocrinology and general health. Population health science; transplantation and regenerative medicine; genomics, children and women's health are the long-term priorities of the institute.
- Inter University Instrumentation Centre (IUIIC) was established in 2011. This centre has been set up to serve the research communities in all the universities in Kerala by initiating advanced level research in various interdisciplinary areas which require state-of-the-art equipment facilities. This centre has acquired state of the art facilities from the Department of Science and Technology for characterization of materials.
- University Centre for International Co-operation (UCIC) was established in 2011. The main objective of this centre has been to explore the ways and means that shall facilitate international student's admission, collaborative teaching, research and outreach programmes with reputed institutions from abroad etc.
- Institute of Contemporary Chinese Studies (ICCS) was established in 2011.
- KN Raj Study Centre for Planning and Centre-State Financial Relations was established in 2011 and has started MA (Economics) programme.



- Advanced Molecular Materials Research Centre (AMMRC) was established in 2012 to perform advanced scientific research for the development of molecular devices.
- National institute of Plant Science Technology (NIPST) was established in 2012 to make advanced studies and research in the areas of plant science and plant based eco technologies.
- Inter University centre for Studies in Science of Music (IUCSSM) was established in 2012. This centre has been envisaged as an advanced research centre in the field of music and science, including specialists in the area of music cognition and evolution.
- Centre for Yoga and Naturopathy (CYN) was established in 2015 and is conceived as a centre for alternative medicinal systems and holistic health.
- Inter University Centre for Organic Farming and Sustainable Agriculture (IUCOFSA) was established in 2016. This centre has been established to encourage and promote development of organic farming and sustainable agriculture in the country.
- Business Innovation and Incubation Centre (BIIC) was established in 2016. The main aim of BIIC is to kindle the entrepreneurial spirit of youth and provide customized support to early stage business ideas with high growth potential amply supported by a patent cell. It also aims to become a hub for innovation activities facilitating and guiding development of ideas into innovative applications that can benefit society directly.
- Introduced M Phil in Disability Studies in Inter University Centre for Disability Studies in the year 2011-12 to promote interdisciplinary research in the area of disability rehabilitation.
- Introduced M.Tech in Computer Science with specialization in Communication and Network Technology in 2012 and MPhil in Computer Science in 2015.
- As a specialisation in the area of Chemical Sciences, a full-fledged M.Tech programme in the domain of Polymer Science and Technology was introduced in the School of Chemical Sciences in the year 2012-13. This programme was designed to create trained manpower in the area of Polymer Science and Technology.
- Integrated master-PhD programme was started in School of Chemical Sciences and International and Interuniversity Centre for Nanoscience and Nanotechnology.
- Setting up of Music Research Centre at Inter University Centre for Studies in Science of Music (IUCSSM) at a cost of Rs. 1.15 crores.
- School of International Relations and Politics started a summer school in Public Policy and Governance. The School also held a Young Scholars Conference in 2014 inviting young researchers from universities outside Kerala.
- The University has initiated an ambitious pioneering project to construct a Science Park in the campus. The Science Park will house chemistry, biology, nanoscience, organic farming, computer science and other science and general purpose laboratories. These facilities will provide the perfect environment for start-up science and technology businesses to conduct commercially oriented R&D and bring new products and services to the market. It is to satisfy the demand for smaller start-up companies for a business environment which includes meeting and conference rooms, desk facilities etc.

- The university has decided to introduce transmission of question papers online to its affiliated colleges to ensure fast and prompt completion of examinations.

