



MAHATMA GANDHI UNIVERSITY

**INTERNAL QUALITY ASSURANCE CELL
PRIYA DARSINI HILLS PO, KOTTAYAM, KERALA**

Annual Quality Assurance Report

[2014-15]

Submitted to the
**National Assessment and Accreditation Council
(NAAC)**

Part - A

1. Details of the Institution

1.1 Name of the Institution

Mahatma Gandhi University

1.2 Address Line 1

Priyadarsini Hills P O

Address Line 2

Athirampuzha

City/Town

Kottayam

State

Kerala

Pin Code

686560

Institution e-mail address

registrar@mgu.ac.in

Contact Nos.

+914812731001, +914812731007

Name of the Head of the Institution:

Dr.Babu Sebastian

Tel. No. with STD Code:

+914812731001

Mobile:

9447128373

Name of the IQAC Co-ordinator:

Prof (Dr.) Sabu Thomas

Mobile:

9447223452

IQAC e-mail address:

iqac@mgu.ac.in

1.3 NAAC Track ID

KLMGU 68656

1.4 NAAC Executive Committee No. & Date:

EC/54/RAR/121 dtd 08/01/2011

1.5 Website address:

www.mgu.ac.in

Web-link of the AQAR:

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B+		2003	15 th September, 2008
2	2 nd Cycle	B	2.90	2011	6 th Jan 2016
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC:

DD/MM/YYYY

03/11/2009

1.8 AQAR for the year (for example 2010-11)

2014-2015

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

i. AQAR 03/03/2016

(DD/MM/YYYY)

1.10 Institutional Status

University

State

Central

Deemed

Private

Affiliated College

Yes

No

Constituent College

Yes

No

Autonomous college of UGC

Yes

No

Regulatory Agency approved Institution

Yes

No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women
 Urban Rural Tribal
 Financial Status Grant-in-aid UGC 2(f) UGC 12B
 Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

Technology & Applied Sciences, Behavioural Sciences, Environmental & Atmospheric Sciences, Paramedical Sciences, Journalism

1.12 Name of the Affiliating University (*for the Colleges*)

NA

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc - NA

Autonomy by State/Central Govt. / University

- NA

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

**Inter University Centres established in 2014-15:
Nil**

Inter School Centres established during 2014-15

- National Institute for Plant Science and Technology
- Centre for Yoga and Naturopathy
- Institute of Research in Learning Disability
- Nelson Mandela Chair for Afro Asian Studies

2. IQAC Composition and Activities

2.1 No. of Teachers	9
2.2 No. of Administrative/Technical staff	Nil
2.3 No. of students	Nil
2.4 No. of Management representatives	2
2.5 No. of Alumni	Nil
2.6 No. of any other stakeholder and community representatives	Nil
2.7 No. of Employers/ Industrialists	Nil
2.8 No. of other External Experts	03
2.9 Total No. of members	14
2.10 No. of IQAC meetings held	Four

2.11 No. of meetings with various stakeholders: No. Faculty
Non-Teaching Staff /Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

N.A

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

1. Conducted a one day state level Seminar on "National Trust for Welfare of Persons with Mental Retardation, Autism, Cerebral Palsy and Multiple Disabilities Act, 1999" on 15th December, 2014.
2. Conducted an International Seminar on "International Conference on Advanced Oxidation Processes" from 26th September to 29th September, 2014
3. Conducted Workshop cum Nineteenth National Symposium on Environment, from December 11th to 13th December, 2014.

4. Conducted an International Conference on Advanced Oxidation Processes, Sep 26-29, 2014.

5. Conducted a Colloquium on "Travails of Political Transition in IRAQ and Egypt" on 27th June, 2014 organized by Centre for Western Asian Studies, School of International Relations and Politics.

6. Conducted Second International Level Conference on Nanostructured Materials and Nanocomposites (ICNM 2014): 19-21 December 2014.

7. Conducted Third International Level Conference on Polymer Processing and Characterization (ICPPC 2014): 11-13 October 2014.

8. Conducted First World Conference on Fracture and Damage Mechanics (Fracture 2014):9-11 August 2014.

9. Conducted Three Day Workshop on Panchayat and Development programme (SCP & TSP) in November 2014.

10. Conducted Three Day State Level Workshop on Women and Social Justice- Panchayath Jagratha Samithi in December 2014.

11. Conducted a one day state Level Workshop on Traditional Healings in Modern Society in September 2014.

12. Conducted a National Colloquium on Mass Spectrometry, Chemical, Biological and Environmental Applications, Kottayam August 29-31, 2014.

13. Conducted an International Conference on Advanced Oxidation Processes (AOP 2014) Sep 2014, Munnar, Kerala.

2.14 Significant activities and contributions made by IQAC

- Motivation of Faculty and Students to submit Research proposals to funding agencies to improve funding for research.
- Initiating steps to improve ICT based teaching learning process in various Schools and Centers.
- Supporting Schools to invite Scholars and Scientists in different areas of research.
- Promoting international conferences in Schools and Centers.
- Promoting workshops and roundtable discussions.
- European Union (EU) -India brain storming discussions for new research proposals.
- Introducing Flipped Classroom concept in Schools and Centers.
- Help establishing and supporting various redressal forums and Parent Teacher Associations (PTA) in Schools and Centers.
- Motivating various Schools and Centers to initiate steps towards establishing collaborative work/exchange programmes with other institutions and industry.
- Initiating steps to implement Faculty Development Programmes for faculties of the University Department either supported by UGC or University funded or self financed.
- Initiating steps to implement motivational programmes for staff of the University Department either supported by UGC or University funded.
- Initiating steps to introduce Biometric attendance system in the University.
- Motivating Schools to submit proposal for infrastructure development through the State Plan Fund.
- Initiating steps to make the campus ecofriendly.
- Health awareness programmes for Faculty and Staff of the University.
- To initiate steps to perform Academic and Administrative audits.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
Improving ICT enabled teaching learning programmes in Schools	Use of Audio Visual Aids like LCD Projectors, Speakers, portable mikes; School of Tourism studies introduced Use of ODL Language learning Software in Language Lab to enhance Communication skills & Online internal examination
Improving Research project funds by motivating Schools to take up funding grants from other agencies	22 Major Projects submitted; 14 Sanctioned; 4 Minor Projects sanctioned
Inviting Scholars and Scientist to the University for Delivering Lectures and interaction	See annexure 5.2
Infrastructure development for Science Research	Library Fully automated, equipped with library software, SOUL, introduced by INFLIBNET, UGC in School of Behavioural Sciences. In School of Computer Sciences library have been migrated to 'KOHA', an open source web-based integrated library management system library have been migrated to 'KOHA', an open source web-based integrated library management system, smart classroom facility with video conferencing facility established. In School of Environmental Sciences, Internet facility – Wi-Fi and cable ports (135 ports). Access to INFLIBNET, Science Direct, Scopus etc. through MGU Library
Initiating Departments/Schools/Centers to establish Collaboration with other Universities/Institution/Industry	Renewal of MoU with University of MARA, Malaysia and Initiation to Signing of MoU With Durban University, South Africa New collaboration with Dr. Ho Sung Kim, Senoir Lecturer, School of Engineering, Newcastle University, Australia in the filed polymer composite in CNN.
Ecofriendly campus	Details provided in section 6.14 and 7.4
Health Awareness Programmes for Faculty and Staff of the University	A three day Health Checkup camp for Employees and Faculty was conducted in the campus
Introducing Flipped Classroom concept in Schools and Centers	Introduced in Center for Nanosciences and Nanotechnology

2.15 Whether the AQAR was placed in statutory body Yes No
Management Syndicate Any other body

Provide the details of the action taken

Approved by Hon'ble Vice Chancellor after exercising power u/s 3.10(17) of MGU Act 1985
dated on 08.08.2016

Part - B

Criterion - I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	61	1	1	-
Mphil	26	-	1	-
PG	36	-	21	-
UG	2	-	25	-
PG Diploma	-	2	-	-
Advanced Diploma	-	-	-	-
Diploma	1	2	-	-
Certificate	13	1	-	-
Others	1	2	-	-
Total	140	8	48	-
Interdisciplinary	23	8	-	-
Innovative	8	2	-	-

Please see annexure 1.1

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	179
Trimester	NIL
Annual	13

1.3 Feedback from stakeholders*

(On all aspects)

Alumni	<input type="checkbox"/> Yes	Parents	<input type="checkbox"/> Yes	Employers	<input type="checkbox"/> Yes	Students	<input type="checkbox"/> Yes
Mode of feedback:	Online	<input type="checkbox"/> Yes	Manual	<input type="checkbox"/> Yes	Co-operating schools (for PEI)	<input type="checkbox"/> Yes	

***Please provide an analysis of the feedback in the Annexure**

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

The curriculum is being designed in line with the university goals and objectives. The syllabi of the different departments are being thoroughly revised after consulting with eminent scientists, faculties, experts from industry, alumni working in the respective field and students. University also offers option to select elective subjects which suits the skills and talents of students. Inter institutional credit transfer is being offered by university for students undertaking projects outside the University. Open course are also available so that students can select courses offered by different departments. For example:

- International and Inter University Centre for Nanoscience and Nanotechnology: Introduced Integrated M.Sc-Ph.D course recently. The centre has also introduced a new course on Nanosensors to keep pace with the developments of the present time. As nanoscience is a potential subject of the future students of any discipline can study this subject under the university open course scheme.
- School of Behavioural Sciences: Periodic revision of syllabi has been carried out in School of Behavioural Sciences based on the recommendations of “Rehabilitation Council of India” is observed in periodic updating and revision of syllabi.
- School of Management & Business Studies: Inorder to test the comprehensive understanding of the subjects’ comprehensive viva voce has been introduced in School of Management Business Studies.
- International & Inter University Centre for Nanoscience & Nanotechnology has completed Massive Open Online Course (MOOC), in collaboration with North Carolina A & T State University, USA and Kerala State Higher Education Council. Twenty five students attended the program and certificates were issued to them.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

- Institute of Research in Learning Disabilities(IRLD)
- Centre for Yoga and Naturopathy
- **The Nelson Mandela Chair for Afro-Asian Studies** was established under the School of International Relations and Politics (SIRP) during 2014-15 with the aim of initiating studies and research on Afro-Asian affairs from the perspective of International Relations. Asia and Africa are increasingly seen as the ‘Continents of Attraction’ for both scholars and policy makers alike. The University nominated the first incumbent of the Chair, Prof. V. Suryanarayan, an International Relations Scholar and Fellow in the Centre for Asia Studies, Chennai, and former National Security Advisory Board Member, Government of India. Prof. Suryanarayan is also President of the Chennai Centre for China Studies and Convenor, Centre for South Asia Studies. Prof. Suryanarayan assumed charge as Nelson Mandela Professor on 23 January 2015 and continued to officiate till the end of the academic year. The Chair organised a series of Special Lectures and held two conferences on “Understanding China: Indian Perspectives” and “Engaging Diaspora: Challenges and Opportunities.”

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	98	46	30	22	365

2.2 No. of permanent faculty with Ph.D. 92

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
6	16	8	7	1	2	0	0	13	20

2.4 No. of Guest and Visiting faculty and Temporary faculty 117 32 226

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/	94 + 6	155 + 13	82 + 56
Presented papers	96	141 + 1	84 + 2
Resource Persons	37	79	79 + 3

Please see annexure 2.5

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Students get opportunity to interact with Nobel laureates and outstanding academic personalities through the prestigious Erudite Scholar-in-Residence Programme introduced by the Kerala State Higher Education Council. The Erudite Scholar-in-Residence programme was effectively utilized by various Schools to organise lectures and interactive sessions of doyens of international repute.
- The smart class rooms in the Schools and Departments of the University have state of the art electronic facilities. 24X7 hr accessibility to e-resources through our cyber consortium is available. Most of the online journals are available in all University Schools and Departments besides the Central Library.
- University has introduced MOOC programmes in Nanoscience & Nanotechnology and Environmental Science.
- University has online repository of digitized theses of doctoral degrees awarded so far.
- The University Departments/Schools continued to maintain a learner-friendly, need-based instructional/learning milieu to facilitate the students and research scholars to acquire appropriate skills and capacity. The instructional pattern, apart from its information-based mode, inculcates values of social theory, self-reflexivity and policy-alternative thinking. The

learner-friendly mode promoted cognitive-analytical skill of students and, wherever necessary, provides space for the empowerment of the disadvantaged in the learning process through informal counselling and tutorial interfaces. While classroom engagements continue to be an indispensable factor for the imparting of knowledge, periodic seminars, book/article review sessions and group interfaces provide the necessary intellectual climate for the learning and research in the School. Training is given to the students to become self learners who will be capable of handling new ideas of concepts of the fast advancing frontiers of science that will be part of the syllabi of tomorrow.

Please see annexure 2.6

2.7 Total No. of actual teaching days during this academic year

185

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Double valuation, Open Book Examination, Spot Test, Continuous Evaluation, Quiz Programme, Bar Coding

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development as member of Board of Study/Faculty/ Curriculum Development workshop

59 42 44

2.10 Average percentage of attendance of students

88

2.11 Course/Programme wise Distribution of pass percentage:

Title of the Programme	Total no. of students appeared	CGPA			
		> 8.00	6.00-7.99	5.00-5.99	Pass %
PG	358	36	231	26	81.84
PhD Course Work	138	27	108	3	100
UG	40	0	35	43	78
M Phil	108	16	85	2	95.37
Others	-	-	-	-	-

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

The IQAC conducts periodic meetings to monitor the academic programmes of various schools/departments and make suggestions and recommendations in the Dept. Council. It prepares strategies for qualitative teaching and research in each department. The periodic academic audit & assessment based on PBAS furnished by the teaching faculty is carried out by the IQAC. The evaluation reports are sent to each HoD for compliance. IQAC has directed the schools to continuously evaluate through internal tests, assignments and seminars, direct Q& A sessions, remedial coaching, tutorials, subject familiarisation through videos, visiting resource persons and special lectures. A plan of action is charted out for each

semester and directions are issued to schools to stick to the same. The schedule is also given to students so that they can prepare accordingly. Feed back is collected from the students and valuable suggestions and guidelines are given as and when needed. It promotes innovative teaching learning strategies and motivates the faculty towards academic competence.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	16
UGC – Faculty Improvement Programme	3
HRD programmes	1
Orientation programmes	42
Faculty exchange programme	5
Staff training conducted by the university	7
Staff training conducted by other institutions	6
Summer / Winter schools, Workshops, etc.	29
Others	10

Please refer annexure 2.13

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	1057	130	12	113
Technical Staff	421	39	11	2

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- ✓ Six months work presentations by Research Scholars before the Doctoral Committee made mandatory
- ✓ Faculty members constantly being motivated for submission of research proposals to funding agencies
- ✓ Creating awareness among students about the types of fellowships that are available for them to take up research activities, students are told about INSPIRE fellowships, KSCSTE Fellowship, DBT JRF, Women back to lab programmes for research scholars.
- ✓ IQAC decided to institute a best research project award for students of each department starting next academic year
- ✓ Various Schools/Departments/Centres have taken steps to organize workshops / Seminars / training programmes / invited talks thereby giving the students an opportunity to understand the current thrust areas and get into research programmes.
- ✓ Constant motivation to Schools/Departments and Centers to submit proposals to State Plan for improving infrastructure in the respective schools

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	24	59	14	22
Outlay in Rs. Lakhs	717.785	211.452	500.00	2516.84

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	3	6	4	1
Outlay in Rs. Lakhs	13.272	11.96	1.8	3.0

3.4 Details on research publications

	International	National	Others
Peer Review Journals	327	81	11
Non-Peer Review Journals	1	22	0
e-Journals	16	10	0
Conference proceedings	85	92	13

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major Projects	2-4 years	GFATM,DST,DBT,ICMR, SERB,KSCSTE,UGC, SIRD, CSIR, GoK,ICCR,SSRC,KSCSTE under SARD project, Govt.of kerala	763.88700	484.30760
Minor Projects	1Year	ICMR , ICSSR,UGC,GoK,ICSSR, Ministry of Tourism, IITTM	21.00000	19.25000
Interdisciplinary Projects	3	DBT_MSUB,UGC,GoK,ICSSR	395.00000	
Industry sponsored	-			
Projects sponsored by the University/ College	-	Salman bin Abdulaziz University, KSA	4.00000	4.00000
Students research projects <i>(other than compulsory by the University)</i>	-	KSCSTE	0.14000	
Any other(Specify)	-	SAP,UGC, UGC Research Awardee	3.69600	3.69600
Total			1187.72300	511.25360

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

Please see Annexure 3.7

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy DBT Star Scheme

INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	13	18	10	12	
Sponsoring agencies	DST,UGC	UGC,KSCSTE,DoECC, Govt. of Kerala ,MG University,ICHR,ICSSR,NCERT,DST, IAS	MGU PTA KSCSTE,Uty	MGU	

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency From Management of University/College
Total

3.16 No. of patents received this year

Type of Patent	Status	Number
National	Applied	4
	Granted	
International	Applied	2
	Granted	1
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
25	7	13	3	1	1	

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

100

461

3.19 No. of Ph.D. awarded by faculty from the Institution

81

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
National level International level

3.22 No. of students participated in NCC events:

University level State level
National level International level

3.23 No. of Awards won in NSS:

University level	Nil	State level	Nil
National level	Nil	International level	Nil

3.24 No. of Awards won in NCC:

University level	Nil	State level	Nil
National level	Nil	International level	Nil

3.25 No. of Extension activities organized

University Forum	6	College forum	Nil
NCC	Nil	NSS	Nil
		Any other	9

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Extension activities are organised by the Department of Life Long Learning and Extension, Department of Students Services, National Student Services and School of Behavioural Sciences, School of Biosciences, School of Indian Legal Thought, School of Social Sciences and School of Environmental Sciences. The extension activities are envisaged to directly benefit the rural population of the state with special importance to the areas under the jurisdiction of the University. Few of the extension activities are as detailed below:

- Parental counselling
- Training to teachers
- Life skill education for adolescents
- Early identification & intervention for childhood disorders
- Counselling 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
- The extension activities of the School of Biosciences is being organised by Bio Science Forum, the organisation of the students, teachers and staff of the school
- As part of "Clean India Challenge" 08.10.2014 was observed as cleaning day.
- The students and staff of the School of Computer Sciences took part in the charity programme organized by the Department Students' Union of the University, for the students in Nalpathimala colony.
- Interface 2014 an annual IT Meet (IT competitions) organized by the School of Computer Sciences provided a platform for students in Computer Science and Technology

from various Universities and Colleges in South India to showcase their technical talents and also served as a forum as a forum for information interchange in the field.

- Remedial classes were organized for the second semester M Sc and M Tech batches during vacation (20.04.2015 to 30.04.2015).
- Blood Donation. Campus cleaning
- Students in four groups undertook a project on “Destination development- Water Ways”, “Barrier free tourism in pilgrim destinations in 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 department to analyse the imperative needs of the differently abled in achieving their right to leisure.
- Faculty members engaged in dissemination of knowledge by handling regular columns in national newspapers and wrote 29 articles.
- A broad survey was carried out to unearth the scope of public sector employment opportunities in the field of tourism which benefitted the students to frame out their future plan
- The major activities during the academic year 2014 -2015 include the two day National Seminar organized by the institution in the topic of ‘Right of Farmers in ‘The Globalised Economy – Trends and Perspectives’.
- Measures were taken for ensuring participation and performing well in various Moot Court competitions and wining prizes including first prize.
- Legal literacy mission carried out in various Panchayats and schools.
- Dispute redressal through the mechanism of mediation organized in the School.
- Organized Ambedkar Memorial Lecture.
- Community empowerment through people’s participation to meet their livelihood needs.
- Food adulteration in soft drinks and packaged water – conducted community awareness programmes.
- Western Ghats Conservation – Sustainable Practices – Stakeholder interactions were held.

Criterion – IV

4. Infrastructure and Learning Resources

4.1

Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	158.3281 acres			
Class rooms	79+357	15	MGU	94+357
Laboratories	72+139	7	DST , KSCTE, UGC, GoK	79+139
Seminar Halls	14+44	3	UGC	17+44
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	293+184	43	MGU,DST , KSCTE, UGC, GoK	336+184
Value of the equipment purchased during the year (Rs. in Lakhs)	292.668	313.094	MGU,DST , KSCTE, UGC, GoK	605.762
Others	5		UGC, GoK	

4.2 Computerization of administration and library

- **Computerization of University administration-** The university administration is going to introduce e governance in administration and necessary infrastructure is being put in place. The attempt is to make the university office paperless. Necessary training in computerisation is being given to the administrative personell prior to introducing e governance.
- **Computerization of University Library** – The inhouse management of the university library services are computerized using the Open Source Library Management Software KOHA. There are many desktop computers in the library, which can be utilised by the students for preparing dissertations and for study purposes. Internet facility is also available.
 - Accessibility of new e- journals- The library provides access to resources including e-journal and databases under the UGC_INFONET digital library consortium (e-Sodhsindhu), e- journal archives and e- books procured on perpetual access basis , annual subscription basis and digital archives of M G University Ph D Thesis. All the faculty members of the centre suggest for essential books and periodicals to be procured regularly.
 - According to latest report MG University is ranked 29th among 250 universities under the UGC-INFONET digital library consortium.
 - E-books from Oxford scholarship online, Taylor and Francis group, Malayalam e book collection from D C Books.
 - E-Journal archives from Camebridge University Press, Sage publications and Springer Link Publications.
 - Databases like PROQUEST, LISA, 22000 e journal from j- GATE port.
 - Library has web enabled OPAC (online public access catalogue) (<http://mgucat.mgu.ac.in>)

- E-resources available in the university is extended to outside departments and study centres through VPN (virtual private network) technology.
- Library is managing its website (www.library.mgu.ac.in) and webserver in the university library.

The library follows the following methods for purchasing new titles or journals:

- Library procures the books which are duly recommended by teachers, research scholars and students
- Library procures books on approval from various publishers and vendors considering the courses available at our college. The teachers are invited to approve the books by filling up the Requisition Form. Thus the approved books are procured.
- Teachers visit Book Exhibition to select and purchase required books.
- **Steps to improve the functioning of library-** The faculty members of various schools and centres meet to discuss various issues related to improvement of Library facilities and services and advise suitable solutions for better functioning. They also meets regularly to discuss and finalize proposed policies, budget, specific issues and suggestions to the departmental library.
- **Open Access availability of theses** - Open Access availability of theses of doctoral degrees awarded by the University is established (www.mgutheses.org). Digital storage of thesis and research publications is available in the university library.
- **Every school in the university has a computerised library and Infonet lab for students and research scholars.**

See Annexure 4.2 for details.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value (Lakh)	No.	Value (Lakh)	No.	Value (Lakh)
Text Books	166356	590.11582	10125	52.49613	176481	642.61195
Reference Books	16429	78.13089	445	6.49758	16874	84.62847
e-Books	3300		1153	0.66549	4453	0.66549

Journals	833	133.62666	264	48.47780	1097	182.10446
e-Journals	2107	13.64025	2	13.64025	2109	27.28050
Digital Database	49	30.95054	6	14.33035	55	45.28089
CD & Video	1515	4.20597	143	0.22970	1658	4.43567
Others (specify)	15542	13.89225	0	0	15542	13.89225

4.4. Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	950	56	Internet Connection of 100 Mbps bandwidth is available throughout the campus	24	21	33	34	5
Added	106	24		0	0	4	10	8
Total	1056	80		24	21	37	44	13

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Computerization of schools and centers** - In each school and centre, well equipped computer labs with high speed internet access for the students were established in this period. All faculties, Departments/Schools/Inter University Centres/Inter School Centres of the University have high speed internet facility (100mbps bandwidth). These are strictly monitored by network administrators to prevent inappropriate use and prevent chances of digital hacking. The faculty and students in the schools are benefitted from the training and orientation programmes conducted by the University in advanced computer/software management from the experts in the field.

- The departments have corporate license software with the Micro soft. All the software loaded has been licensed with different agencies.

Name of the software	Licensed by
Microsoft Windows	Microsoft Corporation - Corporate version
Microsoft Office	Microsoft Corporation – Corporate Version
LINUX	Open source software
Anti - virus software	Purchased
Domain name registration for Department	
website design stsmgu.edu.in	

- The departments are equipped with computers, scanner and printers.
 - The department library has a computer for accessing e – resources open sources with internet connectivity.
 - Scanner, print facility and xerox facilities are available to the students and the faculty.
- **Upgradation of IT infrastructure and associated facilities:** The softwares, printers and scanners are upgraded in frequent revisions and updations in the newer software released. The upgradation of computer systems is taken up on a periodic basis asand when the necessity arises.
 - **Computer-aided teaching/ learning process:** The departments are equipped with projector and desktop computer with internet facility. Students are using the ICT facilities for their seminar presentations, assignments and for preparing notes. Seminar presentations, project work, assignments enable a student – centric learning environment. The teacher plays an important role of a guide suggesting the reference material, books and e – resources to be used. Access to various open e – resources both at the center enable a student to develop independent learning environment. The assignments given to the students make it inevitable for the student to use extensively the references in the library books and e – resources suggested by the teacher to complete the assignment. Feedback has been periodically collected from the users and remedial measures were taken wherever necessary to improve computer aided teaching learning process.
 - **Centralised allotment programme for university admission-** University has introduced centralised allotment programme for the PG admissions.

- **Training to teachers and students** - Training and refresher courses were given to students and faculties respectively for using of UGC-Inflibnet services and use of digital consortium encompassing thesis in digital format.
- University library conducts orientation programmes at regular interval for the new batches of PG students, research scholars and faculties.
- University Library provides personalised information services to the student, faculties and researchers.

4.6 Amount spent on maintenance in lakhs:

i) ICT	139.47447
ii) Campus Infrastructure and facilities	1488.40569
iii) Equipments	94.20289
iv) Others	431.91878
Total:	2154.00183

Criterion – V

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The IQAC periodically monitors and evaluates the activities of the Students Grievance Redressal Cell functioning in the office of the Vice Chancellor.
- Personal Accident Insurance Scheme and Financial aid for serious illness are being provided by the Department of Students Services on recommendation from IQAC.
- Grace marks are being awarded to the students for their outstanding contribution in cultural activities.
- University level youth festival and cultural competitions are organised each year by the DSS and the participation of winners are ensured in the Inter University and National Level Competitions.
- IQAC with its insistence on feedback from the students, alumni etc., and emphasis on various student support services for the remedial of various grievances, NSS, NCC etc., innovation in teaching and learning, has helped in enhancing the awareness about student support services considerably.

- University is providing research fellowships for the students pursuing Ph D degree in various research centres of the University.
- Training is given for GATE/NET/SET by the Career Guidance Bureau. Our Central and Departmental Libraries are well equipped with various books which help the students to prepare for the competitive examinations. All the teachers provide guidance to students as and when required for preparing for these competitive examinations.
- The IQAC strives to provide an environment conducive to the overall development of the students. Students are encouraged to participate in seminars, workshops and technical meets organized by various institutions. Students are encouraged to participate in conferences/seminars/ workshops organized by various institutions.
- **Students mentoring-** The mentors counsel the students during the periodic review meeting. The well behaved students are appreciated and others are properly cared for and counseled. The mentor encourages the student to develop and channelize his/her skills and talents through an appropriate forum such as conferences/workshops/seminars. Group mails are created by faculty members and students to facilitate online mentoring. Meetings are conducted with the staff and students to address every issue that needs attention.
 - Mentors arrange 'Erudite' lectures.
 - Members of the centre render guidance and suggestions to the students in formal and informal meetings.
 - The University organizes lectures on career opportunities. It invites companies for campus recruitment.

Please see Annexure 5.1 for details.

5.2 Efforts made by the institution for tracking the progression

- Various steps are taken to monitor and record the progress of students and researchers in their academic activities, like internal assessment and external examinations, assignments, dissertation etc.
- Progression of students is regularly monitored. The faculty advisor assigned to each batch of students collects and files all personal and academic details of the entire batch of students. This enables the faculty member to keep a record of the previous academic performance, personal background, current details, semester wise academic and co-curricular achievements of each student in a batch and helps to counsel and guide the ward in a more effective and fruitful manner. This produced a positive impact in the student-teacher relationship and was reflected in the selection of electives, projects and in the overall performance of the students.
- Slow and advanced learners are identified through the internal evaluation. In addition to the regular working hours, extra time has been given to the students to use the laboratory facilities to enhance their knowledge in the subjects which are not included in the curriculum.

- Remedial courses are being conducted for the improvement of weaker students. For every batch during the 1st semester a 2-week programming session is given for improving the programming competency of the students.
- Students who pass PG programmes are motivated to continue for PhD programme. Most of the students of our PhD programmes do some part of their research work abroad. We have collaboration with foreign universities and encourage the PG student to join the collaborative PhD programme. The PG students are also encouraged to apply for several distinguished fellowships offered by Govt. of India and other foreign countries for joining PhD programmes abroad. For the employment of the students the University organizes job fairs and invites industries for campus recruitment regularly.

The following efforts are made to minimize dropout rate and failures and facilitate the students to complete the course:

- Additional coaching – Personal guidance, remedial coaching, guidance lectures and question bank is provided to the students.
- Counselling – Personal counselling, motivation, career counselling, Parent-Teacher meeting etc..
- Attendance - Regular attendance is taken for all the subjects separately. Defaulters are warned and parents are called to discuss the matter. Counselling is given to serious defaulters.
- During examinations we provide convenient room, scribe and extra time to physically disabled students, as per the University rules and regulations.
- Facilities are provided to the students for the timely submission of thesis.
- **Available support services to overseas students-**
 - International Hostel with international menu and dining facilities.
 - Transport facilities for official visits to local area etc
 - Special medical care is provided
 - Registration of Visa at the time of arrival
 - Visa extension if required for academic purpose
 - No Objection Certificate at the time of leaving India after completion of course
- University has arranged several invited lectures during 2014-2015

Please see annexure 5.2 for details.

5.3

	UG	PG	Ph. D.	Others
(a) Total Number of students	6666	1429	333	217

(b) No. of students outside the state

3

(c) No. of international students

11

Men:	No.	%	Women:	No.	%
	4348	50.29		4297	49.71

Demand ratio- 1:7 Dropout % - 10

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Our central library and departmental library are well equipped with various books which help the students to prepare for competitive examinations
- Several departments have arranged campus interviews for students so as to get them placed.
- Faculty members have given proper guidance to the students to take up IELTS, TOEFL, GRE and GMAT examinations.
- NET coaching: The University has set up a full fledged facility for equipping the students (especially for SC/ST/OBC) to appear in the National Eligibility Test. A faculty member is in charge of this activity.
- PSC coaching and job oriented training: University has set up a coaching center, under the charge of a faculty member, to equip the students (especially SC/ST/OBC) for the PSC examinations and job oriented programmes.
- The University has a career guidance cell where coaching classes are conducted for NET examination especially for SC, ST, OBC and other minorities. A faculty member is in charge of the same and provides guidance to students.
- Personality development classes and spoken English classes are also conducted at the career guidance cell.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

Please see Annexure 5.6

No. of students benefitted

5.7 Details of campus placement

<i>On campus</i>	<i>Self financing</i>
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Category	Last year	This year
General	4104	4631
SC	1475	1311
ST	175	123
OBC	2846	2909
Physically challenged/others	45	37
Total	8645	9011

Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Organizations Visited	Number of Students Participated	Number of Students Placed
31	98	42	19	230	161

5.8 Details of gender sensitization programmes

- Students of the School in the university actively participated in the gender sensitization programmes conducted within the campus by women’s forum, Departments Students Union as well as various departments and organisations.
- A statistical analysis showed that all school and centres have more number of women in PG, Ph D and post doctoral programmes.
- Women dominate among Rank holders of MG University.
- The University has a women anti harassment cell. Every department organises Women’s day every year.
- Each and every department has anti ragging cell and counselling centres.
- Seminars are conducted in the departments and also in the University on gender specific issues.
- The University has arranged interactions on themes based on gender equality, human rights and inclusive strategies.
- Women Grievance Cell is formed and it is actively functioning.
- Women cell has been inaugurated in the School of Legal Thought on February 2nd 2015 and conducted a program named ‘Snehasparsham’.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level	National level	International level
No. of students participated in cultural events	-	-
53		
State/ University level	National level	International level
37	-	-

The following other activities are conducted with the help of students:

- Celebration of various important days(Mothers Day, Anti HIV Day, Teachers Day)
- Organizing Intercollegiate competitions (poster /oral presentations)
- Participation as volunteers in conferences, workshop
- Visited children’s home

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level
Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount (Lakh)
Financial support from institution	210	17.5
Financial support from government	167+869	40.379+438.244
Financial support from other sources	41+3	36.548+2.00
Number of students who received International/ National recognitions	1	0.115

5.11 Student organised / initiatives

Fairs: State/ University level National level International level
Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

- Cafeteria in the campus
- Lack of students club.
- Wi-Fi connection in students' hostel.
- Computers video camera, editing console, overhead projector etc are purchased.
- Uninterrupted power supply in all the students' hostel.
- Renovation of hostel initiated.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

The various Departments and Academic Centres of the University envision the use of innovative, cutting edge facilities in learning, teaching and research in various fields of learning. The Departments are conceived as Nodal centres for dissemination of Information and advanced training in key areas. They are proposed to become major centres of academic competence with world class learning programmes and facilities. Development of appropriate, sustainable and environment friendly technologies, skilled human resources and management of natural resources. Promotion of inter- disciplinary learning and production of competent Professionals/ Researchers in various fields. Promotion of egalitarian ideals like empowerment of disadvantaged sections, promotion of excellence and deeper and wider understanding of different areas of knowledge. Conducting programmes for extension work and continuing education. Extension of counselling and training to NGO's and other organisations. The University envisages the fostering of thought, coping with change in structures and content of knowledge, and developing employment skills in students. Setting up of collaborations with industry, communities and institutions and other Universities in India and abroad. To publish Journals, books etc promoting intellectual exchanges in related fields.

Please see annexure 6.1

6.2 Does the Institution have a Management Information System

Please see Annexure 6.2

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The curriculum is being designed in line with the university goals and objectives. The syllabi of the different departments are being thoroughly revised after consulting with eminent scientists, faculties, experts from industry, alumni working in the respective field and students. University also offers option to select elective subjects which suits the skills and talents of students. Inter institutional credit transfer is being offered by the University for students undertaking projects outside the University. The Boards of Studies in various subjects in association with Faculty Councils and experts from Industries regularly update the Interdisciplinary syllabus, curriculum and introduce new courses. Projects are given to students for the improvement of methodology and training from Industry. For example: M. S. Students – 1 year and M.Phil. – 6 months and Integrated M. Sc., - 6 months in different institutes and Industries. Discussions are conducted in

various Faculty Councils and in IQAC on curriculum development and syllabus revision according to international standards, new trends and developments in the field of knowledge. Yearly Expert committee meetings held for the assessment and review of curriculum. Feedback from various sources like students and faculties are utilised for the purpose.

Please see annexure 6.3.1

6.3.2 Teaching and Learning

New courses were introduced such as Integrated MSc. PhD in Nanoscience and Nanotechnology (IIUCNN), Master of Economics (K N Raj Study Centre) etc. in order to attract students from other states of the country. Notifications for the admission to all courses of MG University were advertised nationally and entrance test were conducted nationally.

The University catered to the advancement of research by attracting several promising postdoctoral students through D.S Kothari Postdoctoral Fellowships (UGC Scheme), Kerala State Science and Technology Council Fellowships etc.

International research students were attracted to various research centers of the University to perform their curriculum research projects of shorter durations. (Eg: Indo-French fellowship under Raman Charpak bilateral scheme prevailing at IIUCNN).

Catering to student diversity: International and National students from various socio-economic and cultural backgrounds were admitted under different study and research programmes of the University. Their amalgamation and mutually beneficial academic activities caters student diversity.

Teacher Quality: Measures were taken to ensure the enrichment of faculty pool by engaging teachers with high professional qualification and postdoctoral experience. Assurance was made to engage such faculty skills driving through various research programmes and are enumerated through publications and patents as visible outputs.

University departments also host several research projects driven by faculties (FIP and FDP of University Grants Commission). Various faculty members of the University were periodically sent out side for training programs (MHRD schemes).

Student performance and learning outcome: Periodic evolutions on student progression were made through surprise tests. It was insisted to have inter-departmental seminars and group discussions. Special laboratory exercises were made for better understating of the theory thought at the class room. Certain departments are conducting online tests. Experts from industries were invited to have classes on academia-industry collaborative activities. Students are provided opportunity to listen and interact with subject experts of various disciplines through Erudite Lecture series programme. Weekly seminars and monthly work presentation of the research scholars (PhD and Masters Research schemes) were introduced to improve their research skills.

State of the art facilities for teaching: The University is providing best teaching environment for the students by providing smart class rooms, power point presentations and videos for better understanding.

Remedial classes for the weak students: Special classes were conducted to improve the less adaptable and differently abled student sections. The gaps in learning are checked and remedial measures proposed. Information based, theory oriented, and experimental learning and teaching methods are employed.

Effective, transparent, rigorous internal mechanisms are utilized to assess and monitor the cognitive ability of students, as well as to ascertain the level of knowledge, intelligence and skills of articulation that the students have acquired over time.

Please see Annexure 6.3.2

6.3.3 Examination and Evaluation

Periodic evaluations on student progression were made through surprise tests. It was insisted to have inter-departmental seminars and group discussions. Special laboratory exercises were made for better understating of the theory thought at the class room. Certain departments are conducting online tests. Experts from industries were invited to have classes on academia-industry collaborative activities. Students are provided opportunity to listen and interact with subject experts of various disciplines through Erudite Lecture series programme. Weekly seminars and monthly work presentation of the research scholars (PhD and Masters Research schemes) were introduced to improve their research skills.

Please see Annexure 6.3.2

6.3.4 Research and Development

The faculties could bring funding for research from external funding agencies such as DST, BRNS, AICTE, KSCSTE, DBT, DRDO, DIT etc. Faculties also could bring core funding by submitting mega proposals jointly with different Schools and Centres. Industrial support from companies like MRF India, Surface Street Czech Republic could be obtained.

Promotion of Research

- ❖ University has formulated a committee to monitor the research activities of the university.
- ❖ The University encouraged departments and centres to undertake research activities.
 - Faculties are encouraged to attend conferences and workshops.
- ❖ Single window system for submitting project proposals
- ❖ Notifying all the faculties about the research calls from different funding agencies.
- ❖ University Industrial Interface Meeting was held.

Resource Mobilization for Research

- ❖ Faculties are encouraged to submit research proposals to different funding agencies.
- ❖ Faculties could submit research proposal to Kerala Government for Core funding.

Research Facilities

- ❖ The research infrastructure and facilities have been upgraded and the department have come up with product development.
 - Many instruments required for research activates are purchased by centres and departments.

- Schools and Centres have been given funding for Annual Maintenance funds for maintaining the instruments.
- ❖ In order to give proper idea and understanding about the research, the university has implemented one semester course work on Research Methodology for all the research scholars as per UGC regulation.

Research Publications and Awards

- ❖ Faculties of various Schools and Centres have published many research papers in International refereed journals.
- ❖ Faculties also contributed book chapters and reviews.
- ❖ Several books have been edited by the faculties.
- ❖ Patents have been filed.
- ❖ One of the major initiatives taken up by the university is to conduct research to address the problems faced by the differentially abled people.

Consultancy

- ❖ Faculties act as consultants for different industries.
- ❖ Faculties provide consultancy service to the government departments and laboratory.

Extension Activities and Institutional Social Responsibility

- ❖ Students and faculties participate in extension activities like NSS, NCC and other NGOs.
- ❖ Regularly organise outreach programmes as a part of academic curricula.
- ❖ Faculties give lectures at the schools, colleges, village agriculture units (Krishi Bhavan) to promote research and science.
- ❖ School and College students are given opportunities to work in the laboratory for summer projects.

Collaborations

- ❖ Many departments of the University have wide research collaborations with many national and international research groups and universities in terms of joint research projects, student exchange programmes etc., and signed MOU with large number of Universities abroad.
- ❖ Schools and Centres have collaboration with industries like MRF, Apollo Tyres etc.

Please see Annexure 6.3.4

6.3.5 Library, ICT and physical infrastructure / instrumentation

Please see Annexure 6.3.5

6.3.6 Human Resource Management

- ❖ Faculty developmet programmes are conducted by all the Schools and Centres.
- ❖ Student development programmes are conducted by all the Schools and Centres.
- ❖ Add-on-courses and innovative technology in teaching have implemented by all the Schools and Centes.
- ❖ Training is given to administrative staff on computerization and official Malayalam language uses.
- ❖ Short course on modern Pedagogi to faculties.
- ❖ In depth course on Plagiarism software usage.

Please see Annexure 6.3.6

6.3.7 Faculty and Staff recruitment

The recruitment is done in accordance with UGC regulations/University rules and regulations. The School has been provided with additional faculty (both ad hoc and temporary) to manage the programmes in place. Steps have been initiated to further fill the existing vacancies.

Please see Annexure 6.3.7

6.3.8 Industry Interaction / Collaboration

- ❖ Students undertake major and minor research projects for various industries (eg., MRF, Apollo etc.,)
- ❖ Industrial visits are undertaken by students of various Schools and Centres.
- ❖ Industries often conduct campus interviews and select students from the University.
- ❖ Proposals are being submitted for joint research projects with industries to government funding agencies.
- ❖ Talks by industrial experts are being organised by Schools and Centres.
- ❖ Students carry out curriculum projects at various industries.
- ❖ Signed MOU with various industries.

Please see Annexure 6.3.8

6.3.9 Admission of Students

- ❖ Admissions to PG and MPhil courses are through entrance tests and interviews held on a yearly basis.
- ❖ Ph.D Admissions are through entrance tests, screening by doctoral Committees, counselling, and tests using methods like AAPHER, Game Proficiency Test, Group Discussion etc., as per UGC, AICTE norms. Reservation policy is strictly adhered to.
- ❖ Permanent registration is provided only after successful completion of course work.

Please see Annexure 6.3.9

6.4 Welfare schemes for

Teaching	Health Card, PAI, Quarters, Creche, Med.Reibursement,Recreation Facility LTC, Weightage to children for admission to Professional Colleges run by the University.
Non Teaching	As above
Students	Hostel Facility , Insurance , financial support, fees concession , scholarships, fellowships , guidance and counselling, grievance cell etc.

Please see Annexure 6.4

6.5 Total corpus fund generated

72, 84, 15,706/

6.6 Whether annual financial audit has been done

Yes No

6.7 Whether Academic and Administrative Audit (AAA) have been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Examiners	Yes	Faculty Council
Administrative	Yes	Local Fund Audit	Yes	Audit Sections

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- Credit Based Semester system/ Semester system has been used for various courses with elaborate systems for Internal and external evaluations.
- Continuous internal evaluation is undertaken on the basis of assignments, seminars, debates, discussions, journal club, quiz competitions, model exams, students' attendance etc.
- Double/ single valuation of Answer scripts and Dissertations (SPS). In particular cases, facilities are provided to write the examinations in Malayalam.
- The Academic/Exam calendar/Time Table for internal and external examinations are adhered to.
- Fruitful steps are taken for the time-bound valuation and publication of results.
- Examination activities are carried out with the help of ICT. Three server facilities are used simultaneously by the University. The state Govt supported Rs 2.0 Crore Data Centre is coming up the University.
- Hall tickets are issued through online for majority of the exams.
- Bar Coded Stitched Answer Books containing 24/28 pages have been introduced for the CBCSS examinations
- Online transmission of valued data (Grades) is used for the transfer of data from the Centralized Valuation Camps to the Computer Wing of the University.
- Choice Based Credit and Semester system (CBCSS) has been introduced to the candidates of Private institutions
- Computer generated degree certificates are awarded.
- The CSS committee has initiated steps to revamp and consolidate amendments made in the Regulations from time to time Regulations in place in the University have already brought

in major changes in the conduct of the various programmes and evaluation system. The School also followed innovative practices within the limits of the CSS

- The CSS committee has initiated steps to revamp and consolidate amendments made in the Regulations from time to time Regulations in place in the University have already brought in major changes in the conduct of the various programmes and evaluation system. The School also followed innovative practices within the limits of the CSS

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

University framed rules and regulations for granting autonomy status to the affiliated/constituent colleges. However, the final clearance of the government is waiting.

6.11 Activities and support from the Alumni Association

- All the Schools and Centres of the University conduct periodic meetings, workshop and conference on regular basis.
- Alumni awards have been formulated for excellent students.
- Each Schools and Centres has a faculty member who looks after the alumni programmes.
- Alumni feedback is taken to revise the syllabus and the curriculum.
- Alumni also supports the students to get good placement.

Please see annexure 6.11

6.12 Activities and support from the Parent – Teacher Association

- Schools and Centres conduct meetings on a regular basis.
- Parents are invited to inform the performance of the students.

Please see Annexure 6.12

6.13 Development programmes for support staff

- Frequent workshops were conducted to improve the computer skills of the support staff.
- Secretarial training was provided for the support staffs.
- Instrumental trainings were organized.
- Training was given on how to organize and maintain the University files.

6.14 Initiatives taken by the institution to make the campus eco-friendly.

- University is protecting the greenery of the campus by planting new trees inside the campus.
- Environmental awareness campaigns were conducted in the campus and outside to protect the mother earth. The University campus is plastic free.
- All the shops inside the campus were given strict directions not to provide plastic items in the campus.
- The University promoted the use of cloth banners inside the campus. Garbage boxes were placed inside the campus to collect waste.

- The chemical laboratory of various Schools and Centres have started using different collection tanks for collecting waste alkalies, acids and halogenated chemicals. They are periodically given to approved agencies for disposal.
- School of Environmental Sciences has launched a major extension programme known as “Rainwater for Humanity” in collaboration with Brown University USA, local Panchayath and self help groups.
- Through this extension programme, University has adopted a village with an objective of providing basic amenities like drinking water and sanitation.
- Rainwater harvesting structure with a capacity of 1.1 lakh litres and 13 ten thousand litre capacity harvesting tanks were constructed at Achinakom village in Vechoor Grama Panchayath in Kuttanad Region. A total 56 families are getting drinking water through these tanks.
- Jeevika-the live laboratory has been maintained for the conservation of indigenous plants, conservation of watershed, micro- habitats and related biodiversity within the campus. Gardens and vegetation of medicinal plants are well maintained by Club of Environmental Students (CLENS).
- University celebrated important world days like Ozone day, Environment day etc by conducting different programmes inside and outside the campus.
- As a part of World Environment Day herbal plants were planted in the premises of the office.
- The students of Organic Farming course took initiative in collecting and exchanging rare seeds and saplings.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

The various University Departments undertook innovative strategies to streamline their academic activities during the year. These involve periodic presentations by Research Scholars, debates, and discussions etc., meant for developing the analytical and cognitive skills and enhancing the self confidence of research students. PG students are given instruction in Research Methodology and tools for research. Admissions are conducted online. Effective, transparent, rigorous internal mechanisms are used to assess level of knowledge, intelligence and articulation acquired over time by the students. Group-wise and individual review sessions are conducted periodically to monitor gaps in learning. Instructional methods are learner friendly, theoretically informed and self- reflexive. Seminars, book/ article review sessions, group interfaces etc., are conducted. Help desk to solve various problems of students. Bar coding of books in the Library, digitalization of catalogue, computerisation of offices.

Please see Annexure 7.1

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- Periodically updated the curriculum and syllabus.
- Most schools used ICT integrated teaching methods as well as new audio-visual method for curricular transactions.
- Developed effective, transparent and rigorous internal mechanism to assess the cognitive ability of the students.
- Teaching and learning practices were done in a student centric manner.
- Provided platform for the students to improve their knowledge and skill by aid of field work, interaction with eminent scientists/personalities.
- The academic programmes were reviewed and redesigned under the Credit and Semester System (CSS).
- The evaluation and publication of the results are also done on a time bound manner without fail.
- The students are evaluated through their performance in internal and external examinations, assignments and seminars.
- Continuous internal assessment was made in a time bound manner.
- PhD theses are archived in the University library.
- Appointed adequate number of administrative staff and academic staff.
- The academic staffs were undergone refresher programs, conferences, seminars and academic exchange to enrich their knowledge, teaching and research experience.
- Newly appointed faculties got a preparatory amount to start their lab and research activities.
- Administrative staffs were also exposed to internal and external training programs for quality improvement.
- The achievements of the staffs and students are recognized with appreciation and by honouring them.
- Various cultural and social clusters were formed by students and staffs, organizing recreational events, social mobility programs, environmental campaigns etc.
- The faculties were recruited according to the UGC regulation.
- Centralized Allotment Process for admission to UGC and PG programmes under merit/reservation seats.
- MOU signed with industries, universities and research labs.
- PhD and PG students are sent abroad for project work.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- a. Introduced a rainwater harvesting programme whereby rainwater from all the buildings in the campus are channelled to ease the shortage of water during the lean months.
- b. To focus on the e-governance and e-learning.

Details in annexure (annexure need to be numbered as i, ii, iii).

7.4 Contribution to environmental awareness / protection

Go green and plant a tree to save the environment: Green college campus program was introduced by the University, as directed by the VC all the colleges and Departments Planted more and more Trees to make the campus greener.

Green week: Green week program was celebrated by the Environmental science students by conducting seminars and awareness programs.

World environment day: Under the theme “*Seven Billion Dreams, One Planet, Consume with care*”, Mahatma Gandhi University introduced many programs. As a continuation of the initiative taken in the previous year to make the campus plastic free, all the centers and departments are using Biodegradable (COTTON) fabric Printing.

Waste Management: *Waste management* programe is all the activities and actions required to manage waste from its inception to its final disposal. In all the departments and Centers there is a waste bin to collect food waste to make organic fertilizer. Wormy compost pits were made by the Environmental science students.

Organic farming for Chemical free Vegetables: *Organic* Revolution against genetically modified crops and use of pesticides in *agriculture* for protecting biodiversity through a five-year action plan was introduced. In continuation with this program research scholars and students of the entire department participated in organic farming.

Rainwater Harvesting System: To collect the rain water for drinking, cooking and bathing purpose rain water harvesting systems were established.

Organic Fertilizer from organic waste; The Department of Life Long Learning and Extension and the Department of Environmental Sciences have been collecting food waste from other departments and produce organic fertilizer for the vegetable cultivation.

Public participation: University organized public awareness programmes, such as planting of tree, harvesting the rain water, organic farming for chemical free vegetables and waste management.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (For example: SWOT Analysis)

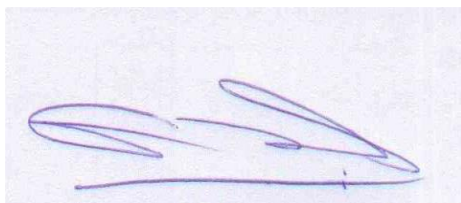
- The University is working on providing continuous water supply in the campus.
- The University is working on providing uninterrupted supply of electricity
- The University is constructing new buildings in terms of Academia complex and hostels
- The University proposed to develop sophisticated instrument facilities for the betterment of the research activities.
- The University is developing good auditorium and seminar complex
- New evaluation methods for students
- Build Food court facility in the campus
- Implementing Smart classroom in all the Schools and Depatrments.

- The faculty members are alerted, from time to time, regarding the inevitability of understanding their strengths and weaknesses on the basis of the teacher evaluation done by students in every semester. The class-performance of the faculty was also assessed based on the feedback received from students and research scholars. The strengths and weaknesses of the School in general are made known to the internal stakeholders as well as external beneficiaries through alert-communication messages.

8. Plans of institution for next year

- ✓ Excellence in academic and Research activities. Attracting more research funds for sustainability and development.
- ✓ To develop collaborations at various levels between the Departments and various international, national Institutions.
- ✓ Extending counselling programs for students. Proposed enhancement of infrastructural facilities like class rooms, seminar halls and modern amenities.
- ✓ To make necessary recruitments of faculty.
- ✓ To procure necessary educational aids. Introducing remedial coaching for weaker students. Wi-fi connectivity for online learning.
- ✓ Plans to introduce lesson plan system for effective course management. Plans for bringing experts from foreign universities to augment efforts for internationalisation. To publish books on research outputs of research centres of the University. Starting of new programmes.
- ✓ Time bound assessment and declaration of results. Take measures for career guidance. To conduct programmes giving stress in inclusive education.

Name: Prof (Dr) Sabu Thomas



Signature of the Director, IQAC

PD Hills

08/08/2016

Name: Dr. Babu Sebastian, Vice Chancellor



Signature of the Chairperson, IQAC

Annexure I

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

Criterion - I

Department	Level of the Programme	Subject	
School of Behavioural Sciences	PG Diploma	Indian Sign Language	
	PG	M.Sc. Disability Studies and Rehabilitation Sciences	
		M.Sc. Psychology	
	M.Phil	Behavioural medicine & Rehabilitation (Full Time, Part Time)	
		Rehabilitation Psychology	
		Special Education & Rehabilitation Sciences	
		Behavioural Sciences and Rehabilitation Nursing	
	Ph D	Special Education	
		Rehabilitation Psychology	
		Behavioural Medicine	
		Rehabilitation Nursing	
	School of Biosciences	PG	M.Sc. Microbiology
			M.Sc. Biochemistry
M.Sc. Biotechnology			
M.Sc. Biophysics			
M.Phil		Biosciences	
Ph D		Microbiology	
		Biochemistry	
		Biotechnology	
		Biophysics	
		Physiology	
School of Chemical Sciences	PG	M.Sc. Organic Chemistry	

		M.Sc. Inorganic Chemistry
		M.Sc. Physical Chemistry
		M.Sc. Polymer Science
	M.Phil	Inorganic Chemistry
		Organic Chemistry
		Physical Chemistry
		Polymer Chemistry
	M. Tech	Polymer Science & Technology
	M.Sc. PhD (Integrated)	Chemistry
		Chemical Physics
	Ph D	Inorganic Chemistry
		Organic Chemistry
		Physical Chemistry
		Polymer Science & Technology
School of Computer Sciences	PG	M.Sc. Computer Science
	M. Tech	Computer Science & Technology
	Ph D	Computer Science
School of Environmental Sciences	Certificate Course	Geo-information Science & Technology
	PG	M.Sc. Environment Science & Management
		M.Sc. Environment Science & Disaster Management
	M. Phil	Environment Management
	Ph D	Environmental Chemistry
		Biotechnology
		Geosciences
		Toxicology
		Wetland
		Biodiversity
		Waste Management
		Climate change
		Forestry
Disaster Management		

Sl. No.	Department	Level of the Programme	Subject
		PG	MA Gandhian Studies

6	School of Gandhian Thought and Development Studies	M.Phil	MA Development Studies
			Development Studies
			Gandhian Studies
		Ph D	Social Work
			Development Studies
			Gandhian Studies
7	School of Indian Legal Thought	UG	3 Year LLB (4 pm-9 pm)
			5 Year BBA LLB (Hons)
		PG	LLM
		Ph D	Law
8	School of International Relations & Politics	PG	MA Politics & International Relations
			MA Politics & Human Rights
			MA Politics (Public Policy & Governance)
		M. Phil	Politics and International Relations
		Ph D	Politics
			Economics
9	School of Letters	PG	MA English
			MA Malayalam
		M.Phil	Malayalam
			English
			Theatre Arts
		Ph D	English
			Malayalam
			Theatre Arts
			Fine Arts
		10	School of Management and Business Studies
M.Phil	Business Studies		
Ph D	Management		
11		PG	M.Ed

	School of Pedagogical Sciences	M. Phil	Education
		Ph D	Education
12	School of Physical Education & Sports Sciences	PG	M.PEd
13	School of Pure and Applied Physics	PG	M.Sc. Physics
		M. Phil	Physics
		Ph D	Physics
14	School of Social Sciences	PG	MA History
			MA Anthropology
		M.Phil	Social Sciences
			Social Transformation and Empowerment
			Human Ecology & Natural History
Ph D	All subjects under the Faculty of Social Sciences		
15	School of Tourism Studies	PG	Master of Tourism Management
16	Dr.K.N.Raj Study Centre for Planning and Centre-State Financial Relations	PG	MA Economics
17	International and Inter University Centre for Nanoscience and Nanotechnology	PG Diploma	Nanoscience and Nanotechnology
		PG	MS (Nanoscience and Nanotechnology)
		M Phil	Nanoscience and Nanotechnology
		PhD	Nanoscience and Nanotechnology
		Integrated PhD	Nanoscience and Nanotechnology
18	Advanced Centre of Environmental Studies and Sustainable Development	Ph D	Environmental Science
			Chemistry
			Forestry

			Climate Change
19	Inter University Centre for Disability Studies	Short Term Certificate Programme	Disability Rehabilitation
			Early Assessment and Management Services
			Speech Therapy
			Physiotherapy
			Psychological Assessments
			Counselling Services
		Disability Assessments	
		M Phil	Disability Studies
20	Inter University Centre for Social Science Research and Extension	PhD	Human Geography
			Human Ecology
			Social Transformation Studies
			Gender Studies
			Tribal Studies
			Sustainable Development Studies
21	Institute for Intensive Research in Basic Sciences	PG	Five year integrated Inter Disciplinary M Sc Programme in Chemistry, Physics and Biology
22	Centre for English Language and Communication Skills	Certificate Programmes	Post Graduate Certificate in English Communication
		PG Diploma	Post Graduate Diploma in English Communication
		Short Term Courses	English Language and Communication
23	Institute for Contemporary Chinese Studies	M Phil	Chinese Studies
		PhD	Chinese Studies
		Certificate	Counselling

24	Department of Life Long Learning and Extension	Programmes	Management of Learning Disabilities
			Yogic Science
			Organic Farming
		Diploma programmes	Yogic Science
			Organic Farming
25	Department of Library & Information Science	UG	B L I Sc
		PG	M L I Sc
26	Department of communication & Journalism	PG	MCJ
27	Inter University Instrumentation Centre	Short Term Courses	Analytical Instrumentation
		PhD	
28	Advanced Molecular Materials Research Centre	Short Term Courses	Material Sciences
		PhD	Nano Materials Chemistry
			Energetic Materials
			Metal Organic Frame works
			Solid State Kinetics
			Bio Materials
			Theoretical Modelling
			Nano Photo Catalysis
Ferro Fluids			
29	National Institute of Plant Science Technology	M.Sc PhD (Integrated)	
30	School of Medical Education	UG	B Sc Nursing
			B Pharm
			B Sc Medical Radiological Technology

			B Sc Medical Laboratory Technician
			B Sc Physiotherapy
			B Sc Medical Microbiology
		PG	M Pharm (A) Pharmaceutics
			M Pharm (B) Pharmacognosy
			M Pharm (C) Pharmacology
			M Pharm (D) Pharmaceutical Chemistry
			Master of Hospital Administration
			Master of Public Health
			Master of Physiotherapy
			M Sc Medical Anatomy
			M Sc Medical Microbiology
			M Sc Medical Biochemistry
			Master of Applied Science Medical documentation
Master of applied Biomedical Documentation			
Ph D	Pharmacy		
31	School of Technology and Applied Sciences	UG	B Sc Computer Science
			B Sc Electronics
			B Tech Polymer Engineering
		PG	MCA
			MSc Computer Engineering and Network Technology
			M Sc Applied electronics
			M Sc Computer Science

			M Sc Space Science And Technology
32	University College of Engineering	UG	B Tech (Computer Science & Engineering)
			B Tech (Electrical & Electronics)
			B Tech (Polymer Engineering)
			B Tech (IT)
		B Tech (Electronics & Communication Engineering)	
		PG	M Tech (Applied Electronics)
33	School of Applied Life Sciences	PG	M Sc Fishery Biology & Aquaculture
		M Phil	Fishery Biology & Aquaculture
34	University College of Teacher education	UG	B Ed
		PG	M Ed

2.5 Faculty participation in Conferences and Symposia:

The detailed information of the faculty participation in conferences and symposia are listed as each school and then faculty wise as follows,

SCHOOL OF BEHAVIOURAL SCIENCE

Prof. Dr. P.S Sukumaran

1. Conducted a one day Seminar on "National Trust for Welfare of Persons with Mental Retardation, Autism, Cerebral Palsy and Multiple Disabilities Act, 1999" on 15th December 2014.
2. Organized an Orientation Seminar on New Regulations of Rehabilitation Council of India & NCTE for B. Ed. Special Education. School of Behavioural Sciences. 5.2.2015.

3. Organized a Seminar on “National Trust Act, 1999 and Legal Guardianship, for the Parents of Individuals with Autism, Cerebral Palsy, Mental Retardation and Multiple Disabilities, School of Behavioural Sciences, M.G. University. 15.12.2014.
4. Resource Person and Presented Paper on ‘Education of Children with Intellectual Disability – Trends and Issues’. One Day Seminar on ‘Education of Differently Abled Children – Redefining the Role of Teacher Educators’. St. Mary’s College of Teacher Education, Thiruvalla. 13.3.2015.
5. Presented Paper by Simili P. Chacko and P.S.Sukumaran on ‘Awareness of parents of Persons with Mental Retardation on CBR Programm’. One Day Seminar on ‘Education of Differently Abled Children – Redefining the Role of Teacher Educators’. St. Mary’s College of Teacher Education, Thiruvalla. 13.3.2015.
6. Resource Person and Presented Paper on ‘Special Education for Students with Intellectual Disability, ‘Seminar on Education of Children with Intellectual Disability’. National College for Teacher Education, Vengola, Perumbavoor, 25.3.2015.
7. Summit of Mind’, National Interactive Meet, organized by the Rehabilitation Council of India, New Delhi, 7 – 8, February 2014.
8. Resource Person and Presented Paper on, Inclusive Education of Students with Mental Retardation and Learning Disabilities’ , National Seminar on “Inclusive Education: an Imperative for Learning to Live Together’., Organized by Titus II College of Education, Thiruvalla 9-10, October, 2014
9. Chairman, Paper Presentation Session, National Seminar on Ageing Gracefully- A multidisciplinary perspective” organized by School of Gandhian Thought and Development Studies, M.G University, 24.11.2014.
10. Presented Paper by Jayani A., and P.S.Sukumaran on, “Awareness of Teachers of Children with Mental Retardation on Reinforcement Strategies”. National Seminar on Paradigms of Educational Research for the 21st Century: Equipping Gen. Next with Reflective Approaches, , Organized by Avila College of Education, Edakochi. 5.12.2014
11. Resource Person and Presented Paper on, “Sampling Techniques and Statistics in Educational Research”. National Workshop on

'Quantitative Research and Data Analysis' Organized by Govt. College of Teacher Education, Trivandrum. 16.12..2014.

12. Resource Person and Presented Paper on, 'Education of Children with Intellectual Disability – Problems and Prospects'. One day Seminar on 'Special Education'. Organized by NSS Training College, Ottapalam. 6.2.2015.
13. Resource Person and Presented Paper on 'Perspectives in Inclusive Education of Students with Intellectual Disability – A Reappraisal'. National Seminar on 'New Perspectives on Inclusive Education of Children with Special Needs'. Organized by DIET, Wayanad, Sulthan Bathery. 27.3.2015.

Dr. P.T Baburaj

14. 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 Resource Person – 25th anniversary of UNCRC seminar on 15.12.2014 at BCM College, Kottayam.
15. Attended Three days International Symposium on "Assistive Technology for Rehabilitation and Management" on 2-4 December 2014 at Thiruvananthapuram.
16. Documentary film 'titled Retrofit carkit for physically Challenged" presented in the three-day International Symposium
17. One day parents training programme for the mentally challenged at Kollappilly, Pala on 20.12.2014 as Resource person.
18. Paper presented on 'Knowledge and attitude of Adolescent girls on sex education'
19. National Seminar on paradigms of educational research for the 21st century equipping gen next relative approaches on 5th and 6th December 2014.

SCHOOL OF BIOSCIENCES

Dr.LinuMathew

20. Workshop on molecular phylogenetics 1/8/14-5/08/14, IISC bangalore

21. Workshop on molecular techniques in microbiology CFTRI, Mysore sept 2-19 2014
22. Workshop on molecular docking and drug designing 23rd march-25th march.
23. Cochin college Kochi, on the topic databases and database searching, in seminar on Bioinformatics and biotechnology
24. B K college Amalagiri UGC sponsored Seminar on Utilization , Management and conservation of Medicinal plants

Dr.Jayachandran.K

25. Attended and delivered an invited talk on “Biodegradation and its applications” in the national seminar conducted by Society for evolutionary and integrative biology on December 18 th 2014 at Kerala University, Thiruvananthapuram
26. Attended national seminar “Advances in Biotechnology 2014 held at Cochin University of Science and technology during 15 th -16 th December 2014
27. Attended and presented a paper in third international Conference on Advanced oxidation Process (AOP 2 014) held on September 25 th to 28 th , 2014 at Munnar
28. Attended and presented a paper in International Conference on “Biosciences State of the Art advancements) held on September 11 th to 12 th , 2014 at Kumarakom. Kottayam
29. Attended national science academy’s lecture workshop 28-29, March 2014, MACFAST, Thiruvalla

Dr.Harikumaran Nair

30. Abhilash S, Vineetha R C, Mathews VV, Harikumaran 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.
31. Abhilash S and Harikumaran Nair R. Docosahexaenoic 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.
32. Vineetha R C, Abhilash S, Harikumaran 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.

State level Conference

33. Abhilash S, Vineetha R C, Mathews VV, R Harikumar Nair. Anticancer drug toxicity on cardiomyoblasts. Book of Abstracts, UGC sponsored State level seminar on 'Stem cell therapy and cancer', organized by Department of Biotechnology, SAS SNDP Yogam College, Konni, Pathanamthitta, Kerala, India, February 2014.
34. Abhilash S, Harikumar Nair, R. Effect of Docosahexaenoic acid against promyelocytic leukemia drug- Arsenic trioxide mediated toxicity in H9c2 cardiomyocytes. 26th Kerala Science Congress, January 2014 at KVASU, Wayanad. Kerala, India. pp. 2778- 84.
35. Vineetha R C, Abhilash S, R Harikumar Nair. L-Ascorbic acid (Vitamin C) to prevent the cardiotoxicity in H9c2 cardiomyoblasts by chemotherapeutic agent. Book of Abstracts, UGC sponsored State level seminar on 'Stem cell therapy and cancer', organized by Department of Biotechnology, SAS SNDP Yogam College, Konni, Pathanamthitta, Kerala, India, February 2014.

DR.Radhakrishnan.E K

36. Invited Lecture at the Inauguration of Botany and Biotechnology Association of Bishop Moore College, Mavelikara on 20th February, 2014.
37. Invited Lecture in the technical seminar on "Interactive meet on Advances in Biosciences" organised by Indian Institute of Spice Research, Calicut on Feb 26th 2014.
38. Invited Lecture at UGC sponsored "National Seminar on Microbes for Green Environment" organised by St.Mary's College, Thrissur on 22nd August 2014.
39. Invited Lecture at the "National seminar on Industrial Microbiology- Trends and Perspectives" organized by Department of Biochemistry and Microbiology, Govt. College for Women, Thiruvananthapuram on October 14, 2014.

Dr.Jisha M.S

40. 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
41. 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.

42. A simple and effective method for extraction of high purity chitosan from shrimp shell waste” with paper ID “ASEE-14-408 International Conference On Advances in Applied Science and Environmental Engineering - ASEE 2014, Institute of Research Engineers and Doctors (IRED), 2nd to 3rd August 2014 Kuala Lumpur, Malaysia, International
43. Chlorpyrifos degradation using bacterial consortium obtained from soil” with paper ID “ASEE-14-389 International Conference On Advances in Applied Science and Environmental Engineering - ASEE 2014, Institute of Research Engineers and Doctors (IRED), 2nd to 3rd August 2014 Kuala Lumpur, Malaysia, International
44. 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.

Dr.Keerthi T R

International

45. Keerthi T. R. Amrutha H and Savitha K. Koilery (2014). Co synthesis of Citric Acid during Polysaccharide Production by a Marine Yeast *Meyerozyma guilliermondii* MBTU-MYW1 (JN128648) 4th Annual International Conference on Advances in Biotechnology (BioTech 2014)Dubai,,BITS Pilani Campus 10-11th March 2014 ISSN:2251-3159

National

46. 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, *Zygomycete parishii* 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
47. Nithin T. U., Keerthi T.R., and Linu Mathew(2014) Bioprospecting of novel marine bacteria *Idiomarina* 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

State

48. Bincy Jacob, K.A. Athira Krishnan, T.R. Keerthi, K.Jaychandaran (2015). Antagonistic and cytotoxic effect of different cellular

components of a marine symbiont MBTU-SOB1 from a marine sponge, *Spongia officinalis* var. *ceylonensis* Proceedings of the 27th Kerala Science Congress, Alappuzha. January 27-24, 2015.p.162 Abstract only.

49. Sumayya Jauhara, Honey Chandran C., Keerthi T.R. (2015). Comparative evaluation of probiotic potency of *Bacillus coagulans*, MBTU-P1F2 from infant faeces with a known probiotic *Bacillus clausii* from Enterogermina. 27th Kerala Science Congress, Alappuzha. January 27-24, 2015. p.164. Abstract only
50. Athira Krishnan, T.R. Keerthi and K. Jayachandran(2014) Bioactivity and chemical composition of two organic extracts prepared from Marine sponge, *Spongia officinalis* var. *ceylonensis* Proceedings of 26th Kerala Science Congress 28-31, January, 2014, Wayanad, Kerala:3242-49
51. Nithin T.U., T.R. Keerthi, and Linu Mathew (2014) Bioactive properties of ethyl acetate fraction of marine bacteria *Staphylococcus warneri* Proceedings of 26th Kerala Science Congress 28-31, January, 2014, Wayanad, Kerala:3261-70
52. Bincy Jacob, K.A. Athira Krishnan, T.R. Keerthi, K.Jaychandaran (2015). Antagonistic and cytotoxic effect of different cellular components of a marine symbiont MBTU-SOB1 from a marine sponge, *Spongia officinalis* var. *ceylonensis* 27th Kerala Science Congress, Alappuzha. January 27-24, 2015. Poster Presentation.
53. Sumayya Jauhara, Honey Chandran C., Keerthi T.R. (2015). Comparative evaluation of probiotic potency of *Bacillus coagulans*, MBTU-P1F2 from infant faeces with a known probiotic *Bacillus clausii* from Enterogermina. 27th Kerala Science Congress, Alappuzha. January 27-24, 2015. Poster Presentation.
54. K.A. Athira Krishnan, T.R. Keerthi, and K. Jayachandran (2014) Bioactivity and chemical composition of two organic extracts prepared from Marine sponge, *Spongia officinalis* var. *ceylonensis*. 26th Kerala Science Congress 28-31, January, 2014, Wayanad, Kerala. Oral presentation
55. Nithin T.U., T.R. Keerthi, and Linu Mathew (2014) Bioactive properties of ethyl acetate fraction of marine bacteria *Staphylococcus warneri* Proceedings of 26th Kerala Science Congress 28-31, January, 2014, Wayanad, Kerala. Oral presentation

Invited Lectures

56. Probiotic as health promoting nutraceutical and therapeutic agent. UGC sponsored National Seminar cum Workshop on Techniques in Biosciences, February 18th to 19th 2014, Department of Botany, KKTU Govt. College. Kodungallur.

57. Role of Lactobacilli in gut microbiota. ZEITGEIST, (2014). Microbial conference and Cultural Fest, 25th June 2014, By Association of Medical microbiology students, University College of Medical Education, Gandhinagar, Kottayam, Kerala

Dr. Anie Y

58. Neethi Raj P, Haritha V. H and Anie Y. (2015, January 27-29). Neutrophil extracellular trap formation during hyperglycemia. In Mara Pandiyan (Eds.), Proceedings of the 27th Kerala Science Congress. 27-29 January (pp-123-124). Alappuzha, Kerala.
59. Binchu V Shaji, Neethi Raj, Haritha V H, Anie Y. Modulation of PMN (polymorphonuclear leukocyte) secretion and its impact on monocyte function in the presence of hyperglycemia and / or hyperinsulinemia. In the proceedings 24th swadeshi science congress held from 6-8 November 2014 at Malappuram, Kerala. Pp-661.
60. Hazeena V.N., Jayachandran K., Anie Y. Ethyl acetate fraction of Vernonia anthelmintica: 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.
61. Rose Kurien and Anie Y. In vitro analysis of the ethyl acetate fraction of Vernonia Anthelminticum. In the proceedings 24th swadeshi science congress held from 6-8 November 2014 at Malappuram, Kerala. Pp-681.
62. Surya P Rajendran, Liji L, Hazeena V. N., Jayachandran K., and Anie Y. Fibrinolytic enzyme production by Bacillus species. In the proceedings 24th swadeshi science congress held from 6-8 November 2014 at Malappuram, Kerala. Pp-687.
63. Invited Lecture on 'Bio-fuel from Algae: Emerging Eco-technology to combat energy crisis' organized by the Department of Botany, St Albert's College Ernakulam,; 05-06 February 2015
64. Invited Lecture on 'Sustainable Soil Management' in Bhoosparsam -2015 - Organic Agro-Educational-Health Fest, organized by Vision Green Society, 19-20, January 2015

SCHOOL OF CHEMICAL SCIENCES

Prof. Sabu Thomas

65. 2014 March, Plenary Speaker, University of Basra, Iraq
66. 2014, April, Invited Speaker, University Tehcology, Mara, Malaysia
67. 2014 May, Invited Speaker, Warsaw University of Tehcology, Warsaw, Poland
68. 2014 July, Invited Speaker, Durban University of Tehcnology, Durban, South Africa
69. 2014, July, Invited Speaker, CSIR, Port Elizabeth, South Africa

70. 2014 July, Invited Speaker, Cape Peninsula University of Technology, Cape Town, South Africa
71. 2015 March Visiting Professor, LIMATB, and France
72. 2015, March, Invited Speaker, , University of Strasborg , France
73. 2015 March Institute for Polymer Research Dresden (IPF), Dresden, Germany
74. 2015, May, Invited Speaker, Singapore
75. 2015, May, 2015 University of Graz, Austria

SCHOOL OF COMPUTER SCIENCES

Dr. R. Vijayakumar

81.	“Advanced computing for High performance computing applications”	Vijayakumar,R, Kiran V K	IV International Conference on Advanced Computing and Communication for High performance computing applications”, June 2014, FISAT ,Ernakulum, Kerala
82.	Scalable parallel clustering approach for large data using modified Firefly algorithm” on	Juby Mathew, Vijayakumar,R,	IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Vol 16, Issue 6, Ver. I (Nov - Dec. 2014),PP14-24, DOI: 10.9790/0661-16611424
83.	Scalable Parallel Clustering Approach for Large Data using Possibilistic Fuzzy C-Means Algorithm	Juby Mathew, Vijayakumar,R,	International Journal of Computer Applications (IJCA)(0975 - 8887) Volume 103 - No.9, October 2014,PP 24-29. DOI: 10.5120/18103-9195
84.	A New Hybrid Scalable Parallel Clustering Approach For Large Data Using FCM And FA	Juby Mathew, Vijayakumar,R,	International Journal of Innovative Research in Computer and Communication Engineering, (IJIRCCE) e-ISSN: 2320-9801,p-ISSN: 2320-9798, Vol.2, Special Issue 5, October 2014,PP 269-276.

85	Ontology Based Data Integration of NoSQL Datastores	Kiran V K, Dr.R.Vijayakumar	9th International Conference on Industrial and Information Systems (ICIIS), December 2014, IEEE Explore , DOI: 10.1109/ICIINFS.2014.7036545 Page(s): 1 - 6
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Ms. Bindu V.R.

86. Organized an 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 the various institutions under M G University on 27th August 2014, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay was the resource person.
87. Organized and attended a 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.
88. Organized and attended the National E-seminar “Steps2Research” at School of Computer Sciences during 19-20 September 2014.
89. Organized a seminar at School of Computer Sciences by Dr Madhu S Nair, Asst.Professor, Dept. of Computer Science, University of Kerala, on “Research Topics for M Tech Dissertation” on 18.09.2014.
90. Organized and 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.
91. Attended an International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
92. Attended the Second International Conference on **IN**formation Systems **D**esign and **I**ntelligent **A**pplications – 2015(INDIA 015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management , University of Kalyani, West Bengal, India.

93. Organized a workshop on 'Training A-view System' for the faculty members and technical staff of the School on 23rd February 2015. A-view is an interactive e-learning Tool developed by Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India.
94. Participated in the 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.
95. Attended a workshop on 'NAAC Accreditation' organized by the University on 19th March 2015.
96. Presented a research paper titled "Boolean Operations on Free Form Shapes in a Level Set Framework" at the International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
97. Presented a research paper titled "[Volume Cutting of Medical Data Using Deformable Surfaces Modeled with Level Sets](#)" 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.

Ms. K.P. Pushpalatha

98. Attended a 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.
99. Attended an awareness workshop on Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India) organized by the University 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, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay was the resource person.
100. Co-ordinate and attended the National E-seminar "Steps2Research" at School of Computer Sciences during 19-20 September 2014.

101. 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.
102. Attended a workshop on ‘Training A-view System’ on 23rd February 2015 organized by the School. A-view is an interactive e-learning Tool developed by Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Government of India.

Ms. Anuj Mohamed

103. Attended a 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.
104. Attended an awareness workshop on Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India) organized by the University 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, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay was the resource person.
105. Attended the National E-seminar “Steps2Research” at School of Computer Sciences during 19-20 September 2014.
106. 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.
107. Attended an International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
108. Attended the Second International Conference on **IN**formation Systems **D**esign and **I**ntelligent **A**pplications – 2015(INDIA 015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management , University of Kalyani, West Bengal, India.
109. Attended a workshop on ‘Training A-view System’ on 23rd February 2015 organized by the School. A-view is an interactive

e-learning Tool developed by Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India.

110. Attended a workshop on 'NAAC Accreditation' organized by the University on 19th March 2015.
111. Presented a research paper titled "*Enhancing HMM Based Malayalam Continuous Speech Recognizer using Artificial Neural Networks*" at the International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
112. Presented a research paper titled "*Connectionist Approach for Emission Probability Estimation in Malayalam Continuous Speech Recognition*" at the Second International Conference on **IN**formation Systems **D**esign and **I**ntelligent **A**pplications – 2015(INDIA 2015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management, University of Kalyani, West Bengal, India.

SCHOOL OF ENVIRONMENTAL SCIENCE

Dr. C.T. Arvindakumar

113. International Conference on Advances in Applied Sciences and Environmental Technology, ASET, 21-22 Feb.2015, Bangkok, Thailand
114. International Conference on Water: From Pollution to Purification, Jan. 23 – 26, 2015, Kottayam, Kerala
115. International Conference on Advanced Oxidation Processes, Sept.25-28, 2014, Munnar, Kerala
116. National Symposium on Environment (NSE – 19), Dec 11- 13, 2014, Kottayam
117. International Conference on Advances in Environmental and Bio-Technology – (AEBT- 2014) , 04-05 January, 2015, Bangkok, Thailand

Dr. E.V.Ramasamy

118. State Seminar on Environmental Management. 24-26 July 2014. Organised by B.C.M. College for women, Kottayam, Kerala. (Participated as a **Resource Person**, delivered **invited talk** on 'Waste Management : lessons from the past and future Trend).
119. Kerala Environment Congress, 22-23 August 2014. Organised by Centre for Environment and Development, Ernakulam.

120. UGC Sponsored National Seminar on Food, Environmental & Medical Toxicology, organized by PG Department of Zoology, The Cochin College, Kochi , September 29 , Participated as a **Resource Person** and delivered an Invited Talk on Heavy Metal Pollution and Bioremediation.
121. LAKE 2014: Conference on Conservation and Sustainable Management of Wetland Ecosystems in Western Ghats, 13 -15 November 2014, Sirsi, Karnataka. (Presented paper and Chaired technical sessions)
122. UGC sponsored Refresher Course in Biotechnology, Microbial Biotechnology & Bioinformatics (Interdisciplinary) UGC- ASC Bharathiar University, Coimbatore as **Resource Person** and delivered two invited Talks on Anaerobic Technologies and on Environmental Degradation issues on November 21, 2014.
123. Participated in Kerala Environment Congress 22-23 August 2014. Organised by Centre for Environment & Development (CED), Ernakulum, Kerala
124. Organised 'National Symposium on Environment (NSE - 19), Dec 11- 13, 2014, at School of Environmental Sciences, M.G.University, Kottayam (**Convener**) in collaboration with BARC, Mumbai
125. Served as Resource Person in the UGC sponsored Refresher Course in Environmental Studies (Interdisciplinary) UGC- ASC University of Calicut, delivered two invited Talk on Waste management on January 21, 2015.
126. Participated and Chaired technical session in International conference on 'Water from pollution to purification' Organised by Centre for Environment Education and Technology (CEET), Kottayam, January 23-26, 2015, School of Environmental Sciences, M.G.University, Kottayam

Dr. Mahesh Mohan

127. LAKE 2014: Conference on Conservation and Sustainable Management of Wetland Ecosystems in Western Ghats, 13 - 15 November 2014, Sirsi, Karnataka. (Presented paper and Chaired technical sessions)
128. 'National Symposium on Environment (NSE - 19), Dec 11- 13, 2014, at School of Environmental Sciences, M.G.University, Kottayam (Convener) in collaboration with BARC, Mumbai
129. International conference on Water from pollution to purification.

Organised by Centre for Environment Education and Technology (CEET),Kottayam,January 23-26, 2015, School of Environmental Sciences, M.G.University,Kottayam

Dr. Syllas V.P.

130. Organizing Committee member: National Symposium on Environment (NSE – 19), Dec 11- 13, 2014 at School of Environmental Sciences, M.G. University, Kottayam in collaboration with BARC, Mumbai
131. Participated in the International conference on Water from pollution to purification. Organised by Centre for Environment Education and Technology (CEET),Kottayam, January 23-26, 2015, School of Environmental Sciences, M.G.University, Kottayam

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT STUDIES

Dr. M S John

132. M S John delivered a key note at the two day UGC Sponsored National Seminar on Religious Harmony in Kerala with special reference to Gandhian Thought held on 12th and 13th August 2014 and organized by department of History, K E College, Mannanam.
133. M S John delivered a lecture on Hind Swaraj at Gandhi Smrithi and Darsan Samithi, Rajghat, New Delhi, on 17 December 2014.
134. M S John delivered lectures for the students of International Diploma Course on Nonviolence and Conflict Resolution organized by Gujarat Vidyapith, Ahmedabad (2014 batch)
135. M S John delivered key note address at the national seminar on Politics of Participatory Development and Inclusive Growth: Role of the Marginalised Sections in India, 16 – 17 October 2014, organized by the PG department of political science, NSS Hindu College Changanacherry,

Dr. Mahajan P Mani

136. Mahajan P Mani Delivered an orientation lecture on “Quality Assurance in Higher Education” – St.Peter’s College, Kolenchery on 27 March 2014.

Dr Harilakshmeendra Kumar

Manjusha K A

137. Dr Harilakshmeendra Kumar Participated and presented a paper in national (ICSSR) Seminar on Aging Gracefully organized at the School of Gandhian Thought and Development Studies on 24 & 25 November 2014
138. Dr Harilakshmeendra Kumar Participated and presented a paper on Gandhi and Higher education in a National Seminar conducted by Kerala Gandhi Smaraka Nidhi, Trivandrum, in December 2014
139. Attended a Two Days National Seminar on “Understanding the Indigenous Knowledge Systems of the Tribals of Kerala: A Historical Enquiry” sponsored by the Directorate of Collegiate Education, Government of Kerala and Organised by the Department of History, Govt College, Thripunithura, on 19th and 20th November, 2014.
140. Attended an ICSSR Sponsored Two Day National Seminar on “Ageing Gracefully: A Multi Disciplinary Perspective” held on 24th and 25th November, 2014 organised by the School of Gandhian Thought and Development Studies, M.G.University, Kottayam.
141. Attended the 19th Annual Conference and International Seminar hosted by the Department of History, Psychology and Sociology at Sree Sankaracharya University of Sanskrit, Kalady, Kerala, from 10-12, December, 2014.
142. Attended the 75th Session of the Indian History Congress, at the Academic Staff College, JNU, New Delhi from 28th to 30th December, 2014.
143. Presented a paper entitled as “Indigenous Knowledge Systems of the Ulladan Tribe of Kerala with Special Reference to their Traditional Occupational Patterns and Food Culture” in a Two Days National Seminar on “Understanding the Indigenous Knowledge Systems of the Tribals of Kerala: A Historical Enquiry” sponsored by the Directorate of Collegiate Education, Government of Kerala and Organised by the Department of History, Govt College, Thripunithura, on 19th and 20th November, 2014.
144. Presented a paper entitled as “The Land Question of the Tribals and Dalits in Kerala: A Study on the “Farming Protest” by the Adivasi Dalit Munnetta Samithi in Arippa, Kollam District” in the 19th Annual Conference and International Seminar hosted by the Department of History, Psychology and Sociology at Sree Sankaracharya University of Sanskrit, Kalady, Kerala, from 10-12, December, 2014..
145. Presented a paper entitled as “The Silent Valley Movement in Kerala: A Study on the role of Mediums with Special Reference to the Contributions of Kerala Sasthra Sahithya Parishad” in the 75th Session of the Indian History Congress, at the Academic Staff College, JNU, New Delhi from 28th to 30th December, 2014.
146. Attended a Workshop on Research Methodology at TISS, Mumbai from 7-4-2014 to 11-4-2014

Dr Sandhya R.S

147. Presented a paper in a National Conference titled “ Elected Dalit Women Presented a paper on “Understanding Elderly People in an Old Age Home” in the ICSSR sponsored National Seminar on Ageing Gracefully: A Multi-Disciplinary Perspective organized by SGTDS, M.G University, Kottayam (November, 2014)
148. Presented a paper titled “Portrayal of Women in Media” in the National Seminar on Culture, Media and Society Organised by the Kerala Sociological Society (December, 2014)
149. Presented a paper titled “Changing Dimensions of Crime Against Women” in the UGC sponsored National Seminar on “Crime Against Women: A growing menace to the Society” conducted by BCM College, Kottayam. (January, 2015)
150. Representatives in Panchayat Raj Institutions: A Sociological Analysis” conducted by Kerala Sociological Society at Loyola College of Social Sciences, Trivandrum (December, 2015)
151. Chaired a session on “Civil Society, Empowerment and Kudumbasree” organized by Kerala Sociological Society at Loyola College of Social Sciences (December, 2015)

Dr. Roy C Mathew

152. Attended the national Seminar on “Statistical Analysis and Interpretation of Data using Statistical package for social sciences (SPSS) and Analysis of Moments Structure(AMOS) in Social Science Research Organized by Post Graduate Department of Commerce Government College, Kottayam on 9th and 10th of March, 2015.
153. “Importance of Women Entrepreneurship form Socio Economic Development” Pauline Journal of Research and Studies: A Multi Disciplinary Bi Annual Journal ISSN 2347 – 3843 special
154. Presented a paper on ‘Importance of Women entrepreneurship for Socio-Economic Development “presented at the UGC sponsored National Seminar on 3rd January 2015 at St.Pauls College, Kalamassery.
155. Presented a paper entitled Woes and Difficulties of Elderly in the National Seminar on “Ageing Gracefully: A Multi Disciplinary perspective” organized by the school of Gandhian Thought & Development Studies on 25th November 2014.

SCHOOL OF INDIAN LEGAL THOUGHT

Dr. George Joseph

156. Participated in the International Conference of Jurists and Writers at London on June 23 & 24 2014

Dr.MC Pramodan (Asso. Professor, SILT)

157. Human Rights Issues in Criminal Justice Administration	January 2014	School of Legal Studies, Kannur University
158. Health Law and Policy New Dilemmas New Perspective	April 2014	Department of Law, University of Kerala
159. Socio Economic Rights: Challenges for Its Realisation	March 2014	School of Legal Studies, C U S A T
160. National Workshop on Right to Emergency Care	August 2014	Centre for Health Law and Policy, NUALS, Kochi
161. Inroads into Freedom of Speech and Expression: A Study on Regulatory Regime of Free Speech	January 2015	School of Legal Studies, CUSAT
162. Human Trafficking and Exploitation of Children: Human Rights Dimensions	January 2015	Department of Law, University of Kerala
163. Reforms in Legal Education	January 2015	NUALS, Kochi
164. Human Rights and Values in Education	March 2015	P G Department of Legal Studies and Research, AcharyaNagarjuna University, Guntur

Dr.Sheeba Pillai

165. Presented a paper titled 'Local Self Government institutions and their role in protecting and promoting the rights of the elderly' in the National Seminar on Ageing Gracefully:A Multidisciplinary perspective organised by School of Gandian Thought and Development Studies held on 24th, 25th Nov,2014

166. Presented a paper titled 'Reinventing the CEDAW- Need of the hour' at the UGC sponsored National Seminar on "Two Decades of

CEDAW: Challenges and Responses- National and International Perspectives on 8th and 9th August,2015 organised by Tamil Nadu Dr Ambedkar Law University, Chennai

167. Presented a paper titled "Accountability of the Governor: A Critical Dilemma under the Indian Federalism" at the School of Law, Christ University, National Conference on Constitutional Appointments: Vignettes and Vicissitudes ,January 13th-14th,2015
168. Presented a paper titled 'Women with Disabilities and Gender Discrimination' in the National Seminar on Disability management-Moving Beyond the Special needs' organised by GLC, Ernakulam from 20th-22nd march 2015

Dr. Rajeesh A P

169. Attended 3 day U.G.C. Sponsored Inter Disciplinary National Seminar on **Disaster Management and Law - An Overview**, organized by Government Law College Ernakulam on 3rd to 5th December 2014.
170. Attended the 3 day National Seminar on **Crimes by and against the Migrants - Rethinking the Paradigms of Protection**, organized by Government Law College Ernakulam from 13th February to 15st March 2015.
171. Participated in the 3 day International Conference Gandhi Gram Swaraj and Democratic Decentralisation, organized by Kerala Institute of Local Administration (KILA), Mulamkunnathukavu, Trissur, on 27th to 29th November 2014.
172. Participated in the 3 day International Conference on Local Governments and Rights based Developments organized by LSGD Govt. of Kerala, from 15th ay 2015 to 17th May 2015 at Kovalam, Thiruvananthapuram.
173. Participated in the 2 day National Conference on Constitutional Appointmens: Vignettes And Vicissitudes, 2015, organized by Christ University, Bengaluru, India, from 13th to 14th January 2015 at to 17th at Bengaluru

Dr. Jasmine Alex

174. National Seminar on Ageing Gracefully: A Multidisciplinary perspective sponsored by ICSSR, New Delhi and School of Gandhian Thought and Development Studies held on 24th&25th Nov,2014
175. UGC sponsored National Seminar on Disaster Management and Law- An Overview' organised by GLC, Ernakulam during 3- 5 ,Dec,2014

176. UGC sponsored National Seminar on Criminal Justice, Sentencing and Public Policy organised by GLC, Thiruvananthapuram during 26-28 Feb 2015
177. UGC sponsored National Seminar on Farmers' Rights in the Globalised Economy: Perspectives and Trends, organised by School of Indian Legal Thought during 27th -28th March 2013
178. International Seminar on Human Rights: National and International Perspectives organised by NUALS, Kochi during 19-21 March 2015

Dr. Gigi P V

179. Presented a paper titled 'Role of Government to protect rights of disabled elderly person in India' in the National Seminar organized by Center for Criminal Laws, Government Law College, Ernakulam on March 2015.
180. Presented a paper titled 'Protection of Rights of Farmers and Agricultural Price Policy in India' in the National Seminar organized by School of Indian Legal Thought, M.G University, and Kottayam on March 2015
181. Presented a paper titled 'Trial by Media Positive Perspective' in the National Seminar organized by Government Law College, Ernakulam on February 2014.
182. Presented a paper titled 'Right to health care of poor elderly people- International and National perspective in the Seminar organized by School of Gandhian Thought, M.G University, Kottayam

Sri. Sunil Kumar Cyriac

183. Attended International Conference on Gandhi Gram Swaraj and Democratic Decentralisation, conducted by Kerala Institute of Local Administration (KILA) from 27th to 27th November 2014 and presented a paper titled Gram Swaraj and Gandhian way of Enforcement of Punishment.
184. Attended UGC sponsored Inter Disciplinary National seminar on 'Disaster Management and Law – An Overview', conducted by His Highness The Maharaja's Government Law College, Ernakulam, from 3rd to 5th December 2014 and presented a paper titled Disaster – A Criminogenic condition.
185. Attended National seminar on 'Disability Management – Moving Beyond The Special Needs, conducted by His Highness The Maharaja's Government Law College, Ernakulam, from 20th to 22nd December 2014 and presented a paper titled Differently Abled and Criminal Justice System.

186. Participated in the UGC sponsored National seminar on Human Rights of Differently-abled conducted by Government Law College, Kozhikode from 20th to 22nd February 2015, as a resource person and presented a paper titled 'The differently abled and the protection by the criminal law: How many miles to go?'
187. Attended National seminar on 'Crimes by and Against The Migrants – Rethinking The Paradigms of Protection, conducted by His Highness The Maharaja's Government Law College, Ernakulam, from 13th to 15th March 2015 and presented a paper titled 'Inventions and Discoveries in The Commission of Crimes: The Impact of Migration'.

SCHOOL OF INTERNATIONAL RELATION & POLITICS: NIL

SCHOOL OF LETTERS

Dr.P.S. Radhakrishnan

188. "Cinema yile pravanathakal: parisaravum sadhyathayum – September 30 – Malayalam Dept –D.B College, Thalayolaparambu.
189. Attended and presented a paper on the seminar " Indian Cinema yile pennidangal"/09.10.2015/UGC National sEminar/St.Joseph's College, Moolamattam.
190. Attended and presented the paper " Janapriyatha Janapriya Cinema yil" UGC National Seminar at Baby John Memorial Govt.college, Chavara on 14.01.2015
191. "Vayanadina Vaaracharanam 2014/Kerala Govt Dist wise Inauguration/2014 June 19, 10 a.m - Delivered lead lecture on 'Art of Reading'.
192. Attended and present the paper "Bhashantharangalil Sooshma Raashtreeyam Cinemayil" in UGC National Seminar organized by the Malayalam Department, CMS College Kottayam on 23rd January 2014.

Dr. Harikumar S

193. Seminar on Language and culture organized by St.Thomas College, Kozhencherry on 22nd September 2014
194. N V Krishna Warriar Memorial Lecture at N V Smaraka Trust, Kottakkal, Malappuram on 26th October 2014
195. Presented a paper on Culture and Language in the National Seminar "Writing, Reading and Culture" organized by Govt.College, Kalpetta on 14th November 2014.

196. Presented a paper on Re-reading Nalacharitham in the National Seminar “Re-reading of Ancient Literature” organized by Govt.College Kattappana on 2nd December 2014.
197. Organized a Nature Sensatization camp at Pampadumchola National Park, Idukki on 24-26 January 2015. (As Director of Student Services, Mahatma Gandhi University)
198. Organized a Media Camp at Deva Matha College, Kuravilangad on January 30-February 1, 2015. (As Director of Student Services, Mahatma Gandhi University)
199. Organized a Cash Award Distribution Ceremony for Youth Festival Winners at St.Teresa’s College, Ernakulam on 29th March 2015. (As Cultural Co-Ordinator of Mahatma Gandhi University)

Dr. K M Krishnan

200. Participated in Seminar on Publishing School of Letters and NBT, 12 January 2015.
201. Gave a plenary lecture on “Resistance of Forms: Forms of Resistance” at Sree Vyasa N S S College, Vadakkancherry 5 February 2015.

Dr. Jose K. Manuel

202. Presented the paper titled ‘**Language and Culture as variables in Education**’ in the International Seminar “ Bridging the gaps: Education, Language and Culture” Conducted by University of Kerala-School of Distance Education & Canterbury Christ Church University – faculty of Education from 22-23 January.
203. Presented the paper titled “Visual Narrative in New Media” in the UGC sponsored National seminar ‘ The popularity and credibility of New Media’ Conducted by Department of Malayalam & Mass Communication, St.Xavier’s College, Thumba on : October 9,10 2014
204. Presented the paper titled “ Impact of Bible upon Malayalam Literature “ in the National Seminar on ‘ Bible and Literature’ Conducted by ‘ Sahitheerakhyam’ on 8th March 2014
205. Presented the paper titled “New Generation Cinema” in the ‘UGC sponsored National Seminar ‘Relevance of Cultural Studies in Postmodern condition’ Conducted by the Department of Malayalam, H.H.M.S.P.B.N.S.S College for Women, Trivandrum on 15-16th October 2014.

206. Presented the paper titled “New Generation Cinema: Concept and Ideology” in the ‘UGC sponsored National Seminar : ‘ Re-reading New Generation Cinema: The presentation of the Female Protagonist in New Generation Cinema’ Conducted by the Department of English, Govt.College, Kattappana, on 28-30 October 2014
207. Presented the paper titled ‘New Generation Cinema: Concept and Ideology’ in the Sahitya Academy – Seminar Navaratna Smarananjali dated 2014 November 18.
208. Presented the paper titled Research Methodology in Media – Related Studies in the UGC sponsored National seminar: Research Methodology in Language and Literature conducted by Post Graduate Research Department of Malayalam, Catholicate College, Pathanamthitta Dated 6, 7, 8 January 2015.
209. Presented the paper titled “Narrative Techniques of New Generation Cinema in Malayalam” in the UGC Sponsored National Seminar Cinema – Narration and Appreciation conducted by the Department of Malayalam – St.John’s College, Anchal from January 13-14 2015
210. Presented the paper titled “ New Media and Culture “ in the National Seminar on ‘ Nava Samskriti’ conducted by Sahithee Sakhyam on 24th January 2015
211. Presented the paper titled “ New Media and Malayalam Literature” in the Kerala Sahitya Academy – Seminar on ‘ Aksharaperuma ‘ dated 10.02.2015
212. Presented the paper titled Politics of Creation: Literary Historiography in the National Seminar on “ Literary Historiography “ conducted by Dept. of Malayalam, University of Kerala from 21-23 April 2015
213. “Culture and Cultural Identity in conceptualizing Diaspora” (National seminar on Diasporic Reflections, conducted by the Dept. of English, SNGS College, Pattambi on 29-30 October 2015)

Dr.Saji Mathew

214. "Power, Gender and Myth: A case for perspectives in Cultural Studies" (National seminar on Responses to a changing world: English Language, Literature and cultural studies in the 21st Century on 12-13 February 2015, MMNSS College, Kottayam)
215. "Bunyan in the Colony: A critique of Agency and Manipulation in Hermann Gundert's 'Pilgrim's Progress' in Malayalam (National Seminar on Reading Texts in the 21st century on 24 March 2014 at the Dept. of English, University College, Thiruvananthapuram.
216. "Gundert and colonial Translation" (National seminar on the postmodern pedagogy of multiple literacies organized by the Dept. of English, Newman College, Thodupuzha, 11-12 August 2015)
217. The Cultural scope of Globalization: A Postcolonial Revisit" (National seminar on when the Empire Writes Back, Depts. Of Malayalam, English and Hindi, Panampally College, Chalakudy, 18-20 November 2015.
218. "Gender and Cultural Studies" (National Seminar on Culture and Gender PG Dept. of English, Baselius College, Kottayam, 17-18 December 2014)
219. "New Historicism" (National seminar on Contemporary Literary Theories, Dept. of Malayalam, Deva Matha College, Kuravilangad, 7-8 January 2014.
220. "The concept of World Literature: Possibilities and Scope" (International Seminar on World Literature-Near and Apart, Dept. of Malayalam, University of Kerala, Thiruvananthapuram, 13-15 October 2015)
221. "The Supernatural as Political" (National seminar on Myths and Fairy Tales, dept. of English, TM Jacob Memorial Govt. College, Manimalakunnu, 26-27 November 2015)
222. "Of many Heroes, Heroines and Cityscapes: A Reading of Subversions and shifts in Contemporary Malayalam Cinema" (National Seminar on the Idea of India in the 21st Century:

DEPARTMENT OF LIFE-LONG LEARNING & EXTENSION

Dr.K.Sabukuttan

223. Presented an invited paper in the UGC sponsored National Seminar on “Sustainable Recourse management -Tools and techniques “. The title of the paper is “Environment Enrichment activities through National Service Scheme”.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.
224. Participated in the UGC sponsored National work shop on research methodology for academic Research from 3rd February to 7th February 2014 organized by the school of Gandhian Thought and Development studies.
225. Presented a paper titled “The Role of Kudumbasree Workers In the Process of Developing Self Employment Opportunities- A Case Study of Nalpathimala”. In the National seminar on flagship programmes in the Development experiences of independent INDIA on 31st October 2014 organized by the PG Dept of History, Govt College Nedumangad.
226. Presented a paper entitled “Impact of humanism in the New social movements of Kerala” on 19th march 2015 in the National seminar sponsored by the Govt of kerala at Govt College Nedumangad.
227. Presented a Paper on ‘Swami Vivekanda on education’ in the U.G.C sponsored. “Two day national seminar on Swami Vivekanada’s message of community service” for the youth of India On 29 August 2014 organized by Mar Athanasius College, Kothamangalam in collaboration with Vivekanada Chair Mahathma Gandhi University
228. Presented a paper on ‘ How communalism affected the modernization of Kerala’ in the U.G.C sponsored National seminar on “Reflection on communalism in India : past and present” organized by the P.G Department of History & Research centre Sree Narayana College Chempazhanthy on 22 August 2014.

SCHOOL OF MANAGEMENT & BUSINESS STUDIES

Dr.Siby Zacharias

229. Career Management in Changing Career Context’, Trends and Challenges in Indian Business Management, Jominy Joice & Siby Zacharias, **International Conference**, Placitum November 6 &7, 2014, SNGC, Kolenchery, Kerala.
(Best Paper award)
230. ‘A Study on the influence of mentoring on turnover intentions’, Siby Zacharias & Roshen Therese Sebastian, **International**

Conference, Placitum November 6 &7, 2014, SNGC, Kolenchery, Kerala

Dr. Johney Johnson

231. Sonia Katherin Mathew and Johney Johnson(2014), “An Empirical Study to Predict the Self-Employment Intention of Engineering Students Using EAO Model in Kerala, India” Conference conducted by Australian Academy of Business and Social Sciences (in partnership with The Journal of Developing Areas),(2014)held in Malayasia. ISBN 978-0-9925622-0-5.
232. Sonia Katherin Mathew and Johney Johnson (2014), “An empirical study on the Entrepreneurial Attitude Orientation of School students in state of Kerala” conference conducted by Mount Zion College of Engineering.
233. Sonia Katherin Mathew and Johney Johnson (2014), “A study on FDI in higher education sector in India” conference conducted by St. Peter’s College.
234. Tijo Thomas and Johney Johnson (2014) “Impact of Cause Related Marketing in Lottery Business: a Study on Karunya Lottery in Kottayam District ” Proceedings of 2014 Annual Conference of Emerging Markets Conference Board , ISBN NO:978-81-928560-0-1
235. Tijo Thomas and Johney Johnson (2014) “Impact of Celebrity Credibility on Consumer Intention for Behavioral Change: A Study on Celebrity Endorsed Social Advertising” e-proceedings of Third International Marketing Conference 2014, IIM Calcutta
236. Ushus Mathew and Dr. Johney Johnson, (2014), “Foreign Direct investment in Indian Healthcare Industry”, pp 113-117. (conference conducted by St. Peters college, foreign Direct Investment in India – Opportunities and Challenges)ISBN 978-93-5156-043-2
237. C V Lolitha and Johney Johnson (2014) “Employee Engagement: Emerging Concept for Attrition Management”, Proceedings of 3rd International Conference on Managing Human Resources at the Workplace , ISBN 978-93-83302-01-7

Dr. Celine Pereira

238. Participated in the **State Seminar Cum Workshop** on “Managing School Education in Kerala” on May 6, 2014 held in SIEMAT Kerala
239. Participated in the **State Workshop** on “Adolescence Education and Life Skills” on 29 Aug 2014 in School of Pedagogical Sciences, Mahatma Gandhi University.
240. Participated in the **National Workshop** on “Research Trend, Design and Reporting” on 19-20 Dec. 2014 in Ruban College of Education, TN.
241. Participated in the **National Conference** on “Trends and Innovations in Gandhian Thought” on 12-13 Dec. 2014 held in Gandhi Smarak Nidhi, Trivandrum.
242. Participated and presented a paper in **the International Seminar** on “Redefining Educational Practices integrating Indian Epistemology and Modern Cognitive Neurosciences” held on 7-9 Jan. 2015 in NVKSD College of Education, Attoor. Paper: “Effectiveness of Value Discussion Model on the Affective Domain, Competencies of Adolescence”.
243. Participated in the **National Workshop** on “Research Methodology in Social Sciences” organized by Post Graduate Department of History on 25-27 Feb. 2015 held in Catholicate College pathanamthitta.
244. Participated in the **National Workshop** on Research Trend, Design and Reporting on 19-20 Dec. 2014 in Ruban College of Education, TN.

Dr. Jaya Jaise

Sl. No.	Programme	Duration	Organized by
197.	UGC Sponsored National Workshop on E-Content Development for Teacher Educators	10 th to 14 th October 2014	IQAC, Government College of Teacher Education Thiruvananthapuram

Participated and papers Presented in International, National, State and University Level Conferences/Workshops/Seminars/Symposia

Sl.No.	Title of the Paper Presented	Title of Conference/	Organised by	Year	International/National/
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		Seminar			State/University Level
198	Empowering the student Community with Life Skill – The Vital Need of the Hour	Adolescence Health and Life Skills	State Council of Education, Research and Training (SCERT), & School of Pedagogical Sciences, Mahatma Gandhi University	3 rd to 5 th September 2014	NCERT sponsored Empowerment Programme
199	--	Adolescence Education and Life Skills	State Council of Education, Research and Training (SCERT), & School of Pedagogical Sciences, Mahatma Gandhi University	29 th August 2014	NCERT sponsored Orientation Workshop
200	--	Inclusive Education: An imperative for Learning to Live Together	Tiitus II Teachers College, Thiruvalla	9 th & 10 th October 2014	UGC Sponsored National Seminar
201	Call for Harnessing the E-breakthrough	E-Content Development for Teacher Educators	Government College of Teacher Education, Thiruvananthapuram	10 th to 14 th October 2014	UGC Sponsored National Workshop
202	Psychological Needs of the Ageing Indian	Ageing Gracefully: A Multi-Disciplinary Perspective	School of Gandhian Thought and Development Studies, Mahatma Gandhi University	24 th & 25 th November 2014	ICSSR Sponsored National Seminar
203	Conscientising Teachers to Use Gender-Neutral English Language	Prioritising Gender Equality to Ensure Quality Enhancement and Sustenance in Higher Education	Mount Carmel College of Teacher Education for Women, Kottayam	16 th & 17 th December 2014	UGC Sponsored National Seminar
204	Educational Implications of Cognitive Neuroscience	Redefining Educational Practices integrating Indian Epistemology and Modern cognitive Neurosciences	Council for Teacher Education (CTE), Kerala State Centre; NVKSD College of Education, Attoor, Tamil Nadu	7 th to 9 th January 2015	ICSSR Sponsored National Seminar

205	Critical Visual Literacy: A Neurolinguistic Approach to English language Teaching	Redefining Educational Practices integrating Indian Epistemology and Modern cognitive Neurosciences	Council for Teacher Education (CTE), Kerala State Centre; NVKSD College of Education, Attoor, Tamil Nadu	7 th to 9 th January 2015	ICSSR Sponsored National Seminar
206	Need for Fostering Peace Education in Schools	Education for Liberation: Contributions of Swami Vivekananda	St. Joseph's Training College, Mannanam	6 th & 7 th January 2015	UGC Sponsored National Seminar
207	--	Accelerating Communicative Excellence of Teacher Educands: An Action Guide	Titus II Teachers Collete Thiruvalla, pathanamthitta	20 th & 21 st February 2015	UGC Sponsored Two Day State Level Workshop
208	Multitasking Ability, Creativity and Aggressive Behaviour among Adolescents	Vision 2030: Contributions of Educational Researches on National Development	St. Thomas College of Teacher Education, pala	6 th & 7 th August 2015	UGC Sponsored National Seminar
209	Self Determined learning Model of Instruction: An Effective Means of Enhance Achievement in Social Science at Secondary School Level	Learner Driven Learning: Leveraging the Winds of Change	NSS Training College, pandalam	19 th & 20 th August 2015	UGC Sponsored National Seminar
210	Professional portfolios: A Thematic Documentation for Career Planning of Teacher Trainees	Standards and Benchmarks for Excellence in Learning, Teaching and Research	All India Association for Educational Research (AIAER); Department of Education, University of Kerala; Government College of Teacher Education	26 th to 28 th November 2015	International Conference

Dr. Minikutty A

211. Participated and presented a paper titled "Level of Awareness among Secondary School Teachers regarding Learning Disability" in the two days UGC Sponsored International Seminar on "Learning Disabilities and Inclusion" organized by Mount Carmel College of Teacher Association on 14th & 15th February 2014.
212. Participated and presented a paper titled "A Study on Computer Self Efficacy among Higher Secondary School Students" in the Inter National Seminar on "Institutional Interventions to bridge Competency Gulf in an e-world (IIBCGeW)" organized by NSS Training College, Pandalam and Council of Teacher Educators (CET) on 24th, 25th & 26th March 2014.
213. Participated in the one day Orientation Workshop on "Adolescent Education and Life Skills" organized by School of Pedagogical Sciences in collaboration with SECRT, Thiruvananthapuram with financial support of NCERT, New Delhi on 29th August 2014.
214. Participated and presented a paper titled "Developing a Multi media Instructional Package for Enhancing Achievement and Communication Skills in English among Secondary School Students" in the two days UGC Sponsored National Seminar on "Globalization and Teacher Education: Methodologies and Strategies" organized by School of Pedagogical Sciences, Kannur University on 1st & 4th September 2010
215. Participated in the three day Empowerment Programme on "Adolescent Health and Life Skills" organized by School of Pedagogical Sciences in collaboration with SECRT, Thiruvananthapuram with financial support of NCERT, New Delhi on 2nd, 3rd & 4th September 2014
216. Participated in the ICSSR Sponsored Inter National Seminar on "Redefining Educational Practices Integrating Indian Epistemology and Modern Cognitive Neurosciences" in connection with 13th Annual Convention of Council of Teacher Education (CTE) organized by N.V.K.S.D College of Education, Attoor, Tamil Nadu on 70-9 January 2015.

217. Participated and presented a paper titled “Effectiveness of Metacognitive Affective Model of Self Regulated Learning on Metacognitive awareness of Students at Higher Secondary Level” in the ICSSR Sponsored Inter National Seminar on “Redefining Practices Integrating Indian Epistemology and Modern Cognitive Neurosciences” in connection with 13th Annual Convention of Council of Teacher Education (CTE) organized by N .V.K.S.D College of Education, Attoor, Tamil Nadu on 70-9 January 2015.
218. Participated and presented a paper titled “Stress management Strategies in the Teacher Education Curriculum (B.Ed.) : Perception of Student Teachers” in the UGC Sponsored two-day National Seminar on “Proactive Stress Coping Strategies for Developing Mental Well Being” in collaboration with AKTCTA conducted at St. Joseph’s Training College, Masnnam on 9th & 10th January 2015.
219. Participated in the National Seminar on “Restructuring the B.Ed. and M.Ed. Programme in the context of New NCTE Regulations 2014” organized by Titus II Teachers College, Thiruvalla in collaboration with CTE, Dept. of Education, University of Kerala , AIAER, CCEAM, IQAC & UN-ASPIRE (Titus College) on 27/02/2015.
220. Participated in the UGC Sponsored two-day National Seminar on ‘‘Revamping Teacher Education for the Digital Age Learners-Challenges and Prospects’’ and presented a paper ‘‘Digital Competence in Practice: A Study among College Teachers in Kerala’’ Organized by Mount Carmel College of Teacher Education for Women, Kottayam on 17th & 18th September 2015
221. Participated in the three day International Conference on Standards and Benchmarks for Excellence in Learning, Teaching, and Research organized by Department of Education, University of Kerala and All India Association for Educational Research (ALAER) in collaboration with Govt. College of Teacher Education on 26th to 28th November 2015.

Dr. K.P. Suresh

222. Participated and presented a paper on Pedagogical Imperatives of ICT on Scholastic and Affective Outcomes in Digital Emotive Pedagogy St. Xaviers's College of Education, Palayamkottai, Tamilnadu, ISBN: 978-938-41920-2-0 (pp-296-304)
223. Participated and presented a paper on Research in Education: A paradigm Shift for Pedagogical consideration in Ramya Sathianathan College of Education, Thanjavur – ISBN: 978-93-82570-49-3.
224. Participated and presented a paper in Autonomy: Realization of Quality Higher Education Conferment of Autonomous status to Colleges in Keerala: Prospects and Challenges – Sri Sarada College of Education, Salem – ISBN: 978-938-172-4439.
225. Participated and presented a paper on Quality Parameters in Teacher Education – Government Brennen College of Teacher Education, Thalassery (under Press)
226. Participated and presented a paper on Re-Reading Quality in Teacher Education : The Need for an Alternative Pedagogy by name, Culturally Responsive Teaching – St. Mautitina College of Education, Chennai – ISBN: 978-81-928751-6-3.

Dr. Sajna Jaleel

INTERNATIONAL SEMINAR/CONFERENCES

227. Awareness of Social Networking Sites of Computer Science students at Higher Secondary Level (2015). Paper presented in International Conference on 'Accompanying Social Networking in Teacher Education', Organized by Loyola College of Education, Chennai, on 26th and 27th March 2015.
228. *Critically Thinking through Scientific Reasoning*. Paper presented in the International Seminar Organized by Vivekananda Association of Sciences and Humanities, Thiruvananthapuram on 26th April, 2014.
229. *Towards improving the quality of Education by Integrating ICT in Teacher Education*. Paper presented in the second International

Conference on 'Teacher Education Practices and Innovative Trends', Organized by School of Education, Pondicherry University, Puducherry from 20th to 22nd August, 2014.

NATIONAL SEMINAR/CONFERENCES

230. *A study on the Extent of Awareness about e-learning ethics among teacher educands at post graduate level.* Paper presented in the U.G.C. Sponsored two day National Seminar on 'Furnishing Learning Opportunities for Students in Using ICT in Education', Organized by Titus II Teachers College, Thiruvalla on 17th and 18th March 2015.
231. *Fruitful Living through the Practice of Life Skills.* paper presented in One-day Orientation Workshop on Adolescence Education and Life Skills on 29th August 2014, organised by the school of Pedagogical Sciences, Mahatma Gandhi University in collaboration with SCERT Kerala with financial support of NCERT, New Delhi.
232. *Gender Equity in Education:* Paper presented in the UGC Sponsored National Seminar on 'Prioritizing gender Equality to ensure quality enhancement and sustenance in higher education', Organized by Mount Carmel College of Teacher Education for Women, Kottayam on 16th and 17th December, 2014.
233. *Mixed Method Research: A new path for Research.* Paper presented in the UGC Sponsored National Seminar on 'Naturalistic Inquiry Paradigms in Education', Organized by SNM Training College, Moothakunnam on 16th and 17th December, 2014.
234. *Importance of Cyber Ethics in Secondary and Higher Secondary Education.* Paper presented in the UGC Sponsored National Seminar on 'Catching the Techno wave', Organized by NSS Training College, Pandalam on 30th and 31st December, 2014.
235. Attended empowerment programme on Adolescence health and life skills on 2,4 sep 2014 organized by M.G University and Scert at SPS,M.G University ,Kottayam

Dr. Jayasree P

236. INTERNATIONAL SEMINAR/CONFERENCES: ICT and Preservice Teacher education: towards an integrated approach organised by Department of Educational Technology, Bharadhidhasn University Thiruchirapally on April 23rd and 24th August 2014.

Dr.P. J. Jacob

National

237. Women empowerment through ICT-A need for Gender equity . UGC Sponsored National Seminar on Prioritising Gender equality to ensure quality enhancement and sustenance in higher education held at Mount Carmel College of Teacher Education for women. Kottayam on 16,17 Dec 2014
238. Attended National Seminar on Restructuring B. Ed and M. Ed Programme in the context of New NCTE regulations 2014 Held at TITUS II Teachers College, Thiruvalla on 27th Feb. 2015
239. Attended National orientation workshop on Teacher Education Regulations 2014 ,Norms and Standards and New curriculum Frameworks Held at Govt. College of Teacher Education Thiruvananthapuram on 27 and 28th April 2015
240. Attended Orientation workshop on Adolescence education and life skills on 29 August 2014 organised by SPS MG University, Kottayam and SCERT Kerala.
241. Attended empowerment programme on Adolescence health and life skills on 2,4 sep 2014 organized by M.G University and Scert at SPS,M.G University, Kottayam

Dr. T.V Thulasidharan

National

242. Participated in one day Orientation Workshop on Adolescence education and Life Skills. organized by School of Pedagogical Sciences in collaboration with SCERT, New Delhi on 29th August 2014
243. Attended empowerment programme on Adolescence health and life skills on 2,4 sep 2014 organized by M.G University and Scert at SPS,M.G University ,Kottayam

Dr. A.Sudharma

244. Participated in the workshop on 'Galore on Enduring Research Practices' in May 2015 in Buddha Collage of Education.
245. Participated in the Workshop on 'Integrating life skills with academic needs of 21st Century' - April 2015 - in Buddha College of Education.

SCHOOL OF PURE AND APPLIED PHYSICS

Dr C Sudarsanakumar

246. National seminar on advanced materials and characterization techniques 2015 March 27-28, University of Kerala.
247. National Symposium on X-ray diffraction and Recent Advances in Crystallography February 27 – 28, 2015, Periar University, Salem, Tamil Nadu.
248. UGC sponsored seminar “Material characterization tools and techniques “, CUSAT, March 19 - 21, 2015, Kerala
249. Workshop on Electron Microscopy – Theory, Applications and Sample preparation Techniques, CUSAT March 4-7, 2015, Kerala
250. National Science Day Celebration, Inaugural Lecture, Centre for Materials for Electronic Technology (CMET) Trichur, February 27, 2015, Kerala.
251. National Conference on Advances in Crystal Growth and Nanotechnology, CMS college, Kottayam, 15-16, January 2015.
252. Seminar on Impact of Crystallography on Modern Science, CUSAT, December 30, 2014.
253. Seminar on Impact of Crystallography on Modern Science, Govt. Arts and Science College, Kozhikode, December 6, 2014.
254. Refresher course, Academic staff college, University of Kerala, November 2014.
255. National Science Day Celebration, DIET, Kottayam, Feb 28, 2014.

Prof. K Indulekha

256. UGC Sponsored National Seminar “General Theory of Relativity” St Peter's College, Kolenchery 14 August
257. Workshop on Recent Developments in Cosmology 10 September Sacred Heart College Thevara Topic of Talk General Theory of Relativity
258. National Seminar on Astrophysics & Astrophotography Thunchan Memorial Govt College, Tirur 17th Nov Topic of Talk “Astrophysics”
259. One Day Meeting on Galaxies at IISc Bangalore Paper presented “Open Clusters -Some thoughts on them” 29 Dec 2014
260. M A College Kothamangalam 3 Dec 2014 Topic of Talk “General Theory of Relativity”
261. Topic of Talk Conference in Astronomy: Opportunities & Challenges Nirmala College Muvattupuzha Topic of Talk "Bound Stellar Systems" 9 Dec 2014
262. Conference on Gas Dust & Star Formation in Galaxies from Local to Far Universe, Crete, Greece Organized by University of Crete and European Space Organization 25 -29 May Topic of Talk “Variations in the IMF due to Local Variations in the CMF”
263. IIST Trivandrum TMT Science & Technology Meeting 11 -13 June Topic of Talk “TMT & TMT+”

264. Sunil Thomas, Sajna M.S., P.R. Biju, Cyriac Joseph, N.V. Unnikrishnan, "Optical Properties of Er³⁺ -Doped Li-Zn Fluoroborate Glass", *6th National Symposium for Materials Research Scholars - MR 14*, IIT Bombay (May 2014).
265. Sunil Thomas, N.V. Unnikrishnan, "Sm³⁺ -doped K-Mg-Al-Zn fluorophosphate glass: formation of Ag nanoparticles via Ag⁺/K⁺ ion exchange and their effects on spectroscopic properties", *Winter School-2014 on Frontiers in Material Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore* (December 2014).
266. PrathibhaVasudevan, Sajna M.S., Sunil Thomas, Rani George, Unnikrishnan N.V., "Energy transfer and white light emission of Tb³⁺:Eu³⁺-TiO₂/PVP hybrids", *National Laser Symposium NLS-23*, Sri Venkateswara University, Tirupati (December 2014).
267. PrathibhaVasudevan, Sunil Thomas, Sajna M.S., Cyriac Joseph, Biju P.R., Unnikrishnan N.V., "Fluorescence Enhancement and Energy Transfer Mechanism in PVP/TiO₂:Eu³⁺Nanocomposites", *IC-EEE 2015 -International Conference on Energy Harvesting, Storage and Conversion*, Cochin, Kerala (February 2015).
268. P Remya Mohan, E Sreeja, SubhashGopi, VijiVidyadharan, Cyriac Joseph & P R Biju, Synthesis and photoluminescence properties of LaNbO₄: Dy³⁺ phosphors, *National Laser Symposium (NLS-23)*, 3-6 Dec 2014, S V University, Tirupati, Andhra Pradesh, India.
269. SubashGopi, Sreeja E, Remya Mohan P, Cyriac Joseph, P R Biju, Optical Characterization and energy transfer in Tb³⁺-Eu³⁺ co-doped potassium Barium Zinc Fluoroborate Glass, *National Laser Symposium (NLS-23)*, 3-6 Dec 2014, S V University, Tirupati, Andhra Pradesh, India
270. SubashGopi, Praveena R, Remya Mohan P, SreejaE, Saritha K Jose, Cyriac Joseph, P R Biju, Luminescence characterization of Eu³⁺ ions doped alkali fluoroborate glasses, *ICOPMA-2015*, 27-28 Feb 2015, Sastra University, Thanjavur.
271. Sreeja E, Remya Mohan P, SubashGopi, Cyriac Joseph, N.V Unnikrishnan, P B Biju, *IC-EEE 2015*, 5-7 Feb 2015, structural luminescence properties of Eu³⁺ doped Ba₂CaWO₆ nanophosphor, *International conference on Energy Harvesting Storage and Conversion*, Department of Physics, Cochin University of Science and Technology.
272. Saritha K Jose, SubashGopi, Sreeja E, Remya Mohan P, N.V Unnikrishnan, P.R Biju, Luminescence and Energy transfer of Sm³⁺ doped polymer zirconia composites, *M R-15*, 21-22 May 2015, IIT Bombay.
273. Remya Mohan P, Sreeja E, SubashGopi, Saritha K Jose, VijiVidyadharan, P R Biju, White light emission from LaNbO₄: Dy³⁺

phosphor synthesized by sol-gel route, M R-15, 21-22 May 2015, IIT Bombay.

274. SubashGopi, Saritha K Jose, Sreeja E, Remya Mohan P, Cyriac Joseph, P R Biju, Optical Characterization of Eu^{3+} doped alkali fluoroborate glasses, M R-15, 21-22 May 2015, IIT Bombay.
275. Sreeja E, Remya Mohan P, SubashGopi, Saritha K Jose, P R Biju, Synthesis and luminescence properties of Eu^{3+} doped Ba_2CaWO_6 phosphor, M R-15, 21-22 May 2015, IIT Bombay.

Dr. Nandakumar Kalarikkal

276. Invited talk on the topic “Metal oxide Nanoparticles for Tailored Applications”, in the National Seminar on Perspective in Material Science- POLYMACS 14, organized by KSCSTE and department of Polymer Chemistry, Marthoma college of Science and Technology, Ayur, November-7, 2014
277. Invited talk in Bioradiance 14, conducted by Pushpagiri Centre for Virology, Pushpagiri Institute of Medical Sciences and Research Centre, Tiruvalla, May 3rd, 2014
278. Invited Lecture during the Faculty development programme on Nanoscale science and Technology, organized by School of Nanoscale science and Technology, NIT, Calicut, 30th June, 2014.
279. Invited lecture in “International Conference on Energy Harvesting, Storage and Conversion (ICEEE 2015)” organized by Cochin University of Science and Technology, Cochin. February 5-7, 2015.
280. Biomedicine 2014, National seminar organized by Pushpagiri Research centre, Tiruvalla, Kerala, May 3rd, (2014).
281. International Conference on membranes, organized by the Centre for Environment Education and Technology(CEET), Advanced Centre of Environmental studies and sustainable Devvelopment(ACESSD), Mahatma Gandhi University, Kottayam.
282. Electric magnetic and magnetoelectric coupling studies in BiFeO_3 - NaNbO_3 nano composites Rehana P Ummer, **NandakumarKalarikkal** International Conference on Energy harvesting storage and conversion (ICEEE 2015), Cochin university of Science and technology, February 4-7 (2014)
283. Enhanced dielectric and magnetoelectric coupling in BiFeO_3 - NaNbO_3 -PVDF-TrFE films Rehana P Ummer, Raneesh B, Laurent Badie, Didier Rouxel, Sabu Thomas and **NandakumarKalarikkal** 15th National Symposium on Material Science , IIT Bombay, Mumbai May 18-24 (2015)

Dr. Antony S

284. Two Stream Instability as a Source of Solar Coronal Heating, **S Antony**, Blesson Jose, 7th International Conference on", The Frontiers of Plasma Physics and Technology", Kochi, April 13-17, **2015**.
- 285.** Effect of Kinetic Pressure in Rayleigh Taylor Instability in Coronal Plasmas. Presented in 30th Astronomical Society Meeting, 19-22, February **2013**, IISER, Thiruvananthapuram Blesson Jose, **Antony S.**
286. The Effect of Varying Magnetic Field on Rayleigh Taylor Instability for Hot Plasma over Solar Atmosphere, Proceedings of National Seminar on Advances in Space Science and Space Missions, **2015**, Blesson Jose, **Antony Soosaleon***.
287. Stability Analysis of Extraordinary Waves over Solar Atmosphere in the Perpendicular Propagation, Proceedings of National Seminar on Advances in Space Science and Space Missions, **2015**, Blesson Jose, **Antony S.***
288. The Effect of Varying Magnetic Field on Rayleigh Taylor Instability for Hot Plasma over Solar Atmosphere, Proceedings of National Seminar on Advances in Space Science and Space Missions, **2015**, Blesson Jose, **Antony Soosaleon***.
289. Stability Analysis of Extraordinary Waves over Solar Atmosphere in the Perpendicular Propagation, Proceedings of National Seminar on Advances in Space Science and Space Missions, **2015**, Blesson Jose, **Antony S.***.
290. Solitary waves in a Five component Dusty Plasma with Kappa described Electrons and Ions, *IJSR*, Vol.3, Issue 8, **2014** Sijo Sebastian, Sreekala G., Manesh Michael, Noble P. Abraham, **S. Antony**, G Renuka, Chandu Venugopal

SCHOOL OF SOCIAL SCIENCE

Dr. K T Rammohan

291. Lecture. 'The Making of Economics as a Discipline in India'. *Refresher Course in Humanities*. Kannur University: Academic Staff College. June 21, 2014
292. Discussant. Methodological Workshop on *Emerging Issues in India's Plantation Sector*. National Research Programme on Plantation Development. Thiruvananthapuram: Centre for Development Studies. March 31-April 1, 2014

293. Paper 'The Making of Economics as a Discipline in India' presented at the seminar on *Exploring Historiographical Traditions in India*. Department of History, University of Silchar, Assam. February 5-6, 2015.

Dr. S Raju

294. 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

295. 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.

296. Presented a paper on 'Research Methodology' 19-12-2014 at the Department History Conducted by Research Scholars Association, Sreeshankara University, Kalady.

297. Attended National Workshop on: Tribes in Transition: A Critical Enquiry, Sponsored by UGC, Attended, 2015, 23rd to 27th of March. Organised by School of Gandhian Thought and Development Studies, M.G. University.

298. Attended National Workshop on: Tribes in Transition: A Critical Enquiry, Sponsored by UGC, Attended, 2015, 23rd to 27th of March. Organised by School of Gandhian Thought and Development Studies, M.G. University.

299. 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

300. 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.

301. Presented a paper on 'Research Methodology' 19-12-2014 at the Department History Conducted by Research Scholars Association, Sreeshankara University, Kalady.

302. Attended Seminars 'Archaeological Studies in Kerala: Problems and Prospectus' Seminar jointly conducted by Department of Archaeology and CMS College at CMS College on 16th December 2015

Dr. P. Sanal Mohan

303. "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

304. 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
305. Discussant for the Panel on Vernacular Archives and Possibilities for the Study of Caste, Institute of Economic Growth, Delhi, February 26, 2014
306. 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
307. 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)
308. Workshop at SSRC, New York: Paper presented titled 'Prayers as life affirming practices: Dalit Christianity in Kerala'.
309. **Paper presented titled 'Social and Religious Experience of Dalit Christians in Kerala: A Historical Analysis', Erfurt University, Germany, Panel: Friday, August 28**
310. Book Talk, 'Modernity of Slavery' at Max Planck Institute for the Study of Religious and Ethnic Diversity, Gottingen, Germany, October 09, 2015
311. **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**

Radhika P

312. Coordinated and attended a three day workshop on Development and Panchayath Programmes (SCP&TSP)
313. Coordinated a three day Workshop on Women and Social Justice: Jagratha Samitis
314. Coordinated and attended a one day workshop on Clean Kumili Green Kumili Documentation Project in Thekkady.
315. Conducted a one day Archaeological Exploration in Mankulam in Idukki Dt

SCHOOL OF TOURISM STUDIES

Dr. Robinet Jacob

316. "A Study of Medical Tourism Hospitals in Kerala", National Seminar, Bharat Matha College, Thrikkakara, Cochin, 5th February, 2015.

317. **“Cross Cultural linkages and Tourism”**, National seminar, G.A Pai memorial Govt. College, Manjeshwar, Kasargode, 29, 30 September, 2014.

Abin K.I

318. Ethical Practices in Thenmala Eco-Tourism Business (St Stephens College, Uzhavoor, 28-29 August-2014).
319. Novel Marketing Practices of Kerala Tourism through Internet (GovindaPai Memorial Government College, Manjeshwaram, Kasargod, 29-30 September – 2014.
320. Role and Importance of Travelogues in the promotion of emerging tourism destinations in Kerala (St Stephens College, Uzhavoor, 12th& 13th November-2014).
321. Infrastructure & Amenities available for the tourist in the railway station of tourism importance in Kerala (Amal college of Advanced studies, Nilambur 24 & 25th November 2014).

INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE & TECHNOLOGY

Prof. Sabu Thomas and Dr Nandakumar K.

322. Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014
323. Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014
324. First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014
325. Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014
326. Fourth International Conference on Natural Polymers (ICNP 2012) : 10-12 April 2015

INTER UNIVERSITY CENTRE FOR DISABILITY STUDIES (IUCDS)

Mrs. BILGY K.GEORGE

327. Workshop on Autism - IUCDS, Mahatma Gandhi University, Kottayam, 25-27th April 2014.
328. National Conference on “ Models of best practices in empowerment of persons with disabilities”-Inter University Centre for Disability Studies (IUCDS), Mahatma Gandhi University,

Kottayam and National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai- 16-17th October 2015.

Dr.Sunish T.V

329. Workshop on Autism - IUCDS, Mahatma Gandhi University, Kottayam, 25-27th April 2014.
330. Certificate course on Parenting of Exceptional Children Organized by Inter University Centre for Disability Studies, Mahatma Gandhi University, Kottayam, 17 -21st March 2014.
331. National Conference on “ Models of best practices in empowerment of persons with disabilities”-Inter University Centre for Disability Studies (IUCDS), Mahatma Gandhi University, Kottayam and National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai- 16-17th October 2015.

Mrs. HENA N.N

332. National conference of institute of person centered approaches in India.-Institute of person centered approaches in India, 15th November 2014.
333. National Conference on “ Models of best practices in empowerment of persons with disabilities”-Inter University Centre for Disability Studies (IUCDS), Mahatma Gandhi University, Kottayam and National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai- 16-17th October 2015.
334. Workshop on teaching children with autism to communicate through Picture Exchange Communication System.Inclusion central, Cochin , 11-12th December 2015.

INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE RESEARCH AND EXTENSION

INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES

Prof(Dr). I. Ibnusaud

335. ¹¹B NMR Spectroscopy Based Mechanistic Insight into Reduction Reactions of Hydroxyacid esters”Ibrahim Ibnusaud, BORON AMERICAS XIV (BORAM), Rutgers, The State University of New Joursey, NJ, US held on June 15th -19th2014.

336. Enantiopure synthesis of indolizinoindole alkaloid, (+)-Harmaline and (-)-Harmaline from (2S,3R)-Tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acid (Hibiscus acid) and (2S,3S)-Tetrahydro-3-hydroxy-2,3-furandicarboxylic acid (Garcinia acid), Sarath.M and I. Ibnusaad *, 10th Mid-Year CRSI Symposium in Chemistry, NIT-Trichy, Tamilnadu, July 23-25, 2015.
337. Enantiopure synthesis of biologically active nitrogen heterocycles from hydroxycitric acid, Tharique Ahammed Ansari, Mohammed Ajmal, Anumol S and I. Ibnusaad *, 10th Mid-Year CRSI Symposium in Chemistry, NIT-Trichy, Tamilnadu, July 23-25, 2015.
338. 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, Bakthan Singaram, I. Ibnusaad *, 10th Mid-Year CRSI Symposium in Chemistry, NIT-Trichy, Tamilnadu, July 23-25, 2015.
339. National seminar on "Recent Advances in Medicinal Plant Research", Sarath.M, Department of Chemistry, Bharata Mata College, Thrikkakara, Kerala, June 11th and 12th, 2015

CENTRE FOR ENGLISH LANGUAGE AND COMMUNICATION SKILLS: NIL

UNIVERSITY CENTRE FOR INTERNATIONAL CO-OPERATION: NIL

INSTITUTE OF CONTEMPORARY CHINESE STUDIES: NIL

K.N RAJ STUDY CENTRE FOR PLANNING AND CENTRE –STATE FINANCIAL RELATIONS

Prof (Dr.) K. M Seethi

ADVANCED MOLECULAR MATERIALS RESEARCH CENTRE

Prof(Dr.) Suresh Mathew

340. 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.
341. 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.

NATIONAL INSTITUTE OF PLANT SCIENCE TECHNOLOGY

DEPARTMENT OF PHARMACEUTICAL SCIENCES, THALAPPADY

P. SriGanesan

- 342. Attended 3rd international Conference on Drug Delivery at PSG College of Pharmacy, Coimbatore, Tamil Nadu on 28th Feb - 1st March 2014.
- 343. Evaluator in poster session of International conference on Drug Delivery 2014 organized by PSG College of Pharmacy, Coimbatore, Tamil Nadu.

Beena Thomas

- 344. Attended national colloquium on nuclear magnetic resonance spectroscopy and mass spectroscopy at Kottayam organized by SRIBS-KSCSTE (31st July-2nd Aug2015)

Dr.Sibi P.I

- 345. Chaired a scientific session in sanjose Spectra 2014, National seminar on Stem cells and neutraceutical Niche in pharmaceutical Sciences organized by St.Jospeph's College of pharmacy, Cherthala, Kerala on 20th February 2014.
- 346. Participated in the National Workshop on Intellectual Property Rights on 12th August 2014 organized by Dept. of Biochemistry, St. Thomas College, Palai.

Arun Raj R

- 347. Attended national colloquium on nuclear magnetic resonance spectroscopy and mass spectroscopy at Kottayam organized by SRIBS-KSCSTE (31st July-2nd Aug2015)

Paul Jacob

- 348. Attended national colloquium on nuclear magnetic resonance spectroscopy and mass spectroscopy at Kottayam organized by SRIBS-KSCSTE (31st July-2nd Aug2015)

INSTITUTE OF NURSING EDUCATION, GANDHINAGAR

Prof. Celine Thomas

349. Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015---state level
- Mariamamma P Vargheese
350. Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015---state level
351. SNA Biennial Conference, Renewal Centre, Kochi-National Level
- Tresamma Peter
352. Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015---state level
- Simmy M Varkey
353. Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015---state level
- Sreeja Mohan
354. Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015---state level
- Sapthami R S
355. Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015---state level
356. Training of trainers on Tuberculosis at Govt. College of Nursing, Thiruvananthapuram by Indian Nursing Council- National Level
- Lekshmi Priya P S
357. Training of trainers on Tuberculosis at Govt. College of Nursing, Thiruvananthapuram by Indian Nursing Council- National Level
- Junie Mary M
358. Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015---state level
- Divya S
359. Workshop on Basic New born care by NSSK&IAP on 26th and 27th June 2015---state level
- Neethu Joslin
360. Workshop on Basic New born care by NSSK&IAP on 26th and 27th June 2015---state level

INSTITUTE OF NURSING EDUCATION , PALA

Sl.No.	Name	Topic	Venue
361	Ms. Regi Thomas	Effective Clinical Supervision	INE, Gandhinagar
362	Ms. Ambili A	”	INE, Gandinagar
363	Ms. Manju P. Joseph	Effective Clinical Supervision Workshop on Biostatistics and SPSS	INE, Gandhinagar KE College , Mannanam
364	Ms. Suma C,	Workshop on Biostatistics and SPSS	KE College , Mannanam
365	Ms. Shazia Noorin Bin Syed Musthafa	Effective Clinical Supervision	INE, Gandhinagar
366	Ms. Siji George	International conference on current trends in public health and Hospital administration	DHM, SME, Gandhinagar
367	Ms. Neenu Jose	Effective Clinical Supervision International conference on current trends in public health and Hospital administration	INE, Gandhinagar DHM, SME, Gandhinagar
368	Ms. Sini James	Effective Clinical Supervision	INE, Gandhinagar
369	Ms. Preethy R. Kumar	Effective Clinical Supervision	INE, Gandhinagar
370	Ms. Jyothi Susan Varghese	Effective Clinical Supervision	INE, Gandhinagar
371	Ms. Annamma John	Critical care in cardiac nursing practice-An integration of care competence to	Mar Sleeva college of Nursing, Cherpunkal

		excellence	
372	Ms. Alphonsa Jacob	Emergency care	MKM Hospital, Pravithanam
373	Ms. Lisamma Sebastian	Effective Clinical Supervision	INE, Gandhinagar
374	Ms. Ambujam M. B	”	”
375	Ms. Divya S	”	”
376	Ms. Harsha Pradeep	”	”
377	Ms. Regin Joseph	”	”
378	Ms.Simi K.K.	”	”

2.6. Innovative processes adopted by the institution in Teaching and Learning:

1. School of Behavioural Science

School of Behavioural Sciences organizes interviews with scholars working in the field administrators of centres working for persons with disability are arranged as part of teaching and learning, in addition to the regular teaching learning activities

2. School of Bio-Science

- ❖ Viewing and discussion of documentaries and movies
- ❖ Organizes invited talks
- ❖ Workshops
- ❖ seminars

3. School of Chemical Science

- ❖ Evaluation of students is based on both Continuous Assessment (internal) and the End Semester Examinations (external) with an allotment of 50% marks for each.
- ❖ Different methods of assessing the student – tests, quiz, seminars, assignments, projects, dramatization of plays, etc.
- ❖ Computer Based Testing (CBT), is administered for several courses
- ❖ Open Book Test is being administered for some papers.
- ❖ Internship training
- ❖ Industrial visits
- ❖ Workshops
- ❖ Lecture series by renowned scientists

4. School of Computer Sciences

- ❖ Use of ICT in teaching.
- ❖ Presentation and Interactive sessions of students, Guest Lectures
- ❖ Soft skill training programs
- ❖ Smart class Facility

- ❖ Video conferencing facility.
- 5. School of Distance Education**
- 6. School of Environmental Science**
Organized lectutes under erudite program
- 7. School of Gandhian Thought and Development Studies**
ICT-enabled teaching-learning process followed. Student-centred teaching strategies were introduced
- 8. School of Indian Legal Thought**
 - ❖ Assignment and Seminar presentation,
 - ❖ Moot courts
 - ❖ Mock Trails
- 9. School of International Relation & Politics**
The School ensured appropriate mechanisms, internally, to analyse the cognitive skills of students and research scholars as well as to ascertain the strength of knowledge, intelligence and articulation they have gained over years. Periodic review sessions are arranged, group-wise and individual-wise, to assess the levels of gap, if any, and to propose corrective means thereof. The SIRP continued to maintain a learner-friendly, need-based instructional/learning milieu to facilitate the students and research scholars to acquire appropriate skills and capacity. The instructional pattern, apart from its information-based mode, inculcates values of social theory, self-reflexivity and policy-alternative thinking. The learner-friendly mode promoted cognitive-analytical skill of students and, wherever necessary, provides space for the empowerment of the disadvantaged in the learning process through informal counselling and tutorial interfaces. While classroom engagements continue to be an indispensable factor for the imparting of knowledge, periodic seminars, book/article review sessions and group interfaces provide the necessary intellectual climate for the learning and research in the School. The School has introduced a variety of audio-visual systems such for lectures and seminars.
- 10. School of Printing & Publishing**
- 11. School of Letters**
Power Point Presentations, OHP, Educational Films, Industrial Visits, Visits to Heritage Sites and Visit to Prominent Libraries, Educational Exhibitions, Poster making, Case Studies, News paper reports, Group Discussion, and Educational games.
- 12. School of Pedagogical Sciences**
 - ❖ Use of the ICT in teaching-learning process.
 - ❖ The library resources have been augmented with the subscription e-journals
 - ❖ Utilized instructional packages, models and Strategies.
- 13. School of Physical Education & Sports Science**
 - ❖ The institution has adopted PPT presentations for teaching learning process.
 - ❖ Continuous evaluation to monitor the teaching and learning of various courses offered by the school.
- 14. School of Pure and applied physics**

Teachers are requested to apply the teaching and course plan in every subject. The individual teachers as well as Heads are requested to organise departmental seminar and group discussion among the students.

15. School of Management & Business Studies

School of Management & Business Studies has introduced Case study, e learning, Live Project, Assignment and, Participative Learning.

16. School of Social Science

The school has offers M Phil. Programme in Human Ecology and Natural History and Social transformation and Empowerment. Advaned audiovisual technology is used for taching and learning process.

17. School of Technology & Applied Sciences

18. School of Tourism Studies

School of Tourism Studies Use of Audio Visual Aids like LCD Projectors, Speakers, portable mikes etc- Smart Class rooms with white boards; Assignments- Seminars- Tutorial- e learning- role plays in language classes (English and French), Group Discussion- Mock interviews; Semester Plan for overall academic planning and timely execution, Destination Visits and National Tours, Group projects with a view to enhance practical knowledge and social impacts. Student Newsletters titled Eco voice and Hue Use of ODLL Language learning Software in Language Lab to enhance Communication skills; SPSS Software for tourism research purpose used in the SPSS Lab; Two months internship training in collaboration with the industry:- constant validity check using DPR (Daily Progress Report), IEF (Internship Evaluation Form) and Internship certificate WIFI connectivity in the School to enhance e- learning Lesson Plan system for timely and effective execution of each course Use of tourism educational aids and DVDs from INSIGHT MEDIA, New York, Use of online reservation systems (GALILEO & AMADEUS) and software systems like VIRTUAL HOTEL, VIRTUAL TRAVEL AGENCY & VIRTUAL FOOD & BEVERAGE from Mundus Education Corporation, USA to improvise the technical skills of the student's. Edmodo, a digital online teaching learning interactive platform 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 was introduced.

19. Department of Life-Long Learning & Extension

Education was imported through non formal media.

20. School of Technology and Applied science , Pularikunnu

Use of audio visual aids

2.13 Initiatives undertaken towards faculty development

For faculty development, University encourages faculty to participate in various faculty exchange programs, refresher courses, workshops etc. The measures taken by various Schools as follows

SCHOOL OF BEHAVIOURAL SCIENCES

Rajesh E

1. Attended Orientation Programme conducted by UGC Academic Staff College, University of Calicut, from 09-01-2015 to 06-02-2015.
2. Attended Short course in Fundamentals of Biostatistics, Principles of Epidemiology and SPSS from March 16 to 20, 2015 at CMC Velloor

SCHOOL OF BIO SCIENCES: NIL.

SCHOOL OF CHEMICAL SCIENCES: NIL.

SCHOOL OF COMPUTER SCIENCES

Prof. (Dr.) R. Vijayakumar

3. 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.
4. Attended a workshop on 'NAAC Accreditation' organized by the University on 19th March 2015.

Ms. Bindu V.R.

5. Organized and attended a 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.
6. Organized an 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 the various institutions under M G University on 27th August 2014, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay was the resource person.
7. Organized and attended the National E-seminar "Steps2Research" at School of Computer Sciences during 19-20 September 2014.
8. Organized a seminar at School of Computer Sciences by Dr Madhu S Nair, Asst.Professor, Dept. of Computer Science, University of Kerala, on "Research Topics for M Tech Dissertation" on 18.09.2014.
9. Co-ordinated and 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.

10. Attended an International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
11. Organized Interface 2014, a National level IT Fest conducted by the School in association with Computer Science Students' Association of the School.
12. Attended the Second International Conference on **IN**formation Systems **D**esign and **I**ntelligent **A**pplications – 2015(INDIA 015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management , University of Kalyani, West Bengal, India.
13. Organized a workshop on 'Training A-view System' on 23rd February 2015 for the faculty members and technical staff of the School. A-view is an interactive e-learning Tool developed by Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India.
14. Participated in the 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.
15. Attended a workshop on 'NAAC Accreditation' organized by the University on 19th March 2015.
16. Professional Member of ACM (Association of Computing Machinery).

Ms. Pushpalatha K.P.

17. Attended a 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.
18. Attended an awareness workshop on Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India) organized by the University 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, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay was the resource person.
19. Co-ordinated and attended the National E-seminar "Steps2Research" at School of Computer Sciences during 19-20 September 2014.

20. Co-ordinated and 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.
21. Member of organising committee, Interface 2014, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School.
22. Attended a workshop on ‘Training A-view System’ on 23rd February 2015 organized by the School. A-view is an interactive e-learning Tool developed by Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India.

Ms. Anuj Mohamed

23. Attended a 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.
24. Attended an awareness workshop on Spoken Tutorial project (an initiative of NMEICT, MHRD, Govt. of India) organized by the University 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, at the seminar hall of School of Computer Sciences. Mr. Swapnil More, Training Coordinator, Spoken Tutorial (MHRD, NMEICT) IIT Bombay was the resource person.
25. Attended the National E-seminar “Steps2Research” at School of Computer Sciences during 19-20 September 2014.
26. Co-ordinated and 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.
27. Attended an International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
28. Member of organising committee, Interface 2014, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School.
29. Attended the Second International Conference on **IN**formation Systems **D**esign and **I**ntelligent **A**pplications – 2015(INDIA 015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management , University of Kalyani, West Bengal, India.
30. Attended a workshop on ‘Training A-view System’ on 23rd February 2015 organized by the School. A-view is an interactive e-learning

Tool developed by Amrita University under the initiative of NMEICT, Ministry of Human Resource Development, Govt. of India.

31. Organized a workshop on 'Scilab' for the second semester MSc students of the School on 25/3/2015 with course material provided by the "Talk To A Teacher" project at IIT Bombay. This training was offered by the Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India.
32. Attended a workshop on 'NAAC Accreditation' organized by the University on 19th March 2015.
33. Professional Member of ACM (Association of Computing Machinery).

SCHOOL OF ENVIRONMENTAL SCIENCE: NIL

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT

Manjusha.K.A

34. Attended an Orientation Programme from 5.6.2014 to 2.7.2014 at Academic Staff College, University of Calicut, Kerala.

Dr.SandhyaR.S

35. Participated in the UGC sponsored Refresher Course in Human Rights (Multi-Disciplinary), Conducted by the Academic Staff College, University of Kerala, Kariavattom (June, 2014)

Roy.C.Mathew

36. Attended the Faculty Development Programme on Research Methodology 12 days workshop on Data Analysis in Research held at Research and post - graduate Department of Commerce, Kuriakose Gregorios College, Pampady which ended on 7th March 2015.

SCHOOL OF INDIAN LEGAL THOUGHT

Dr.Sheeba Pillai

37. 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.

Dr. Jasmine Alex

38. Workshop for Law Teachers on Teaching and Research in IPR organised by the Inter University Centre for IPR Studies held at Cochin University of Science and Technology during 5-6 May 2014

Sri. Sunil Kumar Cyriac

39. Participated in the two week Faculty Development Programme organised by Mahatma Gandhi University from 30th July to 12th August 2015

SCHOOL OF INTERNATIONAL RELATION & POLITICS: NIL

SCHOOL OF LETTERS: NIL

DEPARTMENT OF LIFE-LONG LEARNING & EXTENSION: NIL

SCHOOL OF MANAGEMENT & BUSINESS STUDIES: NIL

SCHOOL OF PEDAGOGICAL SCIENCES: NIL

SCHOOL OF PURE AND APPLIED PHYSICS: NIL

SCHOOL OF SOCIAL SCIENCE: NIL

SCHOOL OF TOURISM STUDIES: NIL

**INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE & TECHNOLOGY:
NIL**

INTER UNIVERSITY CENTRE FOR DISABILITY STUDIES (IUCDS): NIL

INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE RESEARCH AND EXTENSION: NIL

3.2 Details regarding major projects

The comprehensive information on the research projects, funding agency, amount sanctioned etc., are listed as each school and then faculty wise as follows,

School of Behavioural Science: NIL

School of Bio-Science

Faculty	Title	Funding agency	Amount (Lakhs)
Dr.Jisha.M.S	Molecular Basis of Sodium Dodecyl Sulphate (SDS) Bioremediation & Bioreactor Designing	KSCSTE	1391568
Dr.Jisha.M.S	Characterization of endophytic diazotrophic bacteria from rice (Oryzasativa) and assessment of their potential biocontrol of rice sheath blight disease	UGC	1393300

Dr.Radhakrishnan E K	Infrastructure development for applied Life Science Research (IDAL)	KSCSTE, SARD Programme	22LAKHS
Dr.Radhakrishnan E K	Studies on molecular and chemical basis of plant growth promoting and antiphytopathogenic properties of rhizosphere microorganisms (sanctioned)-	KSCSTE	25 LAKHS
Dr.Jyothis Mathew	Studies on immunomodulatory effects of Acacia catechu	UGC	1116300
Dr. Jaychandran K	“Acetyl Homoserine Lactone based quorum sensing and its biotechnological applications”	KSCSTE	16,50,000
Dr. JG Ray	Collection, identification and screening of green algae from bloomed water bodies of Kerala for quality and quantity of lipids.	KCSTE	27lakhs
Dr. JG Ray	Endomycorrhizal Studies in Musa sp of South India	UGC	13.5 lakhs
Dr.Keerthi.T.R	“Exploration of honey bee gut microbiota for industrial and therapeutic applications’	DST-SERB	
Dr. Aniey .Y	“Immunomodulatory effect of beta glucan on neutrophil functions in Diabetes mellitus- An in vitro study” under Women Scientist-Back-to-lab Programme.	KSCSTE	13LAKHS
Dr. Aniey .Y	“Novel Aldose reductase inhibitors from natural sources”	DBT-MSUB	
Dr Prakash Kumar B	In vitro studies on inhibition of eicosanoid metabolism for control of arthritis by extracts of stem of Tinospora	DBT New Delhi	Rs. 21.17 lakhs

	cordifolia”		
Dr Prakash Kumar B	Evaluation of methanolic extracts of Elephantopus scaber for inhibitors of 5-lipoxygenase (5-LOX) and cyclooxygenase-2 (COX-2)	KSCSTE	15.72 lakhs
Dr Prakash Kumar B	DBT- Boost to University Interdisciplinary Life science Departments for Education and Research (BUILDER) programme	Department of Biotechnology, New Delhi	Rs. 3950784 0

School of Chemical Science

Faculty	Title	Funding agency	Amount (Lakhs)
Prof. Sabu Thomas	Development of Supertough Thermosets from Self Assembled Nanostructured Block Copolymer/Epoxy resin Blends	DRDO New Delhi	30.015 lakhs
	High performance polymer blends from epoxy resin and poly trimethylene terephthalate for aerospace application	Aeronautics R & D Board, New Delhi	25.038 lakhs
	Design and development of hydrogenated nitrile rubber nanocomposite membranes for zero gas transport applications	ISRO	10.00 lakhs
	Development of Multi Walled Carbon Nanotube Filled Polycarbonate/ Polypropylene Double Percolating Conductive Polymer Blend Nanocomposites for Electromagnetic Interference Shielding Gaskets for Mobile Phones.,DIT-New Delhi		

	Novel thermoplastic elastomer compositions for neutrons shielding applications	BRFST, BRNS Govt. of India	35 lakhs
	Physics of cavitation bubbles and hydrogen generation during liquid phase laser ablation	BRFST, BRNS Govt. of India	35 lakhs
	Rubber blends for tyre applications	MRF Tyres	Rs. 6 lakhs

School of Computer Sciences: NIL

School of Environmental Science

Faculty	Title	Funding agency	Amount (Lakhs)
School of Environmental Science	Setting up of the Sophisticated Analytical Instrument Facility (SAIF)(ongoing)	DST	Rs.6.5 lakhs
	National Uranium Project (determination of uranium in drinking water in 5 central districts of Kerala)(ongoing)	, BRNS, Mumbai	Rs. 24 lakhs
	National Radiation Monitoring Project (Monitoring of natural radiation in Kerala)(ongoing)	BRNS Mumbai	Rs. 10 lakhs
	Mercury geochemistry in agricultural wetland ecosystem (Completed on March 2015)	DST-SERB	
	Accumulation of mercury and cadmium in benthic food web of Cochin estuary- a stable isotope approach (Completed on March 2015)	KSCSTE	
Prof C. T Aravindakumar	Spatial distribution of uranium and associated water quality parameters in five central districts of Kerala (two years beginning from 2014-2015)	BRNS	Rs. 24,48,900
School of Environmental Science	Evolution of Karamana river basin and its implications on hydrogeology: A geomatics approach using morphometric	KSCSTE- BTL	

	analysis (ongoing)		
	Mercury pollution in the sediments of Vembanad Wetland: a chronological approach (ongoing)	UGC	
	Long - Term Monitoring of Kongsfjorden System of Arctic region for climate change studies, till 2020		
	An investigation on the potential microalgal species for the production of biodiesel from Kuttanad wetland ecosystem, Kerala	UGC	8.5 Lakhs

School of Gandhian Thought and Development Studies:

Faculty	Title	Funding agency	Amount (Lakhs)
School of Gandhian Thought and Development Studies	The Millenium Development goals ,Human Rights & Tribal Development A Comparative study of the Malaipandaram Tribes in Pathanamthitta and Kollam Districts	ICSSR	Rs.20 lakhs

School of Indian Legal Thought: NIL

School of International Relation & Politics : ONGOING: 3

School of Letters NIL

Department of Life Long Learning and Extension: NIL

School of Management and Business Studies: NIL

School of Pedagogical Sciences

Faculty	Title	Funding agency	Amount (Lakhs)
Dr. Sajna Jaleel	Teaching Mathematical Thinking through e-contents in Mathematics among secondary School Students	UGC	2.565

School of Pure and applied physics

Faculty	Title	Funding agency	Amount (Lakhs)
Dr. N V Unnikishnan	Sol-Gel Synthesis and characterization of tellurite based device materials	UGC- CSIR	15.42 lakhs
Dr. N V Unnikishnan	Preparation of novel planar optical waveguides via ion-exchange/sol-gel route and their characterization	KSCSTE	11.98 Lakhs
Dr. N V Unnikishnan	Relaxation and Photo conductivity mechanism in optical materials under pulsed laser excitation	KSCSTE	5.75 lakhs
Dr. K Nandakumar	Dynamics of Plasma plume evolution during laser ablation of metal targets in stationary and flowing liquid media	DST	40 lakhs
Dr K Nandakumar	Nanoparticle aggregation behavior in polymer nanocomposites	UGC-DAE-CSR Kolkata	7,89,400/-
School of Pure and applied physics	DST FIST Department Project	DST	40 lakhs

School of Social Science NIL

School of Tourism Studies NIL

International and inter University Centre for Nano Science and Nano Technology (IUCNN)

Faculty	Title	Funding agency	Amount (Lakhs)
Prof. Sabu Thomas	Nano materials: Synthesis and characterization and	DST, New Delhi	67.45 lakhs
	“Nanoscale materials for Water purification and for the fabrication of nano composites for biomedical applications”	Higher Education Department, Govt. of Kerala	100.00 lakhs
	Extraction of cellulose nanocrystals from varying technical applications	DST/Brazil,	Rs.10.226 39 lakhs

Advanced Centre of Environmental Studies & Sustainable Development (ACESSD): NIL

Inter University Centre for Disability Studies (IUCDS): NIL

Inter University Centre for Social Science Research and Research and Extension (IUCSSRE): NIL

Institute for Intensive Research in Basic Sciences (IIRBS)

Faculty	Title	Funding agency	Amount (Lakhs)
Institute For Intensive Research in Basic Sciences (IIRBS)	DST Inter University NMR Facility (IRPHA Scheme) Project No.: IR/S1/CU/01/2007(ongoing)	DST, Govt. of India	Project Amount – 1.55 Crores
Institute For Intensive Research in Basic Sciences (IIRBS)	Ex-chiral pool synthesis towards few molecules of Anticancer & Anti-tuberculosis Likeness. Project No. 02(0101)/12/EMR-II dated 31.10.2012	CSIR	Project Amount – 30 lakhs
Institute For Intensive Research in Basic Sciences (IIRBS)	Project “Synthesis of few Medicinally Important Chiral Molecules Derived from Renewable Resources Project No.SR/S1/OC-98/2012 dated 07.03.2013	DST, Govt. of India	Project Amount - 55lakhs

CENTRE FOR ENGLISH LANGUAGE AND COMMUNICATION SKILLS: NIL**UNIVERSITY CENTRE FOR INTERNATIONAL CO-OPERATION**

Faculty	Title	Funding agency	Amount (Lakhs)
UNIVERSITY CENTRE FOR INTERNATIONAL CO-OPERATION	“India Study Programme”	Higher Education Council, Got. Of Kerala	Rs 10 lakhs

INSTITUTE OF CONTEMPORARY CHINESE STUDIES: NIL**K.N. RAJ STUDY CENTRE FOR PLANNING AND CENTRE STATE FINANCIAL RELATIONS: NIL****3.3 Minor Projects**

School of Tourism Studies

Faculty	Title	Funding agency	Amount (Lakhs)
Dr. Robinet Jacob	Social Media as an Influencer among Foreign Tourists	Ministry of Tourism,	Rs.1 Lakh

	visiting India	Government of India through IITTM (Indian Institute of Travel and Tourism Management)	
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3.4 Details of Research Publications

SCHOOL OF BEHAVIOURAL SCIENCE

A. Peer Review Journals Nil

Dr. P.S.Sukumaran

1. Ambady K.G., and Prof. **Dr. P.S Sukumaran**. Attitude of Tribals of Attappady towards Mental Retardation in terms of their Awareness level on Mental Retardation". Conflux Journal of Education, Vol.1, No.11, PP 31-35
2. Inclusive Education of students with Mental Retardation and Learning Disabilities. Theme paper published in the proceedings of UGC sponsored two day National Seminar on "Inclusive Education". An Imperative for learning to live together, October 2014", Titus II Teachers College, Thiruvalla, PP14-24.
3. Jayania and P.S. Sukumaran (2014) Awareness of Teachers of children with Mental Retardation on Reinforcement Strategies. Proceeding of the two day National Seminar on Paradigms of Educational Research for the 21st Century. Equipping Gen Next with Reflective Approaches," December 2014. Avila College of Education, Cochin, PP 16- 22.
4. Sampling Techniques. Theme paper published in the proceedings of National Workshop on "Quantitative Research and Data Analysis", December 15-17, December 2014. Government College of Teacher Education, Thiruvananthapuram, PP 27-14.
5. Sr. Simili P Chacko & P.S Sukumaran (2015) Attitude of Parents of Persons with Mental Retardation towards Community Based Rehabilitation Programme Conflux Journal of Education 2,10, 8-15.
6. Simili P. Chacko & P.S. Sukumaran. Presented Paper on----- in the Seminar on Education of Differently Abled Children- Redefining the Role of Teacher Educators. Organized by St. Mary's College of Teacher Education, Thiruvalla 13.03.2015.
7. Dr. Mary P.V (Sr. Glory) & P.S Sukumaran (2015) Effect of literary Rich Approach in the Generalization and maintenance of vocabulary skills in CWID. Journal of Disability Management and Spl.Education, 5,1, 34-41.
8. Effect of Sleep duration on obesity and the glycamic level in patient with type 2 Diables (2014) Asian journal of Nursing Education & Research December 2014 (4) 502-507 Thressia P.A & Rajeev Kumar N

Sri. Rajesh E

9. Sathian B, Nagaraja S.B, Banerjee. I, Mittal. A, De.A, Roy. B, Rajesh.E, Senthilkumaran.S, Hussain. S A, Menezes. R.G. Awareness of Breast Cancer warning signs and screening methods among female residents of Pokhra Valley, Nepal. Asian Pacific Journal of Cancer prevention, 2014,Vol.15, 4723-4726.
10. Sathian B, Kumar A, Sreedharan J, Banerjee. I, Roy. B, Rajesh. E. Time Trend and Prediction of Grade 2 Disability among new cases of Leprosy in Nepal: A Statistical Modeling, Nepal Journal of Epidemiology, 2014,4(3), 378-383.
11. Sathian B, Adhikari.S, Sreedharan. B, Banerjee. I, Roy.B, Rajesh.E, Time Trend of the people lost follow up of Antiretroviral therapy(ART) Services in Nepal: A Epidemiological Modeling, Indian Journal of Community Health, 2014, 26(2),145-149.

B. Non-Peer Review Journals – Nil

C. E-Journals– Nil

D. Conference Proceedings – Nil

SCHOOL OF BIO-SCIENCE

A. Peer Review Journals

Dr. Ray JG

1. Ray JG & Mariamma Jacob (2015) Critical analysis of ecological theory for the emergence of right human environmental perspectives, LISSAH Journal, 1 (1), 37-52
2. Ray JG & Mariamma Jacob (2015) Critical analysis of ecological theory for the emergence of right human environmental perspectives .LISSAH Journal - International multidisciplinary Journal of holistic health. Pages: Vol. 1 (1); 37-52

Dr. M S Latha

1. RN Raji and MS Latha. Curative effect of *Elephantopus scaber* Linn. on N' Nitrosodiethylamine induced hepatocellular carcinoma in rats. International Journal of Pharmaceutical Science and Research (IJPSR). 2014, 5(9): 3942-51.
2. SP Prabha, A Nitha, PN Ansil and MS Latha. Cardioprotective effect of methanolic extract of *Gardenia gummifera* Linn. on Isopretenol induced myocardial infarction in rats. International Journal of Pharmaceutical Sciences and Research (IJPSR). 2014, 5(9): 3817-3828.
3. Binil Eldhose, Mia Gunwan, Mahuber Rahman, MS Latha and Vincent Notario. Plumbagin reduces human colon cancer cell survival by inducing

cell cycle arrest and mitochondria- mediated apoptosis. International Journal of Oncology. 2014, 10,3892/ijo: 2592.

4. PN Ansil, A Nitha, SP Prabha, MS Latha. Curative effect of *Amorphophallus campanulatus* (Roxb.) Blume. Tuber on N'-nitrosodiethyloamine induced hepatocellular carcinoma in rats. Journal of Environmental Pathology, Toxicology and Oncology. 2014, 33(3): 205-18.
5. LR Helen, M Jyothislakshmi and MS Latha. Phytochemical and Anti-oxidant screening of various extracts of the root, bark and leaf of *Clerodendrum infortunatum* Linn. Pharmacophore. 2014, 5(2): 343-51.
6. B Latha and MS.Latha. Curative efficacy of methanolic extract of *Monochoria vaginalis* against carbon tetrachloride induced liver fibrosis in male wistar rats,IOSR Journal of pharmacy and Biological Sciences 2014,9(1):71-76.

Dr. Radhakrishnan E. K

1. Chithra S, Jasim B, Anisha C, Mathew J, Radhakrishnan EK. LC-MS/MS based identification of piperine production by endophytic *Mycosphaerella* sp. PF13 from *Piper nigrum*. Appl Biochem Biotechnol. 2014, 173(1): 30-5. **(Impact Factor – 1.74)**
2. Thomas R, Nair AP, KR S, Mathew J, Radhakrishnan EK. Antibacterial activity and synergistic effect of biosynthesized AgNPs with antibiotics against multidrug-resistant biofilm-forming coagulase-negative staphylococci isolated from clinical samples. Appl Biochem Biotechnol. 2014, 173(2): 449-60. **(Impact Factor – 1.74)**
3. John C. Jimtha, P. V. Smitha, C. Anisha, Thomas Deepthi, George Meekha, Radhakrishnan EK, G. P. Gayatri, A. Remakanthan. Isolation of endophytic bacteria from embryogenic suspension culture of banana and assessment of their plant growth promoting properties. Plant Cell Tiss Organ Cult 2014, 118: 57–66. **(Impact Factor – 2.125)**
4. Jasim B, Jimtha John C, Shimil Vellakudiyan, Jyothis Mathew and Radhakrishnan EK, Studies on the factors affecting Indole-3-acetic acid production in endophytic bacteria and molecular analysis of *ipdC* gene, Journal of Applied Microbiology 2014, 117(3):786-99. **(Impact Factor – 2.479)**
5. Jasim B, Soumya R, Jyothis Mathew and Radhakrishnan EK, Exploration of actinomycetes endophytically associated with *Piper nigrum* for antimicrobial, antiproliferative and antioxidant activity", The Journal of Microbiology, Biotechnology and Food Sciences (Accepted)
6. Radhakrishnan EK, Smitha V. Bava (equal contributor) Sai Shyam Narayanan , Lekshmi R. Nath , Arun Kumar T. Thulasidasan, Eppurathu Vasudevan Soniya, Ruby John Anto, "[6]- Gingerol Induces Caspase-

- Dependent Apoptosis and Prevents PMA- Induced Proliferation in Colon Cancer Cells by Inhibiting MAPK/AP-1 Signaling”, PLoS ONE, 2014, 9(8): e104401. (**Impact Factor – 3.234**)
7. Roshmi Thomas, Anju Janardhanan, Rintu T Varghese, Sonia E V, Jyothis Mathew and **Radhakrishnan EK**. Antibacterial properties of silver nanoparticles synthesized by marine *Ochrobactrum* sp., Brazilian Journal of Microbiology, 2015, 45(4):1221-7 (**Impact Factor – 0.452**).
 8. Anisha C, **Radhakrishnan EK**, Gliotoxin-Producing Endophytic *Acremonium* sp. from *Zingiber officinale* Found Antagonistic to Soft Rot Pathogen *Pythium myriotylum*. **Appl Biochem Biotechnol**. 2015, 175(7):3458-67 (**Impact Factor – 1.74**)
 9. Jasim B, Geeethu, Jyothis Mathew, **Radhakrishnan EK** "Effect of endophytic *Bacillus* sp. from selected medicinal plants on growth promotion and diosgenin production in *Trigonella foenum graecum*", **Plant Cell, Tissue and Organ Culture (PCTOC)**, 2015, 122:565–572 (**Impact Factor – 2.125**)
 10. Roshni Thomas, Soumya KR, Jyothis Mathew, **Radhakrishnan EK**, Inhibitory effect of silver nanoparticle fabricated urinary catheter on colonisation efficiency of Coagulase Negative Staphylococci, **Journal of Photochemistry and Photobiology B: Biology**, 2015, 149:68–77 (**Impact Factor – 2.960**)
 11. Roshni Thomas, **Radhakrishnan EK** “Electrospun polycaprolactone membrane incorporated with biosynthesized silver nanoparticles as effective wound dressing biomaterial” **Appl Biochem Biotechnol**- 2015, 176(8):2213-2224 (**Impact Factor – 1.74**)
 12. Jasim B, Anish, Shimil, Jyothis Mathew, **Radhakrishnan EK** “Studies on plant growth promoting properties of fruit associated bacteria from *Elettaria cardamomum* and molecular analysis of ACC deaminase gene” **Appl Biochem Biotechnol**. (2015) 177:175–189 (**Impact Factor – 1.74**)
 13. Roshni Thomas, **Radhakrishnan EK** "Effect of biofabricated gold nanoparticle based antibiotic conjugates on Minimum Inhibitory Concentration of bacterial isolates of clinical origin- **Gold Bulletin** 2015, 48(1):63-71 (**Impact Factor – 1.590**)
 14. Suada, Jasim, Jimtha, Gayathri, **Radhakrishnan EK**, Remakanthan A – Phytostimulatory and hardening period reducing effects of plant associated bacteria on micropropagated *Musa accuminata* cv. Grand naine, **In Vitro Cellular and Developmental Biology – Plant** – Accepted (**Impact Factor – 0.981**)

Dr. JYOTHIS MATHEW

1. V.S.Suntha,M.A.Sunil,E.K.Radhakrishnan and Jyothis Mathew (2014) Invitro and In vivo immunomodulatory effects of thirst quenchers of Kerala on murine peritoneal macrophages Nepal Journal of Epidemiology 4(2) Published online
2. Lal Raisa Helen,Mathew Jyothis, Latha Mukalel Sankunni (2015) . Trypsin inhibiting activity of methanolic extract of aerial parts of Mikania micrantha Madhavankutty Jyothilakshmi, International Journal of Pharma Sciences and Research 6(2) 259-261

Dr. Jayachandran K

1. Amith Abrahama, Sunilkumar P. N.b, Shaji Philipc, Divya G. Naird, Aparna C.a and Jayachandran Ka Molecular modeling and docking studies of an alpha 1,4- amylase from endophytic Bacillus amyloliquefaciebns. *, DOI. 10.1080/21553769.2013.852993. (2014) (Taylor and Francis). **Impact factor 0.294**
2. Amith Abrahama, Shaji Philipc Manoj Kurian Jacob, Sunilkumar P. N.b,C.Kuruvilla Jacob and Jayachandran K.Phenazine 1 carboxylic acid mediated anti-oomycete activity of the endophytic Alcaligenes sp EIL-2 against Phytophthora meadii Microbial Research, <http://dx.doi.org/10.1016/j.micres.2014.06.002> (2014) (Elsevier)). **Impact factor 2.564**
3. Dhanya Vijayana, Amith Abrahama, Indu Chandrasekharan Nairb and Jayachandran Kochupurackala Microbial consortia formulation for the effective biodegradation of benzene, toluene, xylene and phenol. International journal of Microbiology, Biotechnology and Food sciences Vol 3, No 6. (2014),

Dr. Jisha M. S

1. Elizabeth Mary John and Jisha M.S (2015),Chlorpyrifos: pollution problems and remediation accepted for publication in Environmental Chemistry Letters as review paper. **impact factor 2.573**
2. 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**
3. 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**

4. 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
5. 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**
6. Ambilli M. Nair; Sharrel Rebello; Rishad K.S; Aju K. Asok and Jisha M.S. (2014) 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 0.575**

Dr. Keerthi.T.R

1. Anu P. Sebastian and Keerthi T.R.,(2015) "Molecular characterization and health promoting attributes of MBTU PBBM1 isolated from cow milk" *International Journal of Current Microbiology and Applied sciences*
2. Anu P Sebastian, Keerthi. T. R. (2014) Immunomodulatory effect of probiotic strain *Bacillus subtilis* MBTU PBBMI spores in Balb/C Mice. *International Journal of Engineering and Technical Research (IJETR)* ISSN: 2321-0869, Volume-2, Issue-11, November 2014. **Impact factor-1.315**
3. Anjali Anne Jacob and Keerthi. T. R (2014); Characterization of antibacterial compound produced by the potential probiotic Lactic Acid Bacteria *Enterococcus faecium* MBTU-P1F1 isolated from infant feces against typhoid fever pathogens, *Nepal Journal of Epidemiology*; 2014, Vol. 4 Issue 2, p6. SOURCE TYPE. Academic Journal. DOC. TYPE. Abstract.

Dr. Prakashkumar.B

1. Prakash Kumar B, Anu P. Abhimannue, Mohind C. Mohan, Jenny Jacob, Bashi M. Babu . Inhibition of lipoxygenase by elephantopus scaber extract and determination of its inhibition pattern. *J Adv Sci Res*, 2015, 6(1): 01-05
2. Jenny Jacob, Prakash Kumar B. Dual COX/LOX inhibition: screening and evaluation of effect of medicinal plants of Kerala as Anti-inflammatory agents. *Journal of Pharmacognosy and Phytochemistry* 2015; 3(6): 62-66
3. Jenny Jacob, Prakash K.B., Anu P. Abhimannue, Mohind M., Bashi M. Babu Inhibition of lipoxygenase enzymes by extracts of *Tinospora cordifolia*: A study of enzyme kinetics. *Journal of Natural Products*, Vol. 7(2014): 203-209

Dr. R. Harikumaran Nair

1. Mathews VV, Paul MS, Abhilash M, Manju A, Abhilash S, **Nair RH**. Mitigation of hepatic effects of arsenic trioxide through omega-3 fatty acid in rats. *Toxicol & Industrl Health*, 2014 Octo:30 (9): 806-13. DOI: 10.1177/0748233712463778. **Impact factor:1.71**
2. Abhilash M., Mathews V. Varghese., MV Sauganth Paul., Manju Alex., and **R. Harikumar Nair**. Effect of long-term intake of aspartame on serum biochemical parameters and erythrocyte oxidative stress biomarkers in rats. *Comp Clinic Pathol*,2014:1-7
3. S. Abhilash, R C Vineetha, Mathews V Varghese, **R Harikumar Nair**. Docosahexaenoic acid relieves cellular damage due to oxidative stress induced by the chemotherapeutic agent arsenic trioxide in H9C2 cardiomyocytes. *Int. J. of pharma and pharmaceu res human*, 2014; Vol.2(1):45-58
4. Manju Alex, Mathews V Varghese M, Abhilash, MV Souganth Paul, **R.Harikumar Nair**. Effect of astaxanthin on diuresis and body composition in experimental nephrolithiasis. *Int J of Pharma Sci Inv*, 2014: 3;17-22
5. M. Abhilash, Manju Alex Varghese V Mathews, **R.Harikumar Nair**. Chronic effect of aspartame on ionic homeostatsis and monoamine neurotransmitters in the rat brain. *Int J of Toxicol*, 2014: May 28 DOI: 10915818114537087. **Impact factor 1.346**
6. Vineetha R.C, Abhilash S, **R. Harikumar Nair**. L-Ascorbic acid and α -Tocopherol to protect against arsenic trioxide induced oxidative stress in H9c2 cardiomyocytes. *IOSR J of Pharma and Biol Sci (IOSR-JPBS)*. Volume 9, Issue 6 Ver. I (Nov -Dec. 2014), 13-19.

E. Non-Peer Review Journals – Nil

F. E-Journals– Nil

G. Conference Proceedings – Nil

SCHOOL OF CHEMICAL SCIENCES

A. Peer Review Journals

Prof (Dr. Sabu Thomas)

1. Antibacterial and Sensing Properties of Dextrose Reduced Starch– Capped Silver Nanoparticles Synthesised via a Completely Green Method.S Mohan, OS Oluwafemi, N Kalarikkal, S Thomas. *Materials Today: Proceedings* 2 (7), 3943-3949
2. New Biobased Surface Treatment to Improve Strength and Durability of Bombax ceiba P Saha, S Chowdhury, S Manna, D Roy, B Adhikari, S Thomas .*ACS Sustainable Chemistry & Engineering* 4 (1), 76-84

3. BIOLOGICAL DELIGNIFICATION OF BIOMASS. J JOY, C JOSE, PL MATHEW, S THOMAS, MN KHALAF. *Green Polymers and Environmental Pollution Control*, 271
4. Selective localisation of multi walled carbon nanotubes in polypropylene/natural rubber blends to reduce the percolation threshold. ST Nair, PP Vijayan, P Xavier, S Bose, SC George, S Thomas. *Composites Science and Technology* 116, 9-17
5. In Vitro and In Vivo Evaluation of Pectin/Copper Exchanged Faujasite Composite Membranes. N Ninan, M Muthiah, IK Park, A Elain, TW Wong, S Thomas, Y Grohens. *Journal of Biomedical Nanotechnology* 11 (9), 1550-1567
6. Flame-retardant properties of nanoclay-filled thermoplastic polyurethane/polypropylene nanocomposites. M Kannan, S Thomas, K Joseph. *Journal of Vinyl and Additive Technology*
7. Environment friendly green composites based on soy protein isolate-A review. RR Koshy, SK Mary, S Thomas, LA Pothan. *Food Hydrocolloids* 50, 174-192
8. Dynamic mechanical properties of immiscible polymer systems with and without compatibilizer. S Jose, S Thomas, J Parameswaranpillai, AS Aprem, J Karger-Kocsis. *Polymer Testing* 44, 168-176
9. Adhesion and Surface Issues in Biocomposites and Bionanocomposites. C Jose, MS Thomas, B Deepa, LA Pothan, S Thomas. *Progress in Adhesion and Adhesives*, 169-217
10. Natural Polymer/Inorganic Material Based Hybrid Scaffolds for Skin Wound Healing. N Ninan, M Muthiah, IK Park, TW Wong, S Thomas, Y Grohens. *Polymer Reviews* 55 (3), 453-490
11. Dynamic mechanical properties of nanoclay filled TPU/PP blends with compatibiliser. M Kannan, K Joseph, S Thomas. *Plastics, Rubber and Composites* 44 (6), 245-251
12. Fabrication of graphite-graphene-ionic liquid modified carbon nanotubes filled natural rubber thin films for microwave and energy storage applications. S Yaragalla, B Sindam, J Abraham, KCJ Raju, N Kalarikkal, S Thomas. *Journal of Polymer Research* 22 (7), 1-10
13. Volume Shrinkage and Cure Kinetics in Carboxyl-Terminated Poly (butadiene-co-acrylonitrile)(CTBN) Modified Epoxy/Clay Nanocomposites. P Vijayan P, J Pionteck, S Thomas. *Journal of Macromolecular Science, Part A* 52 (5), 353-359
14. Gas barrier efficiency of clay-and graphene-poly (isobutylene-co-isoprene) nanocomposite membranes evidenced by a quantum resistive vapor sensor cell. JF Feller, KK Sadasivuni, M Castro, H Bellegou, I Pillin, S Thomas. *Nanocomposites* 1 (2), 96-105
15. Clogging Free Electrospinning of Polycaprolactone Using Acetic Acid/Acetone Mixture. R Augustine, N Kalarikkal, S Thomas. *Polymer-Plastics Technology and Engineering*
16. Surface grafting of flax fibres with hydrous zirconia nanoparticles and the effects on the tensile and bonding properties. A Ajith, G Xian, H Li, Z Sherief, S Thomas. *Journal of Composite Materials*, 0021998315580450

17. Electrospun PCL membranes incorporated with biosynthesized silver nanoparticles as antibacterial wound dressings. R Augustine, N Kalarikkal, S Thomas. *Applied Nanoscience*, 1-8
18. Solvent Uptake of Liquid Rubber Toughened Epoxy/Clay Nanocomposites. PP Vijayan, MG Harikrishnan, D Puglia, JM Kenny, S Thomas. *Advances in Polymer Technology*
19. Functionalized liquid natural rubber and liquid epoxidized natural rubber: A promising green toughening agent for polyester, H Kargarzadeh, I Ahmad, I Abdullah, R Thomas, A Dufresne, S Thomas, *Journal of Applied Polymer Science* 132 (3)
20. Morphological and Rheological Properties of Pectin/Zeolite Composites. N Ninan, S Thomas, Y Grohens. *Advanced Science, Engineering and Medicine* 6 (12), 1309-1312
21. Effect of compatibilizer on the morphology development, static and dynamic mechanical properties of polymer-polymer composites from LDPE and PET, K Jayanarayanan, S Thomas, K Joseph, *International Journal of Plastics Technology*, 1-22
22. A brief review on the chemical modifications of lignocellulosic fibers for durable engineering composites, P Saha, S Chowdhury, D Roy, B Adhikari, JK Kim, S Thomas, *Polymer Bulletin*, 1-34
23. Preparation and Characterization of Corn Starch Nanocrystal Reinforced Natural Rubber Nanocomposites via Co-coagulation Process KR Rajisha, LA Pothan, S Thomas, Z Ahmad, *InCIEC 2014*, 855-864
24. New type of thermoplastic bio composite: nature of the interface on the ultimate properties and water absorption, PS Sari, P Spatenka, Z Jenikova, Y Grohens, S Thomas, *RSC Advances* 5 (118), 97536-97546
25. Tunable water barrier properties of EVA by clay insertion? R Wilson, N Follain, N Tenn, A Kumar, S Thomas, S Marais, *Physical Chemistry Chemical Physics* 17 (29), 19527-19537
26. Transport characteristics of organic solvents through carbon nanotube filled styrene butadiene rubber nanocomposites: the influence of rubber-filler interaction, the degree of reinforcement and morphology, J Abraham, HJ Maria, SC George, N Kalarikkal, S Thomas, *Physical Chemistry Chemical Physics* 17 (17), 11217-11228
27. Compatibilizing action and localization of clay in a polypropylene/natural rubber (PP/NR) blend, N Chandran, S Chandran, HJ Maria, S Thomas, *RSC Advances* 5 (105), 86265-86273
28. Mechanics and Pervaporation Performance of Ionic Liquid Modified CNT Based SBR Membranes-A Case Study for the Separation of Toluene/Heptane Mixtures, J Abraham, T Jose, SC George, N Kalarikkal, S Thomas, *International Journal* 2, 31
29. Electric, magnetic and optical limiting (short pulse and ultrafast) studies in phase pure $(1-x)$ BiFeO₃- x NaNbO₃ multiferroic nanocomposite synthesized by the pechini method, RP Ummer, P Sreekanth, B Raneesh, R Philip, D Rouxel, S Thomas, ..., *RSC Advances* 5 (82), 67157-67164

30. Elastomer Blends: The Role of Nanoparticles on Properties, J Abraham, L Somasekharan, T Sharika, LR Pillai, HJ Maria, S Thomas, Encyclopedia of Polymeric Nanomaterials, 660-666
31. Volume shrinkage and rheological studies of epoxidised and unepoxidised poly (styrene-block-butadiene-block-styrene) triblock copolymer modified epoxy resin–diamino diphenyl methane nanostructured blend systems SM George, D Puglia, JM Kenny, J Parameswaranpillai, J Pionteck, ...Physical Chemistry Chemical Physics 17 (19), 12760-12770
32. Soy Protein-and Starch-Based Green Composites/Nanocomposites: Preparation, Properties, and Applications, RR Koshy, SK Mary, LA Pothan, S Thomas, Eco-friendly Polymer Nanocomposites, 433-467
33. Graphene and graphitic derivative filled polymer composites as potential sensors, D Ponnamma, Q Guo, I Krupa, MASA Al-Maadeed, KT Varughese, ..., Physical Chemistry Chemical Physics
34. Green synthesis of CdSe/ZnS core-shell quantum dot nanophosphors and its Poly methyl methacrylate composite thin film in the visible spectral range, S Mohan, T Soman, SO Oluwafemi, SC George, P Miska, D Rouxel, ..., MRS Proceedings 1748, mrsf14-1748-ii11-18
35. Polymer Blends: State of the Art, New Challenges, and Opportunities
36. J Parameswaranpillai, S Thomas, Y Grohens, Characterization of Polymer Blends: Miscibility, Morphology and Interfaces, 1-6
37. Extraction and Characterization of Cellulose Nanofibers from Banana Plant, B Deepa, E Abraham, RR Koshy, LA Pothan, S Thomas, Handbook of Polymer Nanocomposites. Processing, Performance and Application ..
38. Antibacterial and wound healing analysis of gelatin/zeolite scaffolds, N Ninan, M Muthiah, NA Bt Yahaya, IK Park, A Elain, TW Wong, S Thomas, Y Grohens, Colloids and Surfaces B: Biointerfaces. (2014)115, 244-252 **IP-4.152**
39. Epoxidized natural rubber/epoxy blends: Phase morphology and thermomechanical properties, VS Mathew, SC George, J Parameswaranpillai, S Thomas, Journal of Applied Polymer Science (2014) 131 (4) IP-1.768
40. Advances in Polymer Composites: Biocomposites–State of the Art, New Challenges, and Opportunities, K Goda, MS Sreekala, SK Malhotra, K Joseph, S Thomas, Polymer Composites, (2014): 1-10
41. Facile synthesis of transparent and fluorescent epoxy–CdSe–CdS–ZnS core–multi shell polymer nanocomposites S Mohan, OS Oluwafemi, SP Songca, OA Osibote, SC George, N Kalarikkal, S Thomas, New Journal of Chemistry (2014) 38 (1), 155-162 IP-3.086
42. Completely green synthesis of dextrose reduced silver nanoparticles, its antimicrobial and sensing properties Sneha Mohan, Oluwatobi S Oluwafemi, Soney C George, VP Jayachandran, Francis B Lewu, Sandile P Songca, Nandakumar Kalarikkal, Sabu Thomas, Carbohydrate Polymers (2014) 106, 469 IP-4.074
43. Zeolites incorporated polymeric gel beads–Promising drug carriers N Ninan, S Thomas, Y Grohens, Materials Letters, (2014) 118, 12-16 IP-2.48
44. Collagen coated electrospun polycaprolactone (PCL) with titanium dioxide (TiO₂) from an environmentally benign solvent: preliminary physico-

- chemical studies for skin substitute. Ghosal, K., Thomas, S., Kalarikkal, N., & Gnanamani, A. *Journal of Polymer Research*, (2014) 21(5), 1-5.
45. Natural rubber composites filled with a low volume of crab chitin whiskers: Mechanical and thermal characterization, C Santulli, D Puglia, M Rallini, PM Visakh, JM Kenny, S Thomas, *Malaysian Polymer Journal* 9.1 (2014): 18-23
 46. Stereochemistry and Miscibility of Epoxy Resin-Poly (trimethylene terephthalate) Blends Sarath chandran c chandra sekhara kurup, Sabu Thomas, Robert Shanks, Antolaisic Frank, Klaus-Jochen Eichhorn, *RSC Advances*, (2014) IP-3.840
 47. Isolation and characterization of cellulose nanofibrils from *Helicteres isora* plant Chirayil, C. J., Joy, J., Mathew, L., Mozetic, M., Koetz, J., & Thomas, S. (2014). *Industrial Crops and Products*, (2014) 59, 27-34. IP-2.837
 48. Electrospun polycaprolactone membranes incorporated with ZnO nanoparticles as skin substitutes with enhanced fibroblast proliferation and wound healing. Augustine, R., Dominic, E. A., Reju, I., Kaimal, B., Kalarikkal, N., & Thomas, S. *RSC Advances*. IP-3.840
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 50. Magnetoelectric properties of multiferroic composites $(1-x)$ ErMnO_3 - $x\text{Y}_3\text{Fe}_5\text{O}_{12}$ at room temperature. Raneesh, B., Soumya, H., Philip, J., Thomas, S., & Nandakumar, K *Journal of Alloys and Compounds*, (2014), 611, 381 IP-2.99
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72. Investigation of angiogenesis and its mechanism using zinc oxide nanoparticle-loaded electrospun tissue engineering scaffolds, Robin Augustine, Edwin Anto Dominic, Indu Reju, Balarama Kaimal, Nandakumar Kalarikkal and Sabu Thomas , RSC Adv., 2014,4, 51528-51536 , DOI: 10.1039/C4RA07361D, Paper IP-3.840
73. Reaction-Induced Phase Separation and Thermomechanical Properties in Epoxidized Styrene-block-butadiene-block-styrene Triblock Copolymer Modified Epoxy/DDM System. Sajeew Martin George, Debora Puglia, Jose M. Kenny, Jyotishkumar Parameswaranpillai, and Sabu Thomas Ind. Eng. Chem. Res., 2014, 53 (17), pp 6941–6950

B. Non-Peer Review Journals – Nil

C. E-Journals– Nil

D. Conference Proceedings – Nil

SCHOOL OF COMPUTER SCIENCES

A. Peer Review Journals-

Dr. R. Vijayakumar

1	“Advanced computing for High performance computing applications”	Vijayakumar,R, Kiran V K	IV International Conference on Advanced Computing and Communication for High performance computing applications”, June 2014, FISAT ,Ernakulum, Kerala
2	Scalable parallel clustering approach for large data using modified Firefly algorithm” on	Juby Mathew, Vijayakumar,R,	IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Vol 16, Issue 6, Ver. I (Nov – Dec 2014),PP14-24, DOI: 10.9790/0661-16611424

3	Scalable Parallel Clustering Approach for Large Data using Possibilistic Fuzzy C-Means Algorithm	Juby Mathew, Vijayakumar,R,	International Journal of Computer Applications (IJCA)(0975 – 8887) Volume 103 – No.9, October 2014,PP 24-29. DOI: 10.5120/18103-9195
4	A New Hybrid Scalable Parallel Clustering Approach For Large Data Using FCM And FA	Juby Mathew, Vijayakumar,R,	International Journal of Innovative Research in Computer and Communication Engineering, (IJIRCCE) e-ISSN: 2320-9801,p-ISSN: 2320-9798, Vol.2, Special Issue 5, October 2014,PP 269-276.
5	Ontology Based Data Integration of NoSQL Datastores	Kiran V K, Dr.R.Vijayakumar	9th International Conference on Industrial and Information Systems (ICIIS), December 2014, IEEE Explore , DOI: 10.1109/ICIINFS.2014.7036545 Page(s): 1 - 6

B. Non-Peer Review Journals – Nil

C. E-Journals- Nil

D. Conferences Proceedings:

Bindu V R

International

1. Presented a research paper titled “*Boolean Operations on Free Form Shapes in a Level Set Framework*” at the International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
2. Presented a research paper titled “*[Volume Cutting of Medical Data Using Deformable Surfaces Modeled with Level Sets](#)*” at the Second International Conference on **IN**formation 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.

Ms. Anuj Mohamed

International

1. Presented a research paper titled “Enhancing HMM Based Malayalam Continuous Speech Recognizer using Artificial Neural Networks” at the International Conference on Computational Intelligence in Data Mining (ICCIDM 2014) during 20th-21st December 2014, held at VSSUT, Sambalpur, Odisha.
2. Presented a research paper titled “Connectionist Approach for Emission Probability Estimation in Malayalam Continuous Speech Recognition” at the Second International Conference on **IN**formation Systems **D**esign and **I**ntelligent **A**pplications – 2015 (INDIA 2015) during Jan8-9, 2015 organized by Faculty of Engineering, Technology and Management, University of Kalyani, West Bengal, India.

SCHOOL OF ENVIRONMENTAL SCIENCES

A. Peer Review Journals

Dr. C.T. Aravindakumar

1. M.P. Rayaroth, K.K. Nejumal, Subha Sasi, Usha K. Aravind, and C. T. Aravindakumar, *Identification of chlorophene in a backwater stream in Kerala (India) and its sonochemical degradation studies*, **Clean - Soil, Air, Water**, **2015**, *43*, 1338-1343
2. J. John, A. Reghuwanshi, U. K Aravind, C.T. Aravindakumar, Development and validation of a high-performance thin layer chromatography method for the determination of cholesterol concentration, **Journal of Food and Drug Analysis**, **2015** (in press)
3. Manoj P. Rayaroth, Usha K. Aravind and C.T. Aravindakumar, *Sonochemical Degradation of Coomassie Brilliant Blue: Effect of frequency, power density, pH and various additives*, **Chemosphere**, **2015**, *119*, 848-855
4. Akhil Gopalakrishnan, Mary Lidiya Mathew, Jisha Chandran, Appala Raju Badireddy, Judith Winglee, Mark Wiesner, C. T. Aravindakumar and Usha K. Aravind, *Sustainable Polyelectrolyte Multilayer Surfaces: Possible Matrix for Salt/dye Separation*, **ACS Appl. Mater. Interfaces**, **2015**, *7*, 3699-3707
5. Muna Sh. Yahya, N. Oturan, K. El Kacemi, M. El Karbane, C. T. Aravindakumar, M. A. Oturan, *Oxidative Degradation Studies on Antimicrobial Agent Ciprofloxacin by electro-Fenton Process: Kinetics and Oxidation Products*, **Chemosphere**, **2014**, *117*, 447-54
6. M. M. Sunil Paul, U. K. Aravind, G. Pramod, A. Saha, and C. T. Aravindakumar, *Hydroxyl Radical Induced Oxidation of Theophylline in Water: A Kinetic and Mechanistic Study*, **Org. Biomol Chem.** **2014**, *12* (30), 5611 – 5620

Dr.E.V.Ramasamy

1. Rhizofiltration of lead using an aromatic medicinal plant *Plectranthus amboinicus* cultured in a hydroponic nutrient film technique (NFT) system, Ignatius, A., Arunbabu, V., Neethu, J., **E.V.Ramasamy** Environ Sci Pollut Res. (**Springer** Online first July 05, 2014) DOI 10.1007/s11356-014-3204-1.
3. Sustainable greywater management with *Axonopus compressus* (broadleaf carpet grass) planted in sub surface flow constructed wetlands, V. Arunbabu, S. Sruthy, Ignatius Antony, and **E.V.Ramasamy**. Journal of Water Process Engineering 7 (2015) 153–160. <http://dx.doi.org/10.1016/j.jwpe.2015.06.004> 2214-7144/© 2015 Elsevier Ltd.
4. Vermicomposting of *Mucuna bracteata* – a Fast Spreading Troublesome Weed in Kerala, India, with Sruthi S Nair , Sibin Antony , **E.V.Ramasamy**. *Scientific Journal “Environmental Research, Engineering and Management” Environmental Research, Engineering and Management* 4(70): 5-13 ISSN 1392-1649 (print) *Aplinkos tyrimai, inžinerija ir vadyba* 4(70): 5-13, DOI: <http://dx.doi.org/10.5755/j01.arem.70.4.8552>

Dr. Mahesh Mohan

1. Sreeja R , Arun P.R., **Mahesh Mohan** and Pradeepkumar A.P. (2015). Groundwater Potential of a Fastly Urbanizing Watershed in Kerala, India: A Geospatial Approach. International Journal of Engineering Research ISSN:2319-6890(online), 2347-5013(print) Volume No.4, Issue No.10, pp : 578-581
2. Binish M.B., Sruthy S., **Mahesh Mohan** (2015) Effect of heavy metals (Pb, Cd, Cu) on the growth of sulphate reduction associated bacterium *Clostridium bifermentans* isolated from Cochin estuary, Southwest coast of India. International Journal of Marine Sciences,(Biopublisher, Canada) , 5(50):1-5
3. M. R. Sijimol, S. Jyothi, A.P. Pradeepkumar, M.S. Shylesh Chandran, and **Mahesh Mohan**. (2015). A Review on Fate, Toxicity and Remediation of Perchlorate, Environmental Forensics, **Taylor & Francis**
4. Bhagyalekshmi S., **Mahesh Mohan**, Sreedharan K., Ajaykumar B. (2015), Evaluation of the factors controlling the spatial distribution of soil piping: a case study from the Southern Western Ghats, India. Arabian Journal of Geosciences, **Springer** DOI 10.1007/s12517-015-1793-8
5. Joshy George, Ebhin Masto, Lal Chand Ram, T. B. Das, Tofan Rout; **Mahesh Mohan**. (2014). Assessment of human exposure risk from soil heavy metals near a coal fired power plant, Archives of Environmental Contamination and Toxicology, **Springer** DOI 10.1007/s00244-014-0111-x
6. Sijimol MR and **Mahesh Mohan**. (2014). Environmental Impacts of Perchlorate with Special Reference to Fireworks - A Review,

Dr. Syllas V.P.

1. **Syllas V.P.**, Mary Jaimol Antony, John C. Mathew and A.P. Thomas (2015). Distribution of phytoplankton in relation with water quality of Alappuzha- Changanasserry Canal of Kuttanad Wetland Ecosystem, Southern India. *International Journal of Current Research*. Vol. 7 (3). 13738 - 13743 pp.
2. Raisa Kabeer, Rinoy Varghese, Kannan V.M., John Richard Thomas and **V.P. Syllas** (2014). Rhizosphere bacterial diversity and heavy metal accumulation in *Nymphaea pubescens* in aid of phytoremediation potential. *Journal of Bioscience and Biotechnology* Vol. 3 (1) : 89 - 95 pp.
3. Jerry Mechery, Praveenkumar C.S., Deepa Nair K. and **Syllas V.P.** (2014). Biohydrogen production by microbial communities isolated from biogas plant slurry using glucose as substrate. *International Journal of Current Research*. Vol. 6 (12). 10942-10945 pp.
4. Jerry Mechery, Abin Varghese and Syllas V.P.. (2014). DPSIR based State of Environment for Velloor region in Kottayam District, Kerala, India. *The Environment- Journal of Environmental Sciences, University of Belgrade, Serbia*. Vol 2 (1): 7 -12.

B. Non-Peer Review Journals – Nil

C. E-Journals– Nil

D. Conference Proceedings

Dr. C.T. Aravindakumar

1. G. Akhil, M.M. Lidiya, C. T. Aravindakumar, U. K. Aravind, High performance Chitosan/ poly(acrylic acid) polyelectrolyte multilayer membrane for the treatment of textile effluents, *Proc-International conference on membrane based separations*, March 21-23, 2015, Baroda, p-93
2. C. Jisha, M. Muneer, U. K. Aravind, C. T. Aravindakumar, Transport studies of Lysine through CHI/PSS multilayers: Influence of feed and deposition variables, *Proc- International conference on membrane based separations*, March 21-23, 2015, Baroda, p-94
3. M. S. Baburaj, C. T. Aravindakumar, U. K. Aravind, CHI/PSS multilayer membrane matrix for the delivery of Riboflavin, *Proc-International conference on membrane based separations*, March 21-23, 2015, Baroda, p-96
4. C.T. Aravindakumar, Emerging Pollutants: Challenges in Detection and Treatment Technologies, *Proc-International Conference on*

Advances in Applied Sciences and Environmental Technology, ASET, 21-22, Feb.2015, Bangkok

5. M. S. Baburaj, U. K. Aravind, C. T. Aravindakumar, Treatment of textiles effluents using self-assembled multilayer membranes, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-32
6. P. R. Manoj, S. Subha, C. T. Aravindakumar, U. K. Aravind, Sonochemical degradation of Methylparaben, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-52
7. G. Akhil, M.M. Lidiya, C. Jisha, W. Judith, W. Mark, C. T. Aravindakumar, U. K. Aravind, Sustainable polyelectrolyte multilayer membrane for the treatment of textile effluents, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-60
8. V. J. Disha, C. T. Aravindakumar, U. K. Aravind, Enrichment of sulphate and phosphate from laundry waste water using low pressure multilayer membranes, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-68
9. M. M. Lidiya, G. Akhil, C. Jisha, W. Judith, W. Mark, C. T. Aravindakumar, U. K. Aravind, Removal of reactive dyes from dye-salt solution using Chitosan nano-membranes, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-70
10. M.T. Jain, C. T. Aravindakumar, U. K. Aravind, Effect of PSS monolayer on removal of a model beta blocker from water, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-74
11. S. Subha, P.R. Manoj, K.K. Nejumal, U. K. Aravind, Y. Oren, C. T. Aravindakumar, Screening of an Emerging contaminant (Chlorophene) in a backwater stream in Kerala (India) and its treatment – a sonochemical approach, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-81
12. K. K. Nejumal, D. Dineep, U. K. Aravind, C. T. Aravindakumar, Identification of emerging pollutants in Periyar River in Kerala, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-91
13. N. B. Shibin, R. Sreekanth, G. Pramod, U. K. Aravind, C. T. Aravindakumar, Oxidation reaction of hydroxynaphthoic acids in aqueous medium, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-111
14. P. R. Manoj, U. K. Aravind, C. T. Aravindakumar, Photocatalytic degradation of Lignocaine in aqueous suspension of TiO₂, *Proc- International Conference on Water: From Pollution to Purification*, Jan.23-26, 2015, Kottayam, p-125

15. C.T. Aravindakumar, Advanced Oxidation Processes for the degradation of Environmental Pollutants; *Proc- International Conference on Science and Environment (ICSE)*, 4-5 January, 2015, Bangkok, Thailand
16. C.T. Aravindakumar, *Energy and Environment*, Proc-UGC Sponsored State Level Seminar on Conservation of Energy, Water and Environment, Nov.20-21, 2014, Uzhavoor, Kerala
17. C.T. Aravindakumar, Green Chemistry: Fundamentals and emerging trends. Proc-National Seminar on Stimulating Concepts in Green Chemistry, Nov.13-14, 2014, Maliankara SNC, Kerala
18. R. Sreekanth, M. M. Sunil paul, T. K. Manoj kumar, U. K. Aravind, C. T. Aravindakumar, Oxidative degradation of carbaryl in aqueous solutions, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-45
19. K. K. Nejumal, P. R. Manoj, and Usha K. Aravind and C.T. Aravindakumar, Sonochemical Degradation of Para-Aminosalicylic acid in Aqueous Medium, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-62
20. K. K. Nejumal, P. R. Manoj, and Usha K. Aravind and C.T. Aravindakumar, Oxidative Degradation of Para-aminosalicylic acid in Aqueous Medium, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-62
21. K. K. Nejumal, P.R. Manoj, and Usha K. Aravind and C.T. Aravindakumar, Sono and Photochemical Degradation Studies of Isoniazid in aqueous medium, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-63
22. Sijumon V. A., Usha K. Aravind and C.T. Aravindakumar, Degradation of beta blockers by Fenton like reaction initiated by zero valent iron nano particle and UV-C light, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-72
23. Sunil Paul M. Menachery, Usha K. Aravind, Gopinathan Pramod, Abhijit Saha, and Charuvila T. Aravindakumar, Hydroxyl Radical Induced Oxidation of Theophylline in Water: A Kinetic and Mechanistic Study, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-98.
24. P. R. Manoj, Usha K. Aravind, C.T. Aravindakumar, Photocatalytic Degradation of Lignocaine in Aqueous Suspension of TiO₂, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-102
25. P. R. Manoj, V. Vidyanand, Usha K. Aravind, C.T. Aravindakumar, Ultrasound Assisted Mineralization of Cyanuric acid in Aqueous Medium: Combined Effect of •OH and Super Critical Water, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-102

26. P. R. Manoj, Usha K. Aravind, C.T. Aravindakumar, Sonochemical Degradation of Benzenesulfonic Acid, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-103
27. N. B. Shubin, R. Sreekanth, G. Pramod, Usha K. Aravind, and C. T. Aravindakumar, Reaction of Hydroxyl and Sulphate Radicals with HydroxyNaphthoic Acids, *Proc- Third International Conference on Advanced Oxidation Processes*, Sept.25-28, 2014, Munnar, p-111.

Dr.E.V.Ramasamy

1. Phytoremediation: Concepts and applications, Arunabau V, Avis Tresa Babu, **E.V.Ramasamy**. State Seminar on Environmental Management. 24-26 July 2014. Organised by B.C.M. College for women, Kottayam, Kerala
2. Sustainable consumption is the key for sustainable development, P.Padma, **E.V.Ramasamy**, Muralivallabhan, T.V., A.P.Thomas, State Seminar on Environmental Management. 24-26 July 2014. Organised by B.C.M. College for women, Kottayam, Kerala.
3. Changing trend in household consumption expenditure pattern of Kerala, P. Padma, **E.V.Ramasamy**, Muralivallabhan T Vand A.P Thomas, LAKE 2014: Conference on Conservation and Sustainable Management of Wetland Ecosystems in Western Ghats, 13 -15 November 2014, Sirsi, Karnataka.
4. Removal of Cadmium from water with Nutrient Film Technique (NFT), Arun Babu V, Ignatius Antony, **E.V. Ramasamy**, LAKE 2014: Conference on Conservation and Sustainable Management of Wetland Ecosystems in Western Ghats, 13 -15 November 2014, Sirsi, Karnataka
5. Sustainable energy consumption: Role of education, teachers and students; National Symposium on Environment (NSE - 19), Dec 11- 13, 2014, School of Environmental Sciences, M.G.University, Kottayam
6. Potable water: accessibility to rural and urban communities - Kerala scenario; International conference on water from pollution to purification', International conference on Water from pollution to purification. 23-26 January 2015. Organised by Centre for Environment Education and Technology (CEET), Kottayam, Kerala. School of Environmental Sciences, M.G.University, Kottayam
7. Arun Babu V. and E.V. Ramasamy (2015). Treatment of Landfill leachate using Nutrient Film Technique. International conference on Water from pollution to purification. 23-26 January 2015. Organised by Centre for Environment Education and Technology (CEET), Kottayam, Kerala. 41-42pp
8. Arunbabu V., Simi Jose, Avis Tresa Babu, Ignatius Antony, Ramasamy E.V. (2014). Cadmium Removal from Wastewater

Using *Pueraria phaseoloides*: An Emerging Weed in Kerala. Workshop cum Nineteenth National Symposium on Environment (NSE - 19). 11-13 December, 2014. Organised by School of Environmental Sciences, Mahatma Gandhi University, Kottayam. 131-132pp.

9. Arun Babu V., Ignatius Antony, Rajeev M. R., Ramasamy E.V. (2014). Treatment and reuse of greywater for sustainable water management: Issues, challenges and potentials. Kerala Environment Congress 22-23 August 2014. 129-134pp.

Dr. Mahesh Mohan

1. Sijimol, M. R., Renju Kuttappan and Mahesh Mohan (2014) Fireworks: A disaster and an environment pollution source. In the proceedings of 2nd Diasaster Risk and Vulnerability Conference. A.P. Pradeepkumar, F.J. Behr, F.T. Illiyas and E. Shaji (Editors). Pg. No. 242-246. ISBN 9788192344928
2. Navya Cherian, Thafna KK, Kannan VM, Mahesh Mohan. 2014. Mercury contamination in agricultural wetland ecosystems-a case study from Kerala. Lake 2014.
3. Navya Cherian, Thafna KK, Kannan VM, Mahesh Mohan. 2014. Mercury contamination in a unique tropical agricultural wetland ecosystem. Proceedings of Workshop cum National Symposium on Environment (NSE19), Kottayam, Kerala.
4. M. R. Sijimol, D. Dineep, Mahesh Mohan. 2014. Perchlorate contamination of bottled water in Kerala, Proceedings of Workshop cum National Symposium on Environment (NSE19), Kottayam, Kerala.

Dr. Syllas V.P.

1. Praveen Kumar C.S. and **Syllas V.P.** (2015). An experimental study on the cultivation of mixed microalgal culture and its potential for lipid production. Presented at *11th Kerala Environment Congress, Kottayam* (6 - 8 May 2015).
2. Ambily V. and **Syllas V.P.** (2015). An Experimental Study on the Lipid Production by *Dunaliella sp.* and *Chaetoceros sp.* - A Bioenergy Approach. Presented at *11th Kerala Environment Congress, Kottayam* (6 - 8 May 2015).
3. Raisa Kabeer and **Syllas V.P.** (2015). Heavy Metal Tolerance Pattern and Antibiotic Susceptibility of *Chromobacterium sp.* isolated from the Rhizosphere of *Eichhornia crassipes*. Presented as Poster at *11th Kerala Environment Congress, Kottayam* (6 - 8 May 2015).

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT STUDIES

A. Peer Review Journals

M S John

1. **M S John**, Nonviolent Resistance to Nuclear Power Plants in South India", *Peace Review*, 26(3), 2014 (Taylor & Francis).
2. **M S John** "Women Component Plan at the Local Level in Kerala: Does it Live up to its Promise?", *Indian Journal of Gender Studies* (Sage, New Delhi), Vol. 21(2), June 2014.
5. **M S John** 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* (Vol. 65, No. 2,(2014)

Manjusha K A

1. "Non -Violent Struggle for Self Rule: A Study on the Bamboo Revolution of the Tribals of Mendha Lekha District in Maharashtra" in the *Galaxy International Inter Disciplinary Journal*, ISSN 2347-6915, Vol.2(11), November, 2014. Page No. 21-33.(**Research Impact Factor 2014: 1.080**)
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
3. "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.

Sandhya R S

1. Published a paper "Nirmala Nagaram, Nirmala Bhavanam – A model for decentralized and community based solid waste management system" in the *International Journal of Research in Social Sciences* (February, 2015)

- B. Non-Peer Review Journals – Nil
- C. E-Journals– Nil
- D. Conference Proceedings–Nil

SCHOOL OF INDIAN LEGAL THOUGHT

A. Peer Review Journals

Dr. George Joseph

1. Published an article Protection of Human Rights and Human Life Values in Indian Laws. A Review(Journal of Indian Legal Thought, Volume 9)

Dr. M C Pramodan

1. "Internet and Telemedicine", 4 *Social Science Reporter* 42-49 (2014)
2. "Privacy and Confidentiality in Telemedicine", 7 *Acharya Nagarjuna University Journal of Law*107-127 (2014).

Dr.Sheeba Pillai

1. Published a paper titled 'Reservation to Human Rights Treaties-A Defeating Factor' in Vol 9, Journal of Indian Legal Thought,(ISSN 2249-9989)
2. Published a paper titled 'Reinventing the CEDAW-Need of the hour' in the Book published by Tamil Nadu Dr Ambedkar Law University, August 2014.

Dr. Rajeesh A P

1. Published an Article in the journal of Indian Legal thought (ISSN 2249 – 9989) Volume 9, under the title 'Classification of Contempts under Civil and Criminal Heads- Rationale and Need'.

Dr. Jasmine Alex

1. "Implementation of CEDAW, 1979 in India through Protection of Women from Domestic Violence Act 2005 and Sexual Harassment of Women at Workplace(Prevention, Prohibition and Redressal) Act 2013: A Critique" in the International Seminar Proceedings on Human Rights: National and International Perspectives organised by NUALS, Kochi during 19-21 March 2015

Sri. Sunil Kumar Cyriac

1. Volume.9 Journal of Indian Legal Thought 2011- published in 4th February 2015-Title: 'Exculpatory Evidence: An Insoluble dilemma.

B. Non-Peer Review Journals – Nil

C. E-Journals– Nil.

D. Conference Proceedings-Nil

SCHOOL OF INTERNATIONAL RELATIONS AND POLITICS

A. Peer Review Journals

Prof(Dr) K.M. Seethi

1. K.M. Seethi (2015): "Political Islam, Violence and Civil Society in Pakistan," *Indian Journal of Politics and International Relations*, Vol.5-7.
2. K.M. Seethi (2015): "The Global South and Non-Alignment: Challenges of Indian Diplomacy in the Gulf," *Journal of Political Economy and Fiscal Federalism*, Vol.1.
3. K.M. Seethi (2015): "Pakistan: State, Civil Society and Political Islam," in Mathew Joseph C. (ed.), *Pakistan and the Muslim World*, New Delhi: Manohar.
4. K.M. Seethi (2015): "Non-Proliferation Dynamic: American Soft-Containment of Iran and India," *Countercurrents*, 26/7
5. K.M. Seethi (2015): "Debating Colonial Hang-over," *Countercurrents*, 26/7
6. K.M. Seethi (2014): "Pakistan School Killing: South Asia's Killing Fields," *Tehelka*, 19 December 2014.
7. K.M. Seethi (co-author) (2014-15): "marginalisation, Identity Politics and New Social Movements," *Indian Journal of Politics and International Relations*, Vol.5-7.
8. K.M. Seethi (2014): "A Jurist Extraordinaire," *Tehelka*, 20 December 2014.
9. K.M. Seethi (2014): "Negotiating for Security in South Asia," in C.Vinodan (ed.), *South Asia in the Globalised World*, New Delhi: New Century Publications.
10. K.M. Seethi (2014): "Law Proposes, and Politics Disposes: Questions Beyond/Beneath 'Checks and Balances' " *Countercurrents*, 3 September.

11. K.M. Seethi (2014): "Conversion/Reconversion: Is the civil Society in Kerala Poised to become a "Testing Lab"? *Countercurrents*, 26 December.

Dr. C.Vinodan

1. C.Vinodan & Rajesh Kuniyil (2015): "Energy Security and Climate Change: Problems and Prospects in India-Australia Relations," *ISDA Journal*, Vol.10.

Dr. A.M. Thomas

1. A.M. Thomas(2015): " James Madison and the Making of the Constitution of the United States," *Indian Journal of Politics and International Relations*, Vol.5-7.
2. A.M. Thomas(2014): "Syriac," in Sukrita Paul Kumar, (ed.) *People's Linguistic Survey of India, Vol. 6: Arabic and Allied Languages*, New Delhi: Orient BlackSwan.

Dr. Girishkumar R

2. Girishkumar R. (2014): "India's Innovation Systems: Changing Structure in the Post-TRIPS Regime", C.Vinodan (ed.), *South Asia in a Global Context*, New Delhi: New Century Publishers.

Dr. Lirar P

1. Lirar P. (2014-15): "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.
2. Lirar P. (2014): "Arab Spring and the Unending Population Displacement in West Asia: An Analysis of the Impact of Syrian Refugees in Jordan," in Basheer Mohammed K. (ed) *Society, Culture and Politics in West Asia: Post Arab Spring Dynamics*, Thiruvananthapuram: University of Kerala.

- B. Non-Peer Review Journals – Nil**
- C. E-Journals– Nil.**
- D. Conference Proceedings-Nil**

A. Peer Review Journals

Dr . P S Radhakrishnan

1. "New Generation Cinemaye Enthnu Bhayakkanam"/ Grandhalokam June 2015
2. "Himsayude Abodhakamanakal"/ Grandhalokam October 2015
3. "Daarshanikamaya Aanubhoothi saakalyam"/Keli Dwaimasika 2015 June

Dr. Jose K Manuel

1. Title : " Cinemayum Punaravishkaaravum"
Journal : Bhasha Saahiti
Published by : Dept of Malayalam , University of Kerala
Issue : Vol 26N-1-4"Jan/Dec
2. Title : " Yuva Shareerangalude Aakhosham : New Generation Cinema"
Journal : Misbah
Published by : M E S College , Nedumkandam
Issue : Jan- June 2014 : Book 9 , Vol 9
3. Title : "Malayala Cinemayude Maarunna chuvarezhuthukal "
Journal : Researcher
Published by : School of Distance Education , University of Kerala
Issue : N-1 , Vol 1, May 2014
4. Title : "Muttathuvarkkiyude Kili Malayala Cinemayil Chilakkunnu"
Journal : Discourse
Published by : St. Xavier's College for Women , Aluva
Issue : Vol 2 , No 1 March 2014
5. Title : "Punaravishkaaram : Samskaravum Rashtriyavum"
Journal : Research Lines
Published by : Devamatha College , Kuravilangadu
Issue : Vol VII No.1 June 2014
6. Title : "Mobile Phone : Sankethikatha, Samskaram , Bhasha"
Journal : Cognitive Discourses
Issue : Vol 2 , Issue1 July 2014
7. Title : "Janathipthyathinte aakhoshathinu Saahithyathnte Kaiyoppu"

Journal : Saahithya Chakravalam
Published by : Kerala Saahitya Academy
Issue : June 2014

Dr. Saji Mathew

1. 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, ed.by Beth A Kattleman and Magdalena odalska.Oxford: Inter-Disciplinary Press, 2014.

- B. Non-Peer Review Journals – Nil
- C. E-Journals- Nil.
- D. Conference Proceedings-Nil

SCHOOL OF MANAGEMENT & BUSINESS STUDIES

A. Peer Review Journals

Sulaiman.E

1. ‘Micro Finance in India-An Overview’, UGC Sponsored National Seminar, 30 & 31st October 2014, K.E. College, Mannanam, Published by **PRATIBHA Publishers, Changanacherry, ISBN: 978-81-907782-99**

Dr. Johney Johnson

1. Radhika.P.C & Johney Johnson (2014), "Measuring Domestic Tourist Satisfaction with multiple destinations attributes of Kerala", Journal of Exclusive Management Science, Nov 2014,pp 37-47
2. Sonia Katherin Mathew and Johney Johnson(2014), “An Empirical Study to Predict the Self-Employment Intention of Engineering Students Using EAO Model in Kerala” Commerce Spectrum-A Half-Yearly Journal published by Post Graduate and Research Department of Commerce, St. Peter’s College, Kolenchery, Ernakulam, Kerala.Vol.2, No.3, June 2014, ISSN 2321-371X.
3. Radhika.P.C & Johney Johnson(2014),” An initiative for adopting sustainable Business strategies in Tourism industry-Lessons from Kerala Tourism”, Books of Abstract,Second PAN-IIM World Management Conference, IIMK, Nov 05-08.
4. Sonia Katherin Mathew and Johney Johnson(2014), “An Empirical Study to Predict the Self-Employment Intention of Engineering

Students Using EAO Model in Kerala, India” Conference conducted by Australian Academy of Business and Social Sciences (in partnership with The Journal of Developing Areas),(2014)held in Malaysia. ISBN 978-0-9925622-0-5.

5. Tijo Thomas and Johney Johnson (2014) “Impact of Celebrity Credibility on Consumer Intention for Behavioral Change: A Study on Celebrity Endorsed Social Advertising” e-proceedings of Third International Marketing Conference 2014, IIM Calcutta
6. C V Lolitha and Johney Johnson (2014) “Employee Engagement: Emerging Concept for Attrition Management”, Proceedings of 3rd International Conference on Managing Human Resources at the Workplace , ISBN 978-93-83302-01-7
7. C V Lolitha and Johney Johnson (2014) “Management Education in India :An Overview”, Proceedings of the UGC Sponsored National Seminar on Management Education in India : Changing Role And New Strategies, Published by Department of Business Administration , MES College, Marampally, Aluva , Dec 2014, pp. 185-196, ISBN 13978-81-923985-7-0

Dr. Santhosh P Thampi

1. Santhosh P Thampi ,Effects of Job related factors as motivators on Performance and Satisfaction of employees in Information Technology Firms, International Interdisciplinary Journal of Scientific Research, ISSN: 2200-9833, Vol. 1 No. 1, Page 124 -135, September, 2014.
2. Santhosh. P. Thampi, Meera M S, Effects Of Organizational Factors As Motivators On Performance And Morale Of Employees In Information Technology (IT) Firms, Second PAN – IIM World Management Conference, November 05- 08, 2014
3. Santhosh. P. Thampi, John K Babu, Buyers’ Expectations about Features & Support Services of Dwelling Units, Social Environment and Neighborhood Facilities in the Purchase of Villas and Apartments in Kerala, Second PAN – IIM World Management Conference, November 05- 08, 2014, P.P 180.
4. Meera M S, Santhosh P Thampi, Effects of Job related factors as motivators on Performance and Satisfaction of employees in Information Technology Firms, International Interdisciplinary Journal of Scientific Research, ISSN: 2200-9833, Vol. 1 No. 1, Page 124 -135, September, 2014.
5. John.K. Babu, Santhosh. P. Thampi, Expectation of Buyers About the Support Services of Villas and Apartments provided by Builders in Kerala, National Seminar on Moulding Managers for Mankind, School of Management Studies, CUSAT, Cochin, September 18 – 19, 2014

6. John.K. Babu, Santhosh. P. Thampi, Perception of Buyers in Kerala About Neighbourhood Facilities and Support Services in the Purchase of Apartments in Kerala, International conference on Trends and Challenges in Indian Business Management, PLACITUM 2014, Sree Narayana Gurukulam College of Engineering & Journal of Exclusive Management Sciences, Kolenchery 7-8 November 2014
7. Jils Baby Emmanuel, Santhosh. P. Thampi, Emotional Intelligence and Job performance of managers in Public Sector Enterprises in Kerala, National Seminar on Moulding Managers for Mankind, School of Management Studies, CUSAT, Cochin, 18-19 September 2014.
8. Krishna Kumary M R, Santhosh. P. Thampi, Effect of Information Technology on Satisfaction of Customers of Select Housing Finance Providers In Kerala, National Seminar on Moulding Managers for Mankind, School of Management Studies, CUSAT, Cochin, 18-19 September 2014.
9. Meera M S, Santhosh. P. Thampi, Non monetary motivators and employee performance in Information Technology (IT) firms in Kerala, National Seminar on Moulding Managers for Mankind, School of Management Studies, CUSAT, Cochin, 18-19 September 2014.

Dr. Siby Zacharias

1. Siby Zacharias, 'Micro Finance in India-An Overview', UGC Sponsored National Seminar, 30 & 31st October 2014, K.E. College, Mannanam, Published by *PRATIBHA Publishers, Changanacherry, ISBN: 978-81-907782-99*
2. 'A Study on the impact of Mentoring on Employees Turnover Intentions', Trends and Challenges in Indian Business Management, ISBN: 978-93-83241-60-6, Published by Archers & Elevators Publishing House, Bangalore, International Conference, Placitum November 6 & 7, 2014, SNGC, Kolenchery, Kerala .
3. Impulse Buying among Women of Kottayam Municipality", International Conference on Evidence Based Management 2015 (ICEBM 2015), Birla Institute of Technology & Science Pilani, Pilani Campus, March 20-21, 2015, Siby Zacharias & Joshy John; ISBN 978-93-84935-18-4, *Excel Publishing House*, New Delhi 110 070

Non-Peer Review Journals – Nil

E-Journals– Nil.

F.Conference Proceedings

SCHOOL OF PEDAGOGICAL SCIENCES

A. Peer Review Journals

Dr. Celine Pereira

1. Role of SEED Project in propagating Environmental Awareness for environmental Awareness for environment conservation – A study on Secondary School Students of Kerala in **Journal of Research and Methods in Education**, Vol.14, Issued 4, July – August 20104 ISSN 2320-737x
2. Instruction based on Metacognitive Process and Attitude towards Science among Secondary School Students in **Journal Pedagogics**. Vol. X and XI No.1, Sept 2014 ISSN 2229-7618
3. Effectiveness of Activity Oriented Methods on the Retention Capacity in Biology of Secondary School Students grouped into small groups and large groups in **Avila Journal of Educational Research**, Vol.III, No.1, Dec.2014, ISSN 2320-0707
4. Relationship between Affective Domain Processes and Emotional Maturity in **Journal of School Planning and Management Timonia** Vol. 4, No.4, March 2015

Dr. Jaya Jaise

Sl. No.	Title with Page Nos.	Journal	ISSN/ISBN No.
1	Effect of Drama Activities on Speaking Skill in English among Primary School Students, pp. 19-23 & 14	Journal of English Language Teachers' Interaction Forum (ELTIF), Vol. VI 3, July-September 2015	ISSN: 2230 -7710
2	Enhancing Students' Attitude towards English Poetry through Educational Courseware, pp. 57-60	Research Nebula(International Journal), Vol. IV.Issue II, July 2015	ISSN: 2277-0817 Impact Factor: 0.785(GIF) 1.315 (ISRA)
3	Educational Courseware on English Poetry: An Effective Means to Enhance Appeal towards Video Poems at Secondary School Level, pp. 18-19	Research Tracks (International Journal), Vol. II, Issue II, July 2015	ISSN: 2347-4637 Impact Factor: 0.711

4	Computer Technology Skills: Awareness among Post Graduate Teacher Educands of Kerala, pp. 43-46	Edufocus, Vol. 9, No.1, June 2015	ISSN: 2347-646X
5	Environmental Elements in the poems of K. Satchidanandan, pp. 2827-2833	International Journal of Scientific Research and Education, VI.3, issue1, January 2015	ISSN: 2321-7545 (E) Impact Factor:3.599
6	Potential of Films in Appreciation of English literature, pp. 62-67	Pedagogics, Vol. 10 & 11, No. 1 September 2014	ISSN: 2229-7618

Dr. Minikutty A

1. 'Spatial Thinking Skills in Mathematics: A Study among Secondary School Students" in "Journal of Educational Research and Extension", Vol.51 (2), April-June 2014 (issn 0973-6190) PP1-6
2. "Mental Rotation Skills as a Correlate of Achievement in Geometry" in the Journal "Edufocus". VVol. III, No.1 June 2014 (ISSN 2347-646X).pp48-51
3. "Metacognitive Awareness in Teaching of Student Teachers at Secondary level" in the Journal 'Frontiers in Education and Research', VI.3, Issue 2, July 2014. (ISSN 2277-3576).pp15-22
4. Lifeskills and Maximising Potentials of Youth. Proceedings of the 5th International Conference on Life Skills Education. Radhakrishnan nair, Solomon (Eds.) New Delhi: Excel India Publishers. Lifeskill Mathematics: A Study among Secondary School Students. Pp 293-296
5. "Impact of Social Intelligence on Social Awareness in the context of Development Education" in the Journal "Pedagogics", Vol. X & XI, No.1, September 2014 (ISSN 2229-718). Pp68-73
6. "Effectiveness of an Instructional Strategy based on Abacus "Techniques on Achievement and Numerical Ability in Mathematics at Upper Primary Level Students of Kerala" in the Journal "International Journal Of Scientific Research and Education". Vol.2, No 08 (2014) Pages 1694-1700||August-2014||ISSN(E): 2321-7545
Webssite: <http://ijsae.in>

7. "Effectiveness of Metacognitive Affective Model of Self Regulated Learning (MASRL) on Achievement in Biology at Higher Secondary Level" in the Journal "Gurujyothi Research and Reflections" Vol.9, No.1, January 2015, (ISSN 0976-0865), RNI No. KERENG 20021945.pp9-15
8. Geographic Information System: A Constructivist Tool for Geography Classroom in the Journal "Educational Extracts". Vol. III, Issue 1, January 2015 issn 2320-7612, RNI No. KERENG 2013/48939 pp99-107
9. Extent of Application of ICT in Teaching-Learning Process: Perception of Secondary School Students in the Journal "Aarhat Multidisciplinary International Education Research Journal (AMIER)", Vol.IV, Issue II, February 2015
10. ICT Literacy: A Study among Higher Secondary School Students in the Journal "Paripex - Indian Journal of Research", Vol.4, Issue, 4 April 2015 ISSN-2250-1991 DOI:1015373/22501991 Impact Factor - 3.4163 pp9-11
11. Promoting Scientific Interest: A Comparison between MASRL Model and Activity Method of Teaching in the Journal "Research Demagogue", Vol.1, Issue II, April 2015 ISSN2350-1081 pp55-57
12. Perceived Usefulness and Achievement in Mathematics": A Study among Higher Secondary School Students in the Journal "Teacher, Learner And Society", Vol.12, No.01, June 2015 ISSN 2319-1709-23 pp56-62

Dr. Sajna Jaleel

Journals

1. Jaleel, S. and Vergis, A.M. (2015). Knowledge Creation in constructivist Learning. Universal Journal of Educational Research, Vol. 3(1),pp. 8-12. DOI:10.13189/ujer.2015.030102. Impact Factor: 5.00
2. Jaleel, S. and Titus, B.(2015). Effectiveness of Gaming Strategy on Mathematical Creativity of Students at Secondary Level. Indian Journal of Applied Research. Vol 05, 10, pp 35-37 ISSN No.2249-555X. doi:10.15 313/2249555X. Impact Factor:3.6241
3. Jaleel, S. and Titus, B.(2015). Relationship between Mathematical Creativity and Achievement of students at Secondary Level. International Journal of Informative and Futuristic Research . Vol 3/E1/029. pp 113-117. ISSN:2317-1697. Impact factor:4.164

4. Jaleel, S. and Titus, B.(2015).Development of Mathematical Creativity in India through ages: A historical sketch of Post Independent period. International Journal of Applied Research. 1(12),891-894. Impact factor(ISRA):5.2
5. Jaleel, S. (2015). Relationship between Mathematical Thinking and Achievement in Mathematics among Secondary School Students. Paripex-Indian Journal of Research,4(11), 16-18.doi10.15373/22501991.ISSN:2250-1991. Impact Factor-3.4163
6. Jaleel,S.(2015). Effectiveness of e-content in Mathematics on Mathematical Thinking among Secondary School Students. International Journal of Recent Scientific Research, 7(11), 7315-7318.ISSN 0976 – 3031
7. Jaleel,S. and Nair, A.B. (2015). Gender Difference in Logical Mathematical and visual-spatial Intelligence among Higher Secondary School Students in Kottayam District. Indian Journal Applied of Applied Research, 5(11),19-21,doi:10.15373/2249555X Impact Factor:3.6241

Conference proceedings

1. Jaleel, S. and Shabeela, V.V.B.(2015). Awareness of social networking sites of computer science students at higher secondary level. In St. Xavier Alpphonse S.J.(Ed.), Proceedings of the two day International conference on accompanying social Networking in teachers Education(pp.272-276).Chennai: Loyola College of Education(pp.272-276).Chennai: Loyola College of Education.ISBN-978-81-927641-2-2.
2. Jaleel,S. and Anuroofa, O.M.(2015) ICT based Transformation in Higher Education: Implications and Challenges. In T.C.Thankachan(Ed.), Proceedings of the UGC sponsored Two Day National Seminar on Vision 2030-Contributions of Educational researches on National Development.(pp.265-270).Pala:St.Thomas College of Teacher Education.ISBN 978-81-927201-4-2.

A. Peer Review Journals

Dr. C Sudarsanakumar

1. Spectroscopic studies on the interaction of cysteine capped CuS nanoparticles with tyrosine. S.Prasanth, D.R.Raj, T.V.V.Kumar and C.Sudarsanakumar AIP: Solis State Physics: (2015) 1665(1), 40010.
2. R. Reshmi Krishnan, R. Sreeja Sreedharan, S.K. Sudheer, C. Sudarsanakumar, V. Ganesan, P. Srinivasan, V.P. Mahadevan Pillai Effect of tantalum doping on the structural and optical properties of RF magnetron sputtered indium oxide thin films Materials Science in Semiconductor Processing (2015) 37, 112-122.
3. Highly Textured and Transparent RF sputtered Eu₂O₃ Doped ZnO films RS Sreedharan, V Ganesan, CP Sudarsanakumar, K Bhavsar, R Prabhu, Nano Reviews 2015, 6. Doi:10.3402/nano.v6.26759.
4. Rithesh Raj, D, Prasanth S, Vineeshkumar T V and C.Sudarsanakumar Ammonia sensing properties of tapered plastic optical fiber coated with silver nanoparticles/PVP/PVA hybrid Optics Communications (2015) 340, 86-92.
5. Prasanth. S, Irshad. P, Rithesh Raj D, Vineeshkumar T V, Reji Philip and C.Sudarsanakumar. Nonlinear optical properties and fluorescence quenching behaviour of PVP capped ZnS nanoparticles codoped with Mn²⁺ and Sm³⁺. Journal of Luminiscence (2015) 166, 167-175.
6. S.Prasanth, M. Varughese, N. Joseph, P. Mathew, T.K. Manojkumar and C.Sudarsanakumar. Crystal Structure, FT-IR, FT-Raman, ¹H NMR and Computational study of Ethyl-2-[(Z)-3-(4-chlorophenyl)-3-hydroxy-2-propene-1-thione]amino} acetate. J. Molecular Structure (2015) 1081, 366 – 374.
7. R.S. Sreedharan, V. Ganesan, C. Sudarsanakumar, R. Prabhu and V.P.M Pillai Highly Transparent and Luminescent Nanostructured Eu₂O₃ Doped ZnO films IOP: Materials Science and Engineering (2014) 64 (1), 012027.

Prof(Dr.)N.V. Unnikrishnan

1. T.V.Vineeshkumar, D. Rithesh Raj, S. Prasanth, N.V.Unnikrishnan, R.Philip and C.Sudarsanakumar Structural and optical studies of Zn_{1-x}Cd_xS quantum dot synthesized by in situ techniques in PVA matrix. *Optical Materials* (2014). 37, 439 – 445
2. Spectroscopic investigation on tunable luminescence by energy transfer in Tb_{2-x}Sm_x (MoO₄)₃ nanophosphors Kamal P Mani, G Vimal, PR Biju, **Cyriac Joseph**, NV Unnikrishnan, MA Ittyachen *Optical Materials* 2015 (42)237-244
3. Kamal P Mani, G Vimal, PR Biju, **Cyriac Joseph**, NV Unnikrishnan, MA Ittyachen *ECS Journal of Solid State Science and Technology* 2015, 4 (5), R67-R71
4. Structural and Spectral Investigation of Terbium Molybdate Nanophosphor Kamal P Mani, G Vimal, PR Biju, **Cyriac Joseph**, NV Unnikrishnan, MA Ittyachen *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (Accepted for publication)
5. Influences of Annealing Temperature and Doping Concentration on Microstructural and Optical Properties of CeO₂:Sm³⁺ Nanocrystals G Vimal, KP Mani, PR Biju, **Cyriac Joseph**, NV Unnikrishnan, MA Ittyachen *Acta Metallurgica Sinica (English Letters)* 2015
6. Investigations on spectroscopic properties of Er³⁺-doped Li-Zn fluoroborate glass S Thomas, M.S. Sajna, R George, S N Rasool, **Cyriac Joseph**, N.V. Unnikrishnan *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 2015 (148) 43-48
7. Spectroscopic properties of Er³⁺ ions in multicomponent tellurite glasses MS Sajna, S Thomas, KAA Mary, **Cyriac Joseph**, PR Biju, NV Unnikrishnan *Journal of Luminescence* 2015 (159) 55-65
8. Sm³⁺-doped fluorophosphate glass: Formation of Ag nanoparticles via Ag⁺/K⁺ ion exchange and their effects on optical and dielectric properties S Thomas, MS Sajna, SN Rasool, M Gopinath, **Cyriac Joseph**, N.V. Unnikrishnan *Optical Materials* 2015 (39) 167-172
9. Structural and Spectroscopic studies of Eu³⁺/ZnO: Bi₂O₃-SiO₂ matrices, Sajna M. S., VijiVidyadharan, Ann Mary K. A., P. R Biju*, N. V. Unnikrishnan, *Asian J. of Physics* (special issue). (in Press)

10. Kamal P Mani; Vimal George; **Biju P Ramakrishnan**; Cyriac Joseph; Unnikrishnan N Viswambharan; Ittyachen M Abraham, Synthesis and Photoluminescence Studies of One Dimensional Sm₂MoO₆ Nanofibers Derived from Electrospinning Process. **J. Mater. Res Tech. (in press)**
11. VijiVidyadharan, Prathibha Vasudevan, Karthika S, Cyriac Joseph, N V Unnikrishnan & **P R Biju**, Structural, Optical and AC electrical properties of Ce³⁺ doped TiO₂-SiO₂ matrices, Journal of Elec Materi (2015) DOI: 10.1007/s11664-015-3724-6.
12. Sajna M S, VijiVidyadharan, Ann Mary K A, N V Unnikrishnan and P R Biju, Vol. 24, No 1 (2015) Structural and Spectroscopic studies of Eu³⁺/ZnO: Bi₂O₃-SiO₂ matrices,
13. VijiVidyadharan, Sreeja E, Saritha K Jose, Cyriac Joseph, N V Unnikrishnan and **P R Biju**, Spectroscopic and Photoluminescence Characterization of Dy³⁺ in Sr_{0.5}Ca_{0.5}TiO₃ Phosphor. (Accepted in Luminescence: Biological and Chemical Luminescence)
14. Synthesis and luminescence characterization of Pr³⁺ doped Sr_{1.5}Ca_{0.5}SiO₄ phosphor V Vidyadharan, MS Sajna, KP Mani, **Cyriac Joseph**, NV Unnikrishnan, PR Biju Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 2014 (133) 767-772
15. Structural studies and luminescence properties of CeO₂: Eu³⁺ nanophosphors synthesized by oxalate precursor method G Vimal, KP Mani, PR Biju, **Cyriac Joseph**, NV Unnikrishnan, MA Ittyachen Applied Nanoscience 2014 1-10
16. Growth and spectroscopic properties of samarium oxalate single crystals G Vimal, KP Mani, G Jose, PR Biju, **Cyriac Joseph**, NV Unnikrishnan, MA Ittyachen Journal of Crystal Growth 2014 (404) 20-25
17. Synthesis, structural and spectroscopic investigations of nanostructured samarium oxalate crystals G Vimal, KP Mani, PR Biju, **Cyriac Joseph**, NV Unnikrishnan, MA Ittyachen Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 2014 (122) 624-630
18. Plasmonic and Energy Studies of Ag Nanoparticles in Silica-Titania Hosts KVA Kumar, MS Sajna, V Thomas, **Cyriac Joseph**, NV Unnikrishnan Plasmonics 2014 (9), 631-636

19. Arun Kumar K V, Sunil Thomas, Ann Mary, Cyriac Joseph, **Biju P R**, *N V Unnikrishnan*, Dielectric and ac conductivity studies of ZnO/Eu³⁺: titanosilicate matrix" AIP Conf. Proc. **1576**(2014)209
20. KarthikaS, PrathibhaVasudevan, Ann mary,VijiVidyadharan, **Biju P.R,Unnikrishnan N.V**,Structural and spectroscopic studies of Sm³⁺/Cdsnanocrystallies in sol gel TiO₂-ZrO₂ matrix, Journal of electronic materials,43(2014)447
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- D. Conference Proceedings-Nil**

SCHOOL OF SOCIAL SCIENCES

A. Peer Review Journals

Dr. KT Rammohan

1. Co-authored with Abida Ramamakrishnan, ‘Sambadsastrapinte Indian Charitham’ (History of economics in India) in TV Madhu. Ed. *Marx Vaayanakal* (Marx Readings). Kozhikode: Raspberry Books. 2015. 417-432.
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- C. E-Journals– Nil.**
- D. Conference Proceedings-Nil**

SCHOOL OF TOURISM STUDIES

A. Peer Review Journals

Dr. Robinet Jacob

1. **Medical Tourism and Medical Tourists: A Conceptual Analysis (Dec 2014)**, Rajagiri Journal of Social Development, ISSN 0973-3086.

- B. Non-Peer Review Journals – Nil**
- C. E-Journals– Nil.**
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40. G. Akhil, M.M. Lidiya, C. T. Aravindakumar, U. K. Aravind. High performance Chitosan/ poly (acrylic acid) polyelectrolyte multilayer membrane for the treatment of textile effluents, Proc-International conference on membrane based separations, p-93. Baroda, March 21-23, 2015.
41. Jisha, M. Muneer, U. K. Aravind, C. T. Aravindakumar. Transport studies of Lysine through CHI/PSS multilayers: Influence of feed and deposition variables, Proc- International conference on membrane based separations, Baroda, p-94. March 21-23, 2015.
42. M. S. Baburaj, C. T. Aravindakumar, U. K. Aravind. CHI/PSS multilayer membrane matrix for the delivery of Riboflavin, Proc-International conference on membrane based separations, Baroda, p-96. March 21-23, 2015.

Dr. G Christopher

1. Christopher G. Ethnozoological aspects of Kani Tribals in the Agasthiyamalai region of the Western Ghats, Southern India. Society of Ethnobiology Annual conference, in Santa Barbara, CA May 6-9, 2015.

National conference proceedings

Dr. Thomas A.P

1. Babu Padmakumar, N.P.Sreekanth, V.Shanthi Prabha, Joby Paul, Toms Augustine, K.K. Jayasooryan, K. Sreedharan, M.Rameshan, Rinoy Vargheese, V.Arun Babu, Mahesh Mohan, E.V Ramasamy, A.P Thomas. Forest tree biomass and carbon sequestration:a case study from Periyar tiger reserve, Kerala. International conference on climate change & the developing world held at CMS College, Kottayam, 21-25 January, 2015.
2. Babu Padmakumar, N.P.Sreekanth, V.Shanthi Prabha, Joby Paul, Toms Augustine, K.K. Jayasooryan, K. Sreedharan, M.Rameshan, Rinoy Vargheese, V.Arun Babu, Mahesh Mohan, E.V Ramasamy, A.P Thomas. Estimation of above ground biomass and carbon stocks in tropical dry forests of Chinnar Wildlife Sanctuary Kerala.27th Kerala Science Congress, Alappuzha 27-29 January, 2015.
3. Babu Padmakumar, N.P.Sreekanth, V.Shanthi Prabha, Joby Paul, Toms Augustine, K.K. Jayasooryan, K. Sreedharan, M.Rameshan, Rinoy Vargheese, V.Arun Babu, Mahesh Mohan,

E.V Ramasamy, A.P Thomas. Floristic Assessment and Carbon Stock Estimation Of Tropical Dry Forest Of Chinnar, Kerala. Kerala Environment Congress, Kottayam 6-8 May, 2015.

4. Babu Padmakumar, N.P.Sreekanth, V.Shanthi Prabha, Joby Paul, Toms Augustine, K.K. Jayasooryan, K. Sreedharan, M.Rameshan, Rinoy Vargheese, V.Arun Babu, Mahesh Mohan, E.V Ramasamy, A.P Thomas. Tree diversity and Carbon Sequestration: A case study from semi evergreen forest of Kerala. International Conference on Climate Change Resilience.Pondichery University, Tamil Nadu, October 5-6, 2015.
5. P. Babu, N.P.Sreekanth, V.P.Shanthi, P. Joby, A. Toms, K.K. Jayasooryan, K. Sreedharan, M. Rameshan, V.Rinoy, V.B. Arun, M. Mahesh, E.V Ramasamy, A.P Thomas. Quantification of tree biomass and carbon stock from semi evergreen forest of Kerala. 25th Swadeshi science congress - a national seminar, Sree Sankaracharya University of Sanskrit, Kalady, Kerala, 16-18 December, 2015.

**INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE RESEARCH AND
EXTENSION**

A. Peer Review Journals

Dr. Sanal Mohan

INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES

A. Peer Review Journals

Prof(Dr.)I.Ibnusaud

1. Capillary Zone Electrophoretic Analysis Of 2-Hydroxycitric Acid Lactones And Related Molecules; B. L Abhijith, Moolya Mohan, David Joseph, Hassan Y. Aboul-Enein,Ibrahim Ibnusaud,Manuscript Accepted, 2015, *Chromatographia*, (Impact Factor: 1.411)
2. Palladium-Catalyzed α -Arylation Reactions in Total Synthesis; Sudheesh T. Sivanandan, AshnaShaji,Ibrahim Ibnusaud, Carin C. C. Johansson Seechurn and Thomas J. Colacot,*Eur. J. Org. Chem.* 2015, 38–49 (Impact Factor: 3.154)

K.N. RAJ STUDY CENTRE FOR PLANNING AND CENTRE STATE FINANCIAL RELATIONS

A. Peer Review Journals

K.M. Seethi

INTER UNIVERSITY CENTRE FOR DISABILITY STUDIES

Mrs. HENA N.N

A. Peer Review Journals

1. Effectiveness of video assisted reminiscence therapy on subjective well being of institutionalized elderly - IOSR journal of Nursing and Health Sciences, Co-Author, August 2015
2. “Cognitive capacities and general mental ability among low achieving primary school students” at the National Conference on “ Models of best practices in empowerment of persons with disabilities” organized by National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai on 16-17th October 2015
3. “ Coping patterns of caregivers of persons with dementia” at the 16th national conference of Alzheimer’s and related disorders society of India held at Mayfair Banquet, Mumbai on 3-4th December 2015.

ADVANCED MOLECULAR MATERIALS RESEARCH CENTRE : NIL

SCHOOL OF TECHNOLOGY AND APPLIED SCIENCE , EDAPPALLY

A. Peer Review Journals

Dr. S. Krishnakumar

1. “Practical Biasing Design for Analog Circuits” Rohith Krishnan R. and S. Krishnakumar. International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol. 3 Issue 7, July (2014), pp 910-917.
2. “Parallel Processing Technique for High Speed Object Recognition”, Rasiq S.M. and S. Krishnakumar. International Journal of Computer Applications (0975 – 8887) Volume 99, No.4, August (2014), pp 23-27.
3. “Parallel Processing Technique for High Speed Image Segmentation Using Color”, Rasiq S.M. and S. Krishnakumar. International Journal of Electronics and Communication

Engineering & Technology, Volume 5, Issue 12, December (2014), pp. 118-123.

1. "A method to modify/correct the performance of amplifiers", Rohith Krishnan. R, S. Krishnakumar, Reza Hashemian, International Journal of Scientific & Technology Research, Vol. 4, Issue 01, January (2015), pp 216-221.
2. "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), pp 238-242.
3. "Lossless compression of ECG signal and transmission", Eldhose N.V, Pooja K. Das, Sooraj N.S, Reshma Rajan. International Journal of Integrated Computer Applications & Research (IJICAR) VOL 1-2 IRJ010201(2015).

B. Non-Peer Review Journals – Nil

C. E-Journals– Nil.

D. Conference Proceedings

1. "Parallel Processors for High Speed Image multiple objects recognition", Rasiq S.M. and S. Krishnakumar. 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,
2. "Compression of Images Represented in Hexagonal Lattice Using Wavelet and Gabor Filter", Jeevan K.M. and S. Krishnakumar. 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.
3. "Human recognition for Surveillance system using bounding box", Deepak P, S. Krishnakumar and Smitha Suresh. 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.

SCHOOL OF TECHNOLOGY AND APPLIED SCIENCE , PULARIKKUNNU

A. Peer Review Journals

Dr. K. Shreekrishna Kumar

1. Characterization of Silver deposited Coir Fiber by Magnetron Sputtering. **J.cord** (2015).
2. Thin film Aluminium coated coir fibers deposited by Magnetron Sputtering. **Int. J. of Advanced Research** (2015).
3. UV protection ability of silver coated coir fabric by magnetron sputtering, **J. Indian Journal of Applied Research** (2015).

4. Characterisations of the electron beam impact on natural coir fibers. *Int. J. of Advanced Research* (2015).
5. Structural Studies on Quaterthiophene (QT) Thin Films. *Int. J. of Advanced Research* (In press).

Dr. Bijamma Thomas

1. A Mean Residual Quantile Function 2015 in the Journal of Applied Statistics, Taylor and Francies.

3.7. No of Books Published

Author/Editor	Title	Discipline	Publisher	ISBN No.
Manjusha.K.A	"Understanding the Tribal Life in India: Issues, Challenges and Alternate Approaches	Gandhian Thought and Development Studies		978-93-5212-508-1
E Sulaiman (SMBS)	<i>Interest-Free Financial System: Principles and Practices</i>	Management and Business Studies	Germany: Lap Lambert Academic Publishing House, 2014	978-3-659-56296-9.
Siby Zacharias (SMBS)	Sales Promotion and Consumer based Brand Equity	Management and Business Studies	Excel India Publishers, New Delhi	978-93-83842-78-0
Dr.Sunish T.V	Problems faced by Children with Sensory and Motor Disabilities in Inclusive Classroom, Innovations, Quality and Excellence in Education. First author , Seminar Compendium.	Disability Studies		978-81-926319-2-9
Dr.Sunish T.V	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 2014Volume 4(1), 8-	Disability Studies		, ISSN 2229-5143

	15 - Refereed, National.			
Dr.Sunish T.V	Awareness of Special Educators on Deaf-blindness, Innovative Thoughts- International Research Journal , First author , February 2014 Volume 1(4), Refereed, International	Disability Studies		pISSN 2321-5453, eISSN 2347-5722
K.M. Seethi (IR)	<i>State and Civil Society under Siege</i> (co-author with PM Joshy)	International Relations and Politics	New Delhi: Sage Publications	
C.Vinodan (IR)	<i>Energy Security Choices for India</i>	International Relations and Politics	New Delhi: New Century Publishers	

3.7A . Chapters in edited books

School of Behavioural Science

Dr. P. S Sukumaran

1. Ambady K.G., and Prof. **Dr. P.S Sukumaran**. Attitude of Tribals of Attappady towards Mental Retardation in terms of their Awareness level on Mental Retardation”. Conflux Journal of Education, Vol.1, No.11, PP 31-3
2. Nepal journal of epidemiology on post head injury neuro behavioural sequelae head injury patients with or without alcoholism. (Dr. Baburaj P.T)
3. “Emotional Maturity and Marital adjustment of persons with hearing Impairment’ P.T Baburaj and Chothisha K.S, Global Education Society and Development- An Intervation at journal of Academician. Vol.No.5 July 2014

School of Bioscience

Linu Mathew

1. Biological Effects of Ecdysteroids and Their Non Steroidal Agonist Bisacylhydrazines– A Review, RESHMA JOHN, RASHMI P.A, AND LINU MATHEW, In Biotechnology Vol. 7: Drug Discovery , Ed.by K K Bhutani Studium press, Houston USA ISBN 1-62699-022-0
2. Molecular charecterisation of three species of Clarias (pisces: siluriformes: claridae) using RAPD markers, Aneesha Devassy, Linu Mathew, Padmakumar K.G, Gopalakrishnan. A, Basheer,V.S, Raj Kumar, In

Perspectives on Biodiversity of India (eds) Bijukumar A,Rajendran C K,Peethambaran C K, ISBN 978-81-929896-0-0,

Jyothis Mathew and Radhakrishnan E K

1. Soumya K R, Suja Philip, Sheela Sugathan, Jyothis Mathew and Radhakrishnan E K Book chapter titled "Mechanisms behind the Establishment of Coagulase Negative Staphylococci as Successful Nosocomial Pathogens" in the book "RECENT DEVELOPMENTS IN BIOTECHNOLOGY published by Studium Press LLC, USA (in press).
2. Roshmi Thomas, Jyothis Mathew and Radhakrishnan EK Book chapter titled "Recent Advances in Microbial Synthesis of Metal Nanoparticles" in the book "RECENT DEVELOPMENTS IN BIOTECHNOLOGY published by Studium Press LLC, USA (in press).

Radhakrishnan E K

1. Deepa P. Mohanan, Robin Augustine, Nandakumar Kalarikkal, Radhakrishnan E. K., and Sabu Thomas "Electrospun Matrices for Biomedical Applications: Recent Advance" book chapter in Nanomedicine and Tissue Engineering State of the Art and Recent Trends. <http://www.sponpress.com/books/details/9781771881180/>

Keerthi T R

1. Keerthy T.R."Enzymes in development of probiotics" in the Book entitled Enzymes in Food & Beverage processing .Publishers: CRC publishers, Taylor and Francis Group.

Ray JG

1. Ray JG (2015)An Introduction to Soil (in Malayalam) published by State Institute of languages, Kerala; ISBN book 112 pages
2. Ray JG (2015) Scientific Approach to Soil. 'Labour India Year Book', Labour India Publications, Marangattupally, Pala pp.1-52

Jisha M.S.

1. Jisha.M.S.and Elizabeth. Pesticide Degradation: Practical Approaches" published in upcoming series on Environmental Science and Engineering series by Studium Press LLC, USA (in press).
2. Divya K and Jisha M S* ChitosanNanoparticles: A Novel Antimicrobial Agent, Accepted in Multi-Volume SET (I-V) "Therapeutic Nanostructures, Volume 3: Antimicrobials". Politehnica University of Bucharest.

School of Chemical Sciences

Prof . Sabu Thomas

1. B
 Biomaterial Applications: Macro to Nanoscale Sabu Thomas, Nandakumar Kalarikkal, Weimin Yang, Snigdha S Babu. Apple Academic Press 2014
2. C
 Characterization of Polymer Blends: Miscibility, Morphology and Interfaces Sabu Thomas, Yves Grohens, P Jyotishkumar. Wiley-VCH Verlag GmbH 2014
3. M
 Micro and Nanostructured Epoxy/Rubber Blends Sabu Thomas, Christophe Sinturel, Raju Thomas. Wiley-VCH Verlag GmbH 2012.
4. P
 Polymers for Packaging Applications Sabu Thomas, Sajid Alavi, K P Sandeep, Nandakumar Kalarikkal. Apple Academic Press 2013.
5. M
 Micro- And Nano-Structured Interpenetrating Polymer Networks: From Design to Applications Sabu Thomas. John Wiley & Sons 2014.
6. P
 Polymer Composites, Biocomposites: 3 Sabu Thomas, Kuruvilla Joseph, S.K. Malhotra, Koichi Goda, M.S. Sreekala. WileyVCH 2013
7. P
 Physical Chemistry of Macromolecules: Macro to Nanoscales. Editors: Chan, C. H., Chia, C. H., & Thomas, S. CRC Press, 2014 12. Nanostructured Polymer Blends, Volume 1 (Micro and Nano Technologies). Sabu Thomas, Robert Shanks and C Sarathchandran. William Andrew 2014

School of Computer Sciences : NIL

School of Environmental Sciences: NIL

School of Gandhian Thought and Development Studies NIL

School of Indian Legal Thought: NIL

School of International Relations and Politics:

K.M. Seethi

1. K.M. Seethi (2015): *State and Civil Society under Siege*, New Delhi: Sage Publications (co-author with PM Joshy)

C.Vinodan

1. C.Vinodan (2015): *Energy Security Choices for India*, New Delhi: New Century Publishers

School of Letters

Dr. Jose K. Manuel

1. “Nava Maadhyamangal : Bhasha, Saahithya , Samskaram” published by : National Book Stall – SPCS Kottayam
2. “Bible um Malayala Saahithyavum” published by : Media House , Kozhikode.
3. Title : Thirakathaa Saahityam , Book : Samakaala Malayala Saahityam Editor : Dr. N Sam , Pub By: Current Books , Kottayam

School of Management and Business Studies : NIL

School of Pedagogical Sciences

Dr. Sajna Jaleel

1. Social Networking sites: A Birds Eye View. In Rexlin Jose(2015). Education in the Digital Era: Channels for Confrontations.pp161-170. Bangalore: Archers and Elevators Publishing House

Dr. K.P. Suresh

1. Environmental Pedagogy: Creative Approach – 2015 Laxmi Book Publishing Company, Solapur – ISBN: 978-1-329-67216-1.

School of Pure and Applied Physics

NandakumarKalarikkal

1. Recent Trends in Natural Polymers and Biomaterials: Macro to Nanoscales Editors: Sabu Thomas, NadakumarKalarikkal, Weimin Yang, Oluwatobi Samuel Oluwafemi and Bindhya (2014)
2. Advances in Nanomedicine and Tissue Engineering (In Press)Editors: Sabu Thomas, NandakumarKalarikkal, Anne George, Joshi K. S, and Robin Augustine.Apple Academic Press (2015)
3. Role of wound dressings in the management of chronic and acute diabetic wounds, Robin Augustine,Kalarikkal, N., Thomas, S. Role of wound dressings in the management of chronic and acute diabetic wounds. In Diabetes Mellitus and HumanHealth Care: A Holistic Approach to Diagnosis and Treatment; George, A., Augustine, R., Sebastian, M. Eds.; Apple Academic Press: (2014)

School of Social Sciences

Dr. Raju S

1. ‘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

Dr. P. Sanal Mohan

1. *Modernity of Slavery: Struggles against Caste Inequality in Colonial Kerala, forthcoming.* Oxford University Press, New Delhi.

School of Tourism Studies :

Dr. Robinet Jacob

1. "A uniform approach for Tourism Education in India: Potentials, Problems and Prospects" in the book "Transforming Communities through tourism", by Victorious Publishers (India), February 2014.

International and Inter University Centre for Nanoscience and Nanotechnology

Prof(Dr.) Sabu Thomas

- | | | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1. | anotechnology Applications for Tissue Engineering. Thomas, Sabu, Yves Grohens, and Neethu Ninan, eds. William Andrew, 2015. | N |
| 2. | foundations of Nanotechnology, Volume One: Pore Size in Carbon-Based NanoAdsorbents A K Haghi, Sabu Thomas, Moein Mehdipour Mirmahaleh. Apple Academic Press 2014 | F |
| 3. | foundations of Nanotechnology, Volume Two: Nanoelements Formation and Interaction Sabu Thomas, Saeedeh Rafiei, Shima Maghsoodlou, Arezo Afzali. Apple Academic Press 2014 | F |
| 4. | Advanced Nanomaterials: Synthesis, Properties, and Applications Sabu Thomas, Nandakumar Kalarikkal, A. Manuel Stephan, B Raneesh. Apple Academic Press 2014 | A |

ACESSD : NIL

IUCDS

Dr.Sunish T.V

1. 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.

2. 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.
3. 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

INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE RESEARCH AND EXTENSION

Dr. Sanal Mohan

IIRBS : NIL

DEPARTMENT OF PHARMACEUTICAL SCIENCES, CHERUVANDOOR

Sl No	Author/Coauthor	Title	Journal
1	Dr. JyothiHarindran	Antiarthritic potential of Ocimumgratissimum L.in collagen indued arthritic Sprague-Dawley rats.	Biomedicine and aging pathology 4(2014)191-196
2	Mrs. Bindu AR	Pharmacognostical and phytochemical studies on CanthiumangustifoliumRoxb leaves	American Journal of Pharmacy &Health research. 2014,2(12) 83-89
3	Dr. Cinu Thomas A.	Synthesis and Evaluation of Antitubercular Activity of Novel Diphenyl Ether Derivatives	Indo Global Journal of Pharmaceutical Sciences 2015. 5(1):19:25
4	Dr. Cinu Thomas A.	Design, synthesis and evaluation of antitubercular activity of Triclosan analogues	Arabian Journal of Chemistry , Article in press, http://dx.doi.org/10.1016/j.arabjc.2015.09.003

3.11. No. of conferences organized by the Institution

Convener	170	Title	Level*
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School of Behavioural Sciences	National Trust for Welfare of Persons with Mental Retardation, Autism, Cerebral Palsy and Multiple Disabilities Act, 1999 on 15 th December 2014.	One day Seminar
School of Behavioural Sciences	New Regulations of Rehabilitation Council of India & NCTE for B. Ed. Special Education. School of Behavioural Sciences. 5.2.2015	Orientation Seminar
School of Behavioural Sciences	“Effective hand washing”	One day seminar
School of Bio Sciences	DNA Barcoding of microbes.30.3.2014	Workshop
School of Bio Sciences	Seminar on recent trends in medical molecular biology 03/07/2015	Seminar
School of Bio Sciences	National Workshop on Molecular Docking and Drug Designing on 23-25 March 2015	National Workshop
School of Chemical Sciences	Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014	International Conference
School of Chemical Sciences	Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014	International Conference
School of Chemical Sciences	First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014	World Conference
School of Chemical Sciences	Third International Conference on Recycling and Reuse of Materials	International Conference

	(ICRM 2014): 11-13 April 2014	
School of Chemical Sciences	Fourth International Conference on Natural Polymers (ICNP 2012) : 10-12 April 2015	International Conference
School of Chemical Sciences	World Congress on Microscopy (WCM 2015): Oct 9-11,2015	World Congress
School of Chemical Sciences	International Conference on Nanostructured Polymeric Materials (ICNPM 2015), Nov 13-15, 2015	International Conference
School of Chemical Sciences	International Conference on Power Engineering (ICPE 2015), Dec 11-13,2015	International Conference
School of Computer Sciences	INTERFACE - the ultimate software contest 2014	Seminar
School of Environmental Sciences	International Conference on water: From pollution to purification (23-26 jan) 2015	International Conference
School of Gandhian Studies and Development Studies	“Tribes in Transition: A Critical Enquiry” from 23 rd to 27 th March, 2015 at the School of Gandhian thought and Development Studies, M.G.University, Kottayam.	Five Days National Residential Workshop
School of Gandhian Studies and Development Studies	“Ageing Gracefully : A Multi-Disciplinary Perspective” sponsored by ICSSR, New Delhi (November, 2014)	National Seminar
School of Legal Thought	Dr. Ambedkar Memorial Lecture on 18 th March 2014 by Mr. R Venkat Ramani, Member , Law Commission of India	One Day Seminar
School of Legal Thought	Dr. Ambedkar Memorial Lecture on	One Day

	20 th February 2015 by Dr. B S Chauhan, Former Judge, Supreme Court of India	Seminar
School of Legal Thought	Farmers Rights In the Globalised Economy: Perspectives and Trends, 27 th -28 th March 2015	National Seminar
School of International Relations & Politics	The Nelson Mandela Chair organized a National Seminar on "Understanding China: Indian Perspectives" on 27-28 February 2015, jointly with the Chennai Centre for China Studies and the Institute for Contemporary Chinese Studies (ICCS), UGC Area Studies Centre at Mahatma Gandhi University	National Seminar
School of International Relations & Politics	"Engaging Diaspora: Challenges and Opportunities" on March 23-24, 2015	Conference
School of International Relations & Politics	COLLOQUIUM on "TRAVAILS OF POLITICAL TRANSITION IN IRAQ AND EGYPT" FRIDAY, 27 JUNE 2014 organized by the CENTRE FOR WEST ASIAN STUDIES, School of International Relations and Politics	Colloquium
School of Pedagogical Sciences	Adolescence Education and Life Skills on 29 th August 2014	One-day Orientation Workshop
School of Pedagogical Sciences	Empowerment programme on Adolescence health and life skills on 2,4 sep 2014	
School of Pure and Applied Physics	" The Hunt For the Blue LED"-SPAP, 14, October, 2015.	Seminar
School of Pure and Applied Physics	Developments in Crystallography, SPAP, 16-17, December 2014.	Workshop
School of Pure and Applied Physics	Piezoelectric Thin Films – Influence of film texture for MEMS. SPAP, 18 June	Seminar

	2015.	
School of Pure and Applied Physics	Plasma & Nanotechnology and 29th National Symposium on Plasma Science & Technology (PLASMA-2014)	International Conference
School of Pure and Applied Physics	Advanced Magnetic and Electronic Materials 30-3-2015 School of Pure and Applied Physics, Mahatma Gandhi University	National Seminar
School of Pure and Applied Physics	NanoPhotonics June 26 (2014)	National seminar
Advanced centre of Environmental Studies and Sustainable Development – An Inter University Centre	Water: From Pollution to Purification, Jan.23-26, 2015, Kottayam	International Conference
Advanced centre of Environmental Studies and Sustainable Development – An Inter University Centre	Membranes (ICM 2015), August 21-24, 2015, Kochi.	Third International Conference
Advanced centre of Environmental Studies and Sustainable Development – An Inter University Centre	Applications of Membranes in Energy and Water Purification. (NWM-2015), Aug.20-21, 2015, Mahatma Gandhi University, Kottayam.	National Workshop
International and Inter University Centre for Nanoscience and Nanotechnology(IUCNN)	First World Conference on Fracture and Damage Mechanics (august 9,10,11 2014)	World Conference
International and Inter University Centre for Nanoscience and Nanotechnology(IUCNN)	Third International Conference Polymer Processing and Characterization on 11-13 October 2014	International Conference
International and Inter University Centre for Nanoscience and Nanotechnology(IUCNN)	29 th National Symposium on Plasma Science and Technology & International Conference on Plasma and Nanotechnology – PLASMA 2014 (8-11 DECEMBER	National Symposium

	2014)	
International and Inter University Centre for Nanoscience and Nanotechnology(IUCNN)	Second International Conference on Nanostructured materials and Nanocomposites (19-21 December 2014)	International Conference
International Unit on macromolecular Science and Engineering(IUMSE)	Fourth international Conference on Natural Polymers and Biomaterials (10,11,12 April 2015)	International Conference
Institute Of Nursing Education, Gandhinagar, October 2015	Seminar For Teachers-Value Education Of Students At Institute Of Nursing Education, Gandhinagar, October 2015	
Advanced Molecular Materials Research Centre	Current trends in Material Sciences conducted by AMMRC on 15-11-2013	Seminar
Advanced Molecular Materials Research Centre	Recent trends in Inorganic-Organic Hybrid Materials conducted by AMMRC on 26 - 27 February, 2015	Seminar
Institute of Intensive Research in Basic Sciences(IIRBS)	National Workshop on "NMR Spectroscopy", 10 th - 13 th September 2014	National Workshop
Institute of Intensive Research in Basic Sciences(IIRBS)	DST-SERB Fast track meeting (Young Scientist , Chemistry) during 16 th - 17 th January ,2015	
Institute of Intensive Research in Basic Sciences(IIRBS)	Lectures on NMR Spectroscopy (including EPR during 7 -9, Jan 2015	Seminar
Institute of Intensive Research in Basic Sciences(IIRBS)	Lecture series in Organic Synthesis and Lab Training during Jan, 2015	Seminar
Institute of Intensive Research in Basic Sciences(IIRBS)	Lecture series in Organic Chemistry during 09.03.15-11.03.15	Seminar
Institute of Intensive Research in Basic Sciences(IIRBS)	"Workshop on skill generation in traditional arts and Sciences" - 13.06.2015	Workshop
Institute of Intensive Research in Basic Sciences	Flash Chromatography - One day instrumentation workshop -	Workshop

(IIRBS)	22.06.2015	
Inter University Centre for Disability Studies (IUCDS)	Workshop on Research Methodology (28.08.2014 to 29.08.2014)	Workshop
Inter University Centre for Disability Studies (IUCDS)	Workshop on Research Methodology (16.09.2015 to 18.09.2015)	Workshop
Inter University Centre for Disability Studies (IUCDS)	National Seminar on “ Technology : A boon for persons with disabilities” (03.12.2014)	National Seminar
Inter University Centre for Disability Studies (IUCDS)	National Conference on “Vision 2020”in association with C . H Muhammed Koya State Institute for the Mentally Challenged (SIMC) , Trivandrum.	National Conference
Department of Pharmaceutical Sciences , PUTHUPALLY	National seminar PHARMACADD 2014, sponsored by Kerala State Council for Science, Technology & Environment & Dept. of Science and Technology on 7 th and 8 th February 2014.	National seminar
Department of Pharmaceutical Sciences , PUTHUPALLY	One day international seminar PHAMACY PRACTISE sponsored by Kerala State Council for Science, Technology & Environment & Dept. of Science and Technology on 12th Feb 2015.	International seminar
UNIVERSITY COLLEGE OF TEACHER EDUCATION , KUMILY	A one day seminar on reading habits among youth was conducted on 19 th June 2014 in collaboration with the state resource centre Kerala and Indian Adult Education Association.	One Day Seminar
University Library	Orientation Programme on “Plagiarism” conducted on 18.03.2015	Orientation Programme
University Library	Awareness Programme on ‘Use of Anti - Plagiarism software for Research Integrity and Ethics’	Awareness Programme

	conducted on 03.06.2015	

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I

International/National seminar/conference/workshop

3.12 No of faculty served as expert, chairpersons or resource persons

SCHOOL OF BEHAVIOURAL SCIENCES

Faculty

Programmes associated

Prof. (Dr.) P.S
Sukumaran

:

1. Resource person, Discussion on Analysing Data of the Inclusive Education project, DIET, Thiruvalla ,15.3.2014.
2. Resource person, 'Curriculum Workshop for Individuals with mental Retardation", Organized by State Resource Centre, Trivandrum. 19.03.2014.
3. Resource Person, Seminar on Special Education' organized by Special Education Association, Calicut, 22.3.2014
4. Resource Person, 'Workshop for Special Teachers'.presented paper on Role of Special Teachers, Care takers and Society in the Rehabilitation of children

- with Mental Retardation” organized by State Resource Centre, Trivandrum, 23.5.2014.
5. Resource person, ‘Workshop on Research in Disabilities, organized by IUCDS, M.G University, 29.8.2014.
 6. Resource Person, “Validation of Special School Curriculum for children with Mental Retardation” SCERT, Trivandrum, 20.9.2014
 7. Resource Person, Seminar on “Role of Parents in Special Education of Children with Mental Retardation” organized by Holy Cross Special School, Mannackanad, Kuravilangad. 23.9.2014
 8. Resource person, “Inspire’ An Investigation into the Rehabilitation of mentally Challenged’, Seminar organized by State Institute for the Mentally Challenged, at Malappuram, presenter paper on’ Current perspectives towards curriculum for children with Mental Retardation” 25.10.2014.
 9. Organized a Seminar on “National Trust Act, 1999 and Legal Guardianship, for the parents of Individuals with Autism, Cerebral Palsy, Mental Retardation and Multiple Disabilities, School of Behavioural Sciences, M.G. University. 15.12.2014.

Dr. Baburaj P.T

:

1. 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
2. Resource Person – 25th anniversary of UNCRC seminar on 15.12.2014 at BCM College, Kottayam.
3. One day parents training programme for the mentally challenged at Kollappilly, Pala on 20.12.2014 as Resource person.
4. Priyachandra K and Dr. P.T Baburaj – Cochlear Implantation.
5. International conference on “current Trends in Public Health and Hospital administration ‘Medilian 2015’ organized by Division Health Management, School of Medical Education, Mahatma Gandhi University, Kottayam on 26th - 27th March 2015.
6. Resource Person: One day parents Training at Santhi Niketan Special School for mentally challenged, Anthinad, Pala on 10.02.2015

School of Bio Sciences

Faculty

Programmes associated

Dr. J G Ray

:

1. Expert Committee Member of SARD project evaluation at KCSTE, Thiruvananthapuram on 12th May 2015
2. Judging Committee for Evaluation of Best Paper Presentations, Kerala Environment Science Congress, 6-8 May 2015, Kottayam

SCHOOL OF CHEMICAL SCIENCES: NIL

SCHOOL OF COMPUTER SCIENCES

Faculty

Programmes associated

- Prof. (Dr.) R. Vijayakumar :
1. Joint coordinator SAPINCE -'14 International Conference on " Security and Authentication " -- SNGC of Engg , Kadayiruppu, Kolencherry, Ernakulam.(27 and 28 th March 2014)

SCHOOL OF ENVIRONMENTAL SCIENCE: NIL

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT STUDIES

Programmes associated

Faculty

Sandhya P S

1. Acted as Subject Expert for the Selection of Research Assistant in the School of Social Sciences in MG University
2. Acted as Subject Expert for FIP selection of Mr. Reji Kollinal, DCDC Office, MG University
3. Attended a two week Faculty Development Programme organized by MG University (August, 2015)
4. Coordinated Gandhi Jayanti Varagosham at School of Gandhian Thought and Development Studies, MG University, Kottayam (28th Sept to 2nd October, 2015)
5. Published a paper "Eldery Widows in India: An invisible, dependent and secluded population" in the International Journal of Multidisciplinary Research Review, Dec, 2015 (impact factor 2.262)

SCHOOL OF INDIAN LEGAL THOUGHT: NIL

SCHOOL OF MANAGEMENT AND BUSINESS STUDIES

Faculty

Dr Johney Johnson

:

Programmes associated

Served as resource person for refresher courses at the UGC ASC of University of Kerala, University of Calicut and Kannur University.

Dr. Santhosh. P. Thampi

:

Dr. Santhosh. P. Thampi has served as resource person

Dr. E. Sulaiman : One Day National Level Seminar on *Problems and Prospects of Rural Banking and its Impact on Empowerment of Rural Households*, Sponsored by ICSSR, Dr.N.G.P.ARTS AND SCIENCE COLLEGE, Coimbatore, 14th December 2014.

SCHOOL OF LETTERS: NIL

SCHOOL OF PEDAGOGICAL SCIENCES

Faculty

Programmes associated

Dr. Celine Pereira

Resource Person in the **State Seminar Cum Workshop** on Managing School Education in Kerala on May 6, 2014 held in SIEMAT Kerala.

Resource Person in the **National Workshop** on Research Trend, Design and Reporting on 19-20 Dec. 2014 in Ruban College of Education, TN.

Resource Person in the **National Conference** on Trends and Innovations in Gandhian Thought on 12-13 Dec. 2014 held in Gandhi Smarak Nidhi, Trivandrum.

Resource Person in the **International Seminar** on Redefining Educational Practices integrating Indian Epistemology and Modern Cognitive Neurosciences held on 7-9 Jan. 2015 in NVKSD College of Education, Attoor. Paper: Effectiveness of Value Discussion Model on the Affective Domain, Competencies of Adolescence

Resource Person in the **National Workshop** on Research Methodology in Social Sciences organized by Post Graduate Department of History on 25-27 Feb. **2015** held in Catholice College pathanamthitta.

Dr. Jaya Jaise

Served as Resource Person in the International Conference on Standards and Benchmarks for Excellence in Learning, Teaching and Research

organised by All India Association for Educational Research (AIAER); Department of Education, University of Kerala; Government College of Teacher Education on 26th to 28th November 2015

Dr. Minikutty A

Acted as Resource Person in the Inter National Seminar on "Institutional Interventions to bridge Competency Gulf in an e-world (IIBCGerW)" organized by NSS Training College, Pandalam and Council of Teacher Educators (CTE) on 24th, 25th & 26th March 2014.

Chaired a Session in the ICSSR Sponsored Inter National Seminar on "Redefining Educational Practices Integrating Indian Epistemology and Modern Cognitive Neurosciences" in connection with 13th Annual Convention on Council of Teacher Education (CTE) organized by N.V.K.S.D College of Education, Attoor, Tamil Nadu on 7-9 January 2015.

Dr. K.P. Suresh

Resource Person – In the Seminar on Pedagogical Imperatives of ICT on Scholastic and Affective Outcomes in Digital Emotive Pedagogy in St. Xavier's College of Education, Palayamkottai, Tamilnadu.

Resource Person – "A Paradigm Shift for Pedagogical Consideration in Ramya Sathianathan College of Education, Thanjavur".

Resource Person – "In Autonomy: Realization of Quality Higher Education Conferment of Autonomous Status to Colleges in Kerala: Prospects and Chhallenges – Sri. Sarada College of Education, Salem.

Resource Person – "Re-Reading Quality in Teacher Education: The need for an Alternative Pedagogy by name, Culturally Responsive Teaching – St.Mautitina College of Education – Chennai.

Dr. Sajna Jaleel

Served as Resource person of the One-day Orientation Workshop on Adolescence Education and Life Skills on 29th August 2014, organised by the school of Pedagogical Sciences, Mahatma Gandhi University in collaboration with SCERT Kerala with financial support of NCERT, New Delhi.

Dr. P.J. Jacob

Serves as resource person for the UGC Sponsored National Seminar on Prioritising Gender equality to ensure quality enhancement and sustenance in higher education held at Mount Carmel College of Teacher Education for women. Kottayam on 16,17 Dec 2014.

Serves as Director of research, Mahatma Gandhi University

SCHOOL OF SOCIAL SCIENCES: NIL

SCHOOL OF TOURISM STUDIES: NIL

INTER UNIVERSITY CENTRE FOR DISABILITY STUDIES

Faculty

Programmes associated

Dr.Sunish T.V

Coordinator, Early Intervention Centre- 'DREAMS', Inter University centre for Disability Studies, M.G. University, Kottayam, Kerala.

Resource Person in National workshop for the Conceptualization for the Development of Curriculum of the Intellectually Challenged, organised by SCERT, Kerala.

INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE , RESEARCH AND EXTENSION : NIL

3.13 Details of collaborations

Faculty/Coordinator of the program	Collaborating Institution	Type of collaboration	Other details*
SCHOOL OF BEHAVIOURAL SCIENCE	1. NIMHANS Bangalore 2. NIMH,Hyderabad 3. NISH,Thiruvananthapuram 4. AIISH,Mysore	NATIONAL	NATIONAL
SCHOOL OF BIOSCIENCES	1. MSSRF Foundation, Wynadu	NATIONAL	NATIONAL

	<p>2. CEPC Kollam</p> <p>3. CTCRI, Thiruvananthapuram</p>		
SCHOOL OF CHEMICAL SCIENCES	<p>1. Bhabha Atomic Research Centre, Mumbai</p> <p>2. Raman Research Institute, Bangalore</p> <p>3. Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore</p> <p>4. UGC DAE CSR Kolkata Centre, Kolkata</p> <p>5. Pushpagiri Research Centre Thiruvalla, Kerala</p> <p>6. Saha Institute of Nuclear Physics, Kolkata</p> <p>7. National Chemical Laboratory, Pune</p> <p>8. Rubber Research Institute of India</p> <p>9. Cochin University of Science and Technology, Cochin, Kerala</p> <p>10. Centre for Materials for Electronics Technology Thrissur, Kerala</p> <p>11. Central Electrochemical Research Institute (CECRI), Karaikudi</p> <p>12. Indian Institute of Technology, Kharagpur</p> <p>13. Banaras Hindu University</p> <p>14. Indian Institute of Space science and Technology, Trivandrum</p> <p>15. Indian Institute of Technology, Mumbai, Madras</p> <p>16. Indian Institute of Science , Bangalore</p>	NATIONAL	NATIONAL
SCHOOL OF CHEMICAL SCIENCES	<p>1. Walter Sisulu University, South Africa</p> <p>2. Almighty Institute of power Engineering</p>	INTERNATIONAL	INTERNATIONAL

	<p>and Telecommunication</p> <p>3. Deaken University, Australia</p> <p>4. University of Rouen</p> <p>5. Kansas State University, Manhattan, Kansas ,USA</p> <p>6. Siberian Federal University, Russian Freedom</p> <p>7. Laboratoire Des sciences Analytics, CNRS UMR, France</p> <p>8. University Lorraine, Nancy, France</p> <p>9. University of Pretoria, South Africa</p> <p>10. Changwon National University, Korea</p> <p>11. Cape Peninsula Uni of Tech South Africa</p> <p>12. Beijiing University of Chemical Technology China</p> <p>13. Technische Universitat Chemnitz Jermamy</p> <p>14. Martin Luther Universistat Halle Witenberg Germany 23</p> <p>15. Institute of Polymer Research Germany</p> <p>16. CNRS Thiais France</p> <p>17. University of Paris 12, France</p> <p>18. University of Sud Brittany, France</p> <p>19. University of Free state South Africa</p> <p>20. University of Strassburg, France</p> <p>21. Jozef Stafan Institute Ljublijana Slovenic</p> <p>22. Universite Paris- Sud XI France</p> <p>23. National . University of Singapore,</p>		
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	<p>Singapore</p> <p>24. Leibniz Institut für Katalyse e.V Rostock Germany</p> <p>25. LECAP . University of Rouen, France</p> <p>26. University of Lemans, France</p> <p>27. University of Rijeka, Croatia</p> <p>28. University of Orleans France</p>		
SCHOOL OF CHEMICAL SCIENCES	<p>MOUs signed with the following Industries:</p> <p>1. MRF</p> <p>2. Apollo Tyres</p> <p>3. Surface Treat, Czech Republic</p> <p>4. General Cables, USA</p>	INTERNATIONAL	INTERNATIONAL
SCHOOL OF INTERNATIONAL RELATION & POLITICS	<p>1. Institute of Political Studies (IEP) of Rennes, France</p> <p>2. Sciences Po Bordeaux (IEP), FRANCE</p> <p>3. Institute of Chindian Studies, Jinan University, China</p>	INTERNATIONAL	INTERNATIONAL

SCHOOL OF PURE AND APPLIED PHYSICS	<ol style="list-style-type: none"> 1. Bhabha Atomic Research Centre, Mumbai, India 2. Raman Research Institute, Bangalore, India 3. Indian Institute of Science, Bangalore, India 4. Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India 5. UGC-DAE Consortium for Scientific Research-Kolkata Centre, Kolkata, India 6. Cochin University of Science & Technology, Kochi, India 7. Inter University Accelerator Centre, New Delhi, India 8. Walter Sisulu University, South Africa 9. Jožef Stefan Institute, Ljubjana, Slovenia 10. Trent University, Canada 11. Uninversity of Technology- MARA, Malaysia 12. entral University of Kerala, Kasaragod 	INTERNATIO NAL	INTERNATI ONAL
ACESSD	<ol style="list-style-type: none"> 1. Duke University, USA 2. Plymouth State University, USA 	INTERNATIO NAL	
ACESSD	<ol style="list-style-type: none"> 1. Shoolini University, Himachal Pradesh 2. Ecoscience Research Foundation, Chennai. 	NATIONAL	
INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES	<ol style="list-style-type: none"> 1. University of California , Santa Cruz, USA 2. Vanderbilt University, USA 3. University of Texas in Airlington, USA 4. Functional Materials Division, Pusan National University, Busan, Korea 5. University of Paris Sud, France. 6. Johnson Matthey, New Jersey, USA 	INTERNATIO NAL	
INSTITUTE FOR INTENSIVE	<ol style="list-style-type: none"> 1. Dr. Anil J Elias, Professor, Department of Chemistry, Indian Institute of 		

RESEARCH IN BASIC SCIENCES	Technology, Delhi 2. Dr.I.N.N.Namboothiri,Professor, Department of Chemistry, IIT Mumbai 3. Dr.Radha V. Jayaram, Professor, ICT, Mumbai 4. Dr. Manoj Ramavarma , NIIST, Trivandrum 5. Dr.R.B Sunoj,Dept. of Chemistry, IIT Mumbai 6. Dr.SavitaLadage, HBCSE, TIFR, Mumbai	NATIONAL	
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*National/International/highlights of the programme

3.14 Linkages created

ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE ENVIRONMENT

International

1. Pohang University of Science and Technology, Korea
2. Agriculture and Agri-Food Canada, Ottawa, Canada
3. Finnish Forest Research Institute, Finland
4. Lund University centre for sustainable studies, Sweden
5. Zuckerberg Institute for Water Research, Israel
6. Russian Academy of Sciences, Russia
7. *Duke University, USA*
8. University Technology Mara, Malaysia
9. Center for International Forestry Research, Indonesia
10. University of Gottingen, Germany.

National

1. Shoolini university, Solan, Himachal Pradesh
2. Indian Institute of Science, Bangalore, Karnataka
3. IIT Delhi
4. IIT Bombay

5. Karunya University, Coimbatore
6. IIT Delhi, India
7. CSMCRI, Gujarat
8. Ecoscience Research Foundation, Chennai

Regional

1. CUSAT, Cochin
2. Kerala Forest Research Institute, Peechi
3. C.M.S College, Kottayam
4. Rubber Research Institute of India

3.16 Details of patents

INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANO SCIENCE AND NANO TECHNOLOGY

1.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

2.A polymer Nanocomposite, Process And Application there-of, Indian patent Application No: 638/DEL/2015 Mohammed Arif P, Sabu Thomas, Nandakumar Kalarikkal

INSTITUTE OF INTENSIVE RESEARCH IN BASIC SCIENCES

1.Ibrahim Ibnusaud and [SarathMuralidharanPillai](#). 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 (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 filed 2015.**

3.17 Details of research awards recognition received by the faculties and research fellows

Name	Designation	School	Details of awards/recognition
Prof Sabu Thomas	Professor	School of Chemical Science	Honorary Doctorate from the University of South Brittany, France
Prof Sabu Thomas	Professor	School of Chemical Science	Listed in the panel of most productive faculty in the country (5 th position)
Prof Sabu Thomas	Professor	School of Chemical Science	Enrolled as Honorary Member in the Society For Educational & Scientific Research. (SESR)
Prof Sabu Thomas	Professor	School of Chemical Science	Awarded with (SESR) Nanotech Scientist Award-2014,by Society For Educational & Scientific Research. (SESR) in the International Conference held at Kumarakom , Kerala during 11-12 September 2014.
Dr.Praveen.G	Research Scholar	School of Chemical Science	Best Oral Presentation Award In The National Seminar On Biopolymers And Green Composites (BPGC-14) Organized By The Centre For Biopolymer Science And Technology (CBPST), A Unit Of CIPET, Department Of Chemicals & Petrochemicals, Ministry Of Chemicals & Fertilizers, Govt. Of India
Jiji Abraham	Research Scholar	School of Chemical Science	Best Paper Award - NATIONAL SEMINAR ON NANOSTRUCTURED MATERIALS (NSM2014),

			Organized By Post Graduate Department Of Chemistry NSS Hindu College Changanacherry, Kottayam, Kerala, India August 12 & 13, 2014
Dr.Praveen.G	Research Scholar	School of Chemical Science	Best Oral Presentation Award In UGC Sponsored National Seminar On Nanochemistry And Nanobiotechnology (Nanochembio-14) Organized By Dept. Of Chemistry, St. Thomas College, Palai, India. (8th And 9th Of October 2014)
Jemy James	Research Scholar	School of Chemical Science	Awarded Best Oral Presentation At International Conference On Plasma Science And Nanotechnology, And 29 th National Symposium On Plasma Science And Technology, December 2014, Held At Kottayam
Robin Augustine	Research Scholar	School of Chemical Science	Third prize for poster presentation in 2nd International Conference of Nano Materials(ICNM)2014
Runcy Wilson	Research Scholar	School of Chemical Science	Best Paper Award-National Seminar on Advanced Polymer Materials , organised by Department of Polymer Engineering, Muttom on September 11 & 12 ,2015
Deepalekshmi Ponnamma	Research Scholar	School of Chemical Science	Selected as invited speaker for the "Polymer Conference for Young Researchers (PCYR - 14) held at CSIR -NIIST

Amrutha Thankachan	Research Scholar	School of Chemical Science	Best Paper Award - A Novel Protocol for the formation of C-S bonds using Zn(II) - Catalysts” in the UGC sponsored National Conference conduted at S.H College , Thevara. On 4-5 December 2014
Anns Maria Thomas	Research Scholar	School of Chemical Science	Best Poster award -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
Amrutha P Thankachan	Research Scholar	School of Chemical Science	Best poster Competition - Second Prize - “ Novel zinc catalysed C-S cross coupling reactions of aryl halides with aryl thiols” - in the UGC sponsored National seminar conducted at B. K College , amalagiri on 22-23 January 2015
Jeena Abraham	Research Scholar	School of Chemical Science	Best Paper award - International Conference Nanoscience and Emerging Applications (ICONSEA) organised by Centre for Nanoscience and Technology , JNU, Hyderabad , June 26-28 ,2014
Anju Augustine	Research Scholar	School of Chemical Science	Best JSST paper - “Molecular imprinted polymers as synthetic receptors for the analysis of testosterone” - Journal of Surface Science and

			Technology , vol : 30, No:3-4, pp 129-148.
Prof.C.T. Aravindakumar	Professor & Director	School of Environmental Science	Selected as Visiting Professor at the University of Paris-East with full professor status, 2015
Prof.C.T. Aravindakumar	Professor & Director	School of Environmental Science	Nominated as the Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies
Prof.C.T. Aravindakumar	Professor & Director	School of Environmental Science	Invited for the Plenary Speaker at the International Conference on Advances in Applied Sciences and Environmental Technology, ASET, 21-22 Feb.2015, Bangkok, Thailand
Dr.K.Sabukuttan	Associate Professor & Head	Department of Life Long Learning & Extension	Life time Achievement Award 2014 for promotion of yoga and Naturopathy from the Indian marital Arts Academy Thrissur Kerala.
Dr.K.Sabukuttan	Associate Professor & Head	Department of Life Long Learning & Extension	Received certificate of appreciation for the invaluable lecture titled " <i>Problems of the Ageing mothers</i> " at the National seminar sponsored by the ICSSR, New Delhi on ageing gracefully a Multi - Disciplinary perspective" On 25 th November 2014 By school of Gandhian Thought and development studies - MG university.

Dr.K.Sabukuttan	Associate Professor & Head	Department of Life Long Learning & Extension	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.
Dr K Nandakumar	Associate Professor	School of Pure and Applied Physics	Best poster award - Biomedicine 2014, National seminar organized by Pushpagiri Research centre, Tiruvalla, Kerala, May 3 rd , (2014).
Dr K Nandakumar	Associate Professor	School of Pure and Applied Physics	Best Poster Award - International Conference on membranes, organized by the Centre for Environment Education and Technology(CEET), Advanced Centre of Environmental studies and sustainable Devvelopment(ACESSD), Mahatma Gandhi University, Kottayam
Dr K Nandakumar	Associate Professor	School of Pure and Applied Physics	Best Oral Award - Enhanced dielectric and magnetoelectric coupling in BiFeO ₃ -NaNbO ₃ -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)
Dr. P. Sanal Mohan	Associate Professor	School of Social Sciences	Fellow, Social Sciences Research Council New York in the Programme of New Directions in the Study of Prayers. September 2012-2014
Dr. K T Rammohan	Associate Professor	School of Social Sciences	Principal Coordinator - The ABILITY Project - addresses

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

SCHOOL OF BEHAVIOURAL SCIENCES

- Parental counselling
- Training to teachers
- Life skill education for adolescents
- Early identification & intervention for childhood disorders,
- Counselling 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

SCHOOL OF BIOSCIENCES : NIL

SCHOOL OF CHEMICAL SCIENCES : NIL

SCHOOL OF COMPUTER SCIENCES

- As part of "Clean India Challenge" 08.10.2014 was observed as cleaning day.
- The students and staff of the school took part in the charity programme organized by the Department Students' Union of the University, for the students in Nalpathimala colony.
- Interface 2014- an annual IT Meet (IT competitions) organized by the School provided a platform for students in Computer Science and Technology from various Universities and Colleges in South India to showcase their technical talents and also served as a forum for information interchange in the field.
- Remedial classes were organized for the second semester M Sc and M Tech batches during vacation (20.04.2015 to 30.04.2015).

SCHOOL OF ENVIRONMENTAL SCIENCES: NIL

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENTAL STUDIES: NIL

SCHOOL OF INDIAN LEGAL THOUGHT

- The major activities for the academic year 2014 -2015 include the two day National Seminar organized by the institution in the topic of 'Right of Farmers in The Globalised economy – Trends and Perspectives'.
- Measures for ensuring participation and securing good positions including first prize in various Moot Court competitions.
- Legal literacy mission carried out in various Panchayats and schools.
- Dispute redressal through the mechanism of mediation organized in the School.
- Ambedkar Memorial Lecture

SCHOOL OF INTERNATIONAL RELATIONS & POLITICS

- The School organised some awareness programmes in the fields of Human Rights and Public Policy. The faculty of the School offered classes in and outside the campus in the above areas. Some of the programmes were held in collaboration with colleges and non-governmental organisations.

SCHOOL OF LETTERS : NIL

SCHOOL OF MANAGEMENT AND BUSINESS STUDIES

- Blood Donation.
- Campus cleaning

SCHOOL OF PEDAGOGICAL SCIENCES: NIL

SCHOOL OF PURE AND APPLIED PHYSICS

- The School has conducted INCULCATE programs in association with Government of Kerala for School children.
- The faculty members of the School also guiding students of M.Sc. and M. Tech from affiliated institutions of Mahatma Gandhi University in particular; and other institutions within Kerala as well as national institutions like IISER & NISER states.
- Faculty members also deliver invited talks on a regular basis in Colleges and Universities

SCHOOL OF SOCIAL SCIENCES: NIL

SCHOOL OF TOURISM STUDIES

- Students in four groups undertook a projects on "Destination development-Water Ways", "Barrier free tourism in pilgrim destinations in 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 department to analyse the imperative needs of the differently abled in achieving their right to leisure.

- Faculty members engaged in dissemination of knowledge by handling regular columns in national newspapers and wrote 29 articles.
- A broad survey was carried out to unearth the scope of public sector employment opportunities in the field of tourism which benefitted the students to find out their future plan.

International & Inter University Centre for Nanoscience & Nanotechnology : NIL Advanced Centre for Environmental and Sustainable Development

- Community empowerment through people’s participation to meet their livelihood needs
- Food adulterance in soft drinks and packaged water – community awareness programme
- Western Ghats Conservation – Sustainable Practices – Stakeholder interaction

DEPARTMENT OF STUDENT SERVICES

- The Department of Student Services and the University Union jointly conducted the Youth Festival-DWANI-2015 at Kottayam during 5-11 March 2015
- 30th National India Inter University Youth Festival at Indore- A strong contingent from the University participated in the event at Devi Ahilya Viswa Vidyalaya at Indore, Madhya Pradesh. They won First in Western Group Song and Western Solo and Second in Skit and Mime and Fourth in Solo Percussion.
- The Department of Student Services formed a strong contingent to participate in the South Zone in the Inter-University Youth Festival at Tumkur University, Karnataka and the contestants won three prizes in First position (Skit, Mime and Group Song-Western) and two second prizes in Instrumental Solo Percussion and Three Third prizes in Collage, Mimicry and Classical Dance.
- A strong contingent from our University participated in the event at Devi Ahilya Viswa Vidyalaya at Indore, Madhya Pradesh. They won First in Western Group Song and Western Solo and Second in Skit and Mime and Fourth in Solo Percussion
- Under the leadership of the Director of Student Services the participants attended the Nature Sensitisation Camp (Paid Camp) at Pampadum

Sholai National Park, Munnar for three days and Dr. Gigi.K Joseph, Nirmala College, Muvattupuzha had convened the study class.

- Inter-Collegiate Media Residential Camp at Devamatha College, Kuravilangad was conducted in association with the NSS unit of that college
- Competitions for Best College Magazine Award was held among the colleges affiliated to the University
- In the memorable and colorful function held at St.Terasas College, Ernakulam by the Department of Student Services Cash Awards to winners of MG University Youth Festival (KELI-2014)/SZIUYP/NIUYP were distributed by the Hon'ble Vice Chancellor and Pro-Vice-Chancellor in the presence of prominent personalities
- Students cultural scholarship: Out of the proposed fund of Rs.25 lakhs, an amount of Rs. 1,00,000/- was earmarked for cultural scholarship to Youth Festival winners.
- Financial assistance for Medical Aid to students: An amount of Rs.2, 50,000/- was set aside for this purpose.
- Scholarship to physically challenged students: Rs. 1,00,000/- was earmarked for it and a total number of 16 applications were received in this department
- Cash Award to Republic Day Parade contingent of NSS/NCC: An amount of Rs. 50,000/- has been earmarked in the proposed and 8 students from NCC and '2' students from NSS have applied for it
- The DSS has conducted the seminar on the topic "First Aid and Basic Life Support" at Pavananthma College, Murickassery
- The DSS has conducted the seminar on the topic "E-Learning" at Assumption College, Changanassery and St. George College, Aruvithura
- The seminar on the topic "Understanding Stressors and Coping Strategies" was conducted by the DSS at UCTE, Paipadu, Thiruvalla
- The seminar on the topic "Employability Skills" at St.Paul's College, Kalamassery

4.2 Computerization of administration and library

UGC-Infonet Digital Library consortium

Sl. No	Name of Journal Database	2012	2013	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 Univ 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		NA	29	27

Online Information Services

- ❖ Access to 7500+ e-journals/databases through the UGC Infonet Digital Library Consortium of the INFLIBNET Centre.
- ❖ Library also has subscription to Archival Collections of e-journals published by Sage, Wiley, Springer, Cambridge etc
- ❖ Subscription to e-books from Oxford Scholarship Online (no of e-books accessible: 2500)
- ❖ Through J Gate Plus 22000+ e-journals
- ❖ The Depts. /Centres of the University located outside campus have access to the above resources using VPN/IP Authentication.
- ❖ The INFONET Centre and the Internet Labs provide in-house online services.
- ❖ WiFi facility within the library and its premises for laptop/mobile users.

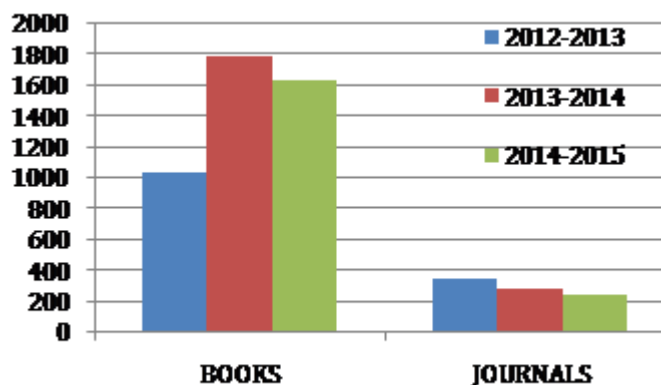
Document Delivery Service (DDS) and Inter Library Loan- The Library collects and issues journal articles and books which are not available in its collection to the users based on their demand. The documents are mainly collected from DELNET(Developing Library Network), NEW Delhi and other resourceful R&D Institutions at National level. The Library is an Institutional Member of DELNET.

Electronic Theses and Dissertation- Library also contributes digital theses to Shodhganga It is the ETD online project UGC/ INFLIBNET Centre. At present this Library placed 5th in respect of contribution to “Shodhganga” No. of theses uploaded in Shodhganga is 2091 (As on October 17, 2015). Shodhgangotri - The Synopsis of ongoing research works of the University are also digitised and uploaded in the Shodhgangotri repository of the INFLIBNET Centre. No. of Dissertations uploaded is 178 (As on October 17, 2015)

Workshops and Seminars / Orientation programmes Conducted by university Library

- ❖ Two day ‘Workshop on WordPress from 20-21 February, 2015.
- ❖ Lecture Programme on ‘E-Reading’ by V K Adarsh on 6-2-2015.

- ❖ Lecture Programme on 'Use of Anti-Plagiarism software for Research Integrity and Ethics' conducted on 3-6-2015
- ❖ Orientation Programme to the students of Sacred Heart College , Thevara -Kochi on 15- 11-2014.
- ❖ Orientation Programme to the students of K.N. Raj Study Centre for Planning and Centre-State Financial Relations on 25-09-2014.
- ❖ Orientation Programme to the Research Students of School of International Relations and Politics on 24-09-2014.
- ❖ Orientation Programme to the students of School of Chemical Sciences on 23-09-2014.
- ❖ Orientation Programme to the students of K.N. Raj Study Centre for Planning and Centre-State Financial Relations on 07-05-2014.
- ❖ Library User Orientation Programme to the P G Students of School of Chemical Sciences on 4-4-14.
- ❖ Orientation Programme to the students of St.Peter's College, Kolencherry on 24-03-2015.
- ❖ Orientation Programme to the Academic Community on Plagiarism and Plagiarism checking software (IThenticate) on 18-03-2015.
- ❖ Orientation Programme to the students of Devamatha College, Kuravilangadu on 2-02- 2015.



Collection development (Statistics)

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- All the departments conduct orientation programmes at the time of admission of new students. The alumni association is also instrumental in guiding the students in building up their academic career and future activities
- Financial, Medical and moral supports are provided to the students.
- The IQAC cell of the School monitors the smooth conduct and completion of the teaching programmes, internal and external examinations, evaluation methods, the completion of evaluations on date, collecting feedback from students and gives valuable suggestions and guidelines as and when needed.

- Students were given information about various outside seminars and workshops and takes steps to conduct national seminars and personality development workshops inside the School.
- Meeting with students whenever computer services are upgraded in computer lab and in the library.
- Placement cell to enhance placements.
- Remedial coaching for academically weak students.
- Interacting with alumni for placement / Project support.
- Participation in Management Fests.

5.2 Efforts made by the institution for tracking the progression

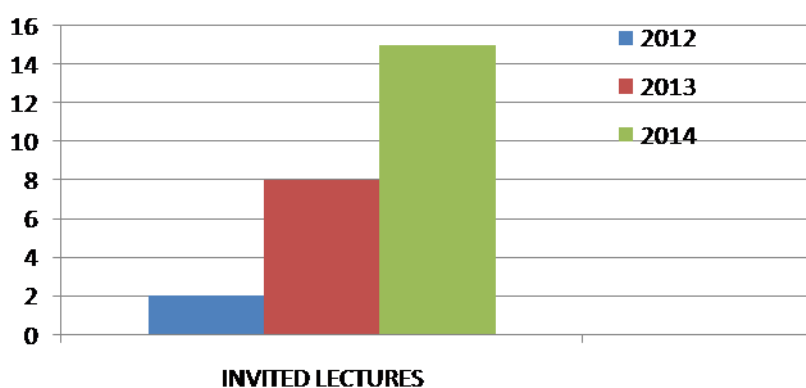
The university provide internet facility to whole department and hostel. Students grievance and anti harassment cell are functioning in a proper way. Students can have the facility to direct approach Hon. VC and PVC at 4-6 pm every day. Counseling centres and health centre are available in the university campus. Anti- ragging cell is a good achiemnet of university. The mentor always supports their students and also monitors their progression. They impart this through test paper, internal evaluation, presentations and seminars and their progress review is also made in PTA meetings. The department and centres organises different international lectures and make different collaborations throughout the world which will help to improve their academic level. Progress review is also made in PTA meetings.

Details of invited lecture series during 2014-2015

Sl. No	Name	date
1	Taofik Shittu from Nigeria	22.12.2014
2	Prof. (emerit.) Dr. Werner Mormann, Universität Siegen	11.12.2014
3	AASHISH ROY(Postdoctoral Fellow, Department of Materials Engineering Indian Institute of Science)	19.11.2014

4	Dr. Muthu Pannirselvam	14.10.2014
5	Prof. Jozef T Haponiuk	14.10.2014
6	Dr. Jeanne Ayache	14.10.2014
7	Dr. Ivan Fortelny	14.10.2014
8	Dr.Rajesh A. Shenoi, University of British Columbia, Vancouver BC, Canada	22.08.2014
9	Dr.T.Sidhu Dean, Professor, Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Canada	31.07.2014
10	Dr. Bale.V.Reddy Professor, Faculty of Engineering and Applied Sciences, University of Ontario Institute of Technology, Canada	31.07.2014
11	Dr. Salim Albukhaty	22.07.2014
12	Dr. Maya Padivattathu	07.04.2014
13	Assoc. Prof. Dr. Dzaraini Kamarun, Centre for Industrial technology, Faculty of Applied Sciences, University Technology, Mara	17.06.2014
14	Dr. A. V. Ravikumar, Indian Institute of Plasma Research	14-03-2014
15	Prof Didier Rouxel, Institute Jean Lamour, University of Lorraine, Nancy, France	6th-8th March 2014
16	Prof .Vijaya Mohanan Pillai Nanomaterials for Energy Applications	30.04.2015
17	Volker Ribitsch (University of Graz. Austria)	21.04.2015

18	Mohamed Mehdi CHEHIMI (Research Director at French CNRS, Leader of the Surface & Interface research team, Université Paris, France)	06.03.2015
19	Dr. Maciej Jaroszewski(Head of High Voltage Laboratory Wroclaw University of Technology, Poland)	27.01.2015
20	Prof. Benjamin S Hsiao (Department of Chemistry, Stoney Brook University, New York)	20.01.2015



Statistics of invited lectures conducted by the University.

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

School	Activities done
School of Behavioural Sciences	: Coaching conducted by the faculty on various subjects.
School of Bio Sciences	: The school regularly conducts orientation programmes for the students to train them for UGC – CSIR examination. The faculty members also conduct examination in the respective subjects in time with the syllabi and examination pattern at the national level tests. Their attempts have helped many students to qualify NET examination.

School of Chemical Sciences	:	UGC-CSIR/ JRF/ NET/GATE Coaching, PSC coaching and job oriented job oriented training
School of Environmental Science	:	Communicative English coaching classes for M.Sc., M.Phil and Research students were arranged (weekly classes) to improve their communication skills.
School of Gandhian thought and Developmental Studies	:	The Coaching is organized at the University level. The school often provides physical space for holding such programmes.
School of Indian Legal Thought	:	Necessary Guidance is periodically given to students for various competitive examinations.
School of International Relations & Politics	:	Faculty members have given proper guidance for the students to take up IELTS, TOFEL, GRE and GMAT examinations.
School of Management and Business Studies	:	IELTS coaching
School of Pure and Applied Physics	:	Class by experts are arranged as and when required. Help of university career and information centre is utilized for advanced training.
School of Physical education and sports sciences	:	<ul style="list-style-type: none"> • Remedial coaching programme under UGC-Net coaching for backward community students for UGC-NET Examinations • No of students beneficiaries- Nine
School of Social Sciences	:	The students depend on the coaching classes conducted by the University. The School does not offer any special arrangements for that.
School of Tourism Studies	:	<ul style="list-style-type: none"> • Given general awareness for writing UGC – NET examination. • Remedial coaching for students .
School of Pedagogical Sciences	:	Remedial coaching for SC/ST students, coaching for UGC – NET examinations

5.6 Details of student counselling and career guidance

School	Activities done
School of Behavioural Sciences	: Counselling and career guidance are regularly given to the students. The service of Swanthanam Clinic is available for this purpose
School of Bio Sciences	: Counseling and career guidance has been given to the students periodically by the faculty members.
School of Chemical Sciences	: Meeting of students are organized to address their vision and help them to achieve this.
School of Distance Education	: Centers provide counseling and career guidance.
School of Environmental Science	: Weekly classes are conducted by School of Environmental Science for Communicative English for M.Sc., M.Phil and Research students to improve their communication skills.
School of Gandhian thought and Developmental Studies	: Individual faculty to individual students “- mode of student counseling and guidance.
School of Indian Legal Thought	: Strong placement cell for supporting placement and career guidance activities. Women cell conducted program named ‘Snehasparsham’ to strengthen women students.
School of Management and Business Studies	: Classes commence with induction programmes giving an orientation to the students which enables them to tailor cut their aspirations to go along with the needs of the industry.
School of Pure and Applied Physics	: Faculty members, as the member of each batch, give proper guidance to all students for their placement.
School of Social Sciences	: ‘Separate