Other Innovative Measures

- Through Erudite Professorship, MG University could bring a large number of outstanding professors (60 numbers) from different parts of the world to interact with faculty and students and the public. These include 7 Nobel laureates and other leading academics in science, engineering, technology and social sciences from all the continents. These visits helped the students and faculty to interact with outstanding professors. The university could also make good academic networking with all these faculties leading to many joint publications.
- The University has introduced multidisciplinary e journal- www.mguejournal.wordpress.com.
- Collaboration for academic, research and extension programmes with a number of national agencies and institutions including the UGC (DRS, CAS, DSA), DST (FIST), ICSSR, ISRO, KSCSTE, CSIR, DAAD, DIT, DRNS, DRDO, ICMR, BARC, MOEF, ICCR, ICHR, IED, IIFT, Institute of Chinese Studies and the Sahitya Academy.
- Academic collaboration with research institutions of international reputation such as the Max Planck Institute for Light, Leibnitz Institute for Polymer Research Dresden of Germany, University of Nantes, University of Strasbourg, University of Nancy, University of Paris Twelve, University of South Brittany of France, California Institute of Technology, USA, University of Toronto, Canada, Catholic University, Belgium, Heidelberg University, Germany and the Institute of Political Studies, Rennes, France, Brown University, University of Wisconsin-Parkside, Duke University, Jinan National University, China, Plymouth State University of USA, Ben-Gurion University, Israel and Technical University Denmark.
- An extension programme on 'Rain Water for Humanity' was started in collaboration with Brown University (USA) through which about 25 rainwater harvesting structures have been successfully installed which are managed through community participation. Based on the success of this programme, the school of Environmental Sciences has received Indo- US collaborative funding project of UGC 'Obama -Singh 21st century Knowledge Initiative 'for further research and for establishing more cost effective rainwater harvesting structures and on sustainable sanitation suitable to this region.
- Through a new collaborative project on sustainable sanitation, the school of Environmental Sciences has acquired a 'Self-Contained, PV-Powered Domestic Toilet and Wastewater Treatment System' from California Institute of Technology, USA. This system purifies the water by removing the bacteria and other organic pollutants and the recycled water could be used for further flushing.
- The School has recently installed a weather station which can measure all basic ambient atmospheric parameters continuously. The system can store all these data for future work. This portable system can be taken to the field for in-situ measurements which can substantiate the research work. The system is used for teaching wind patterns, temperature, humidity and rainfall variations in the local region. The wind data generated by the system is helpful in generating windrose diagrams etc. The system is also helpful in understanding the basic and latest measuring methods for climatic parameters.



- Advanced centre of Environmental Studies and Sustainable Development (an Inter University Centre) initiated inter-disciplinary research in areas like climate change, green technology, pollution studies, human ecology and tribal studies, bio diversity and sustainable development. The Centre is a partner of ‘Obama-Singh 21st Century Knowledge Initiative’ collaborating with Duke University and Plymouth State University, USA for sustainable development programmes.
- Library has introduced anti-plagiarism software to prevent copying of research output and theft of intellectual property.
- In addition to digitization of thesis, e-resources and open source resources have been extended through both campus-wide and remote access to students, research scholars and teachers.
- New linkages have been established via national endeavours in multi-national projects like India TMT (Thirty Meter Telescope) Project (DST) and the Square Kilometre Array India Consortium (DAE) with participation of students and faculty in science development.
- Archaeological studies with the help of an archaeological museum which has a large number of objects belonging to Paleolithic, Mesolithic, Neolithic, Megalithic and Medieval periods in the School of Social Sciences. The artifacts include Potteries: redware, blackware, black and red ware, roulettedware, Chinese and glazed Islamic ware, burial urns, iron implements, beads, coins, inscriptions, granite sculptures etc. Student participation in excavation of archaeological sites is a part of history teaching-learning methodology.
- Consultancy Services were carried out by various schools and centres (1) to improve the production quality (2) to fabricate advanced materials from natural resources (3) to give value addition to the existing products and (4) sharing of lab facilities eg. Water quality testing for the general public.
- Psychometric tests for assessment of aptitudes and mentoring of students in various schools to make them goal oriented.
- Group student projects on topics of social relevance undertaken using a problem based learning approach in various schools has shown outstanding results due to its impact and influence on local community, decisions of policy makers etc.
- Semester plan – A pre-planned academic calendar for all the working days of every semester ensures academic planning and timely execution and is followed in School of Tourism Studies. Lesson plan system for each course optimizes efficiency of learning through effective course management and is another major facet.
- Selection of “Luminary” – The best outgoing student through a six tier selection procedure is followed in School of Tourism Studies.
- Travel Grant to students to undertake projects abroad.
- Fifty Seven international and national conferences were organised by the University for the Dissemination of knowledge in various domains.
- Memorandum of Understanding with 18 international and 6 national institutions and companies for research and development.

- MOOC programme was organised by School of Environmental Sciences and International and Inter University Centre for Nanoscience and Nanotechnology.
- Inter University Centre for Nanoscience and Nanotechnology was proclaimed as an International Centre by the Government of Kerala based on its outstanding performance during 2013-14.
- Brainstorming discussion meetings have been held in the international conferences at the International and Inter University Centre for Nanoscience and Nanotechnology for the submission of joint research projects between India and rest of the world under Horizon 2020 and other bilateral projects between DST/DBT/UGC of India and the rest of the world.
- Student exchange programmes, both inbound and outbound have been undertaken on a regular basis at the master and PhD level at the Inter University Centre for Nanoscience and Nanotechnology. As a result of this, students of the Centre could travel to USA, Canada, Argentina, Brazil, Poland, Belgium, Czech Republic, Slovenia, Slovakia, Italy, Portugal, Spain, Austria, Switzerland, Sweden, Finland, South Africa, Australia, New Zealand, Japan, China, South Korea, Singapore, Malaysia, Hong Kong, Nepal and Russia.
- Annual Meet to honour the PhD holders who obtained the degree during the year. The first such meet was held on 28/05/2016 where medals and certificates were distributed.
- An interface meeting between publishers and faculty and research scholars of the university was organised by the IQAC to promote publishing of research output with reputed international publishers.

Technological Innovations

All the University teaching departments have adequate computing facilities for catering to their academic and administrative requirements. The university network enables access to all the online journals and research articles subscribed by the University Library. Student Web Centre ensures general computing facilities in the campus. Specific computer labs for enhancing computer skills, language skills, soft skills etc. are also part of the computing infrastructure. The major technological innovations are

- Received funds for introducing Smart Class Rooms in eleven teaching departments to offer video conferencing facilities.
- Public Portal facility
- Wi-Fi Campus
- Campus wide OFC Network
- e-Tender for Transparency
- MOOC programmes and Web casting of Lectures
- Online single window admission through Centralized Allotment Process (CAP) which made it paperless. This admission process made the system more transparent and the principles of social justice, inclusiveness and equity could be introduced.
- Digitization in examination management system introduced in Pareeksha Bhavan.
- Official e-mail account made available to all teaching Staff.
- SMS communication for faster delivery of services



- Use of KOHA – library management software in Central Library and in teaching departments.
- E-grants system for processing of grant/Fellowship applications of SC and ST students.

Others

- Biometric punching has been introduced for the staff to ensure transparency and punctuality in attendance system.
- The process of selection of non-teaching staff was handed over to the Kerala Public Service Commission which ensured selection of best candidates through greater transparency.
- A newly built day care centre is being run for the children of university staff.
- Single window system has been introduced for the submission of project proposals by faculty members.
- The money released from the external funded projects has been released to the principal investigators on a fast track basis.
- Submission of audited statement of accounts of projects is done through a fast track process by the university.
- The university has ensured a barrier free environment in the campus through construction of ramps, accessible toilets, preferential parking slots etc.
- The university has earmarked two seats for meritorious sportspersons for each course at under graduate level and one seat for each course at post graduate level.
- The university has instituted Sports grace marks to a maximum of 25% for participation in sports and for their achievements at various levels of competitions.

Ongoing Innovative Plans in Different Stages

- The university has initiated plans at a cost of Rs. 2500 lakhs to have a Wi-Fi enabled e-campus to enable online access to all statutory departments, inter university and inter school centres and affiliated colleges to facilitate online academic programmes through
1. Procurement of 10 TB server and other computer hardware and software.
 2. Establishment of Wi-Fi facility in the campus
 3. Establishment of e learning and support centre
 4. Establishment of a digital content management system
- Installation of solar power plant system for power generation during day time at a cost of Rs. 3500 lakhs. This initiative will solve the electricity problems and frequent power cuts in the campus and the campus will become more green.
 - Establishment of digitising facility in the university library.
 - Setting up of Digital Content Creation Lab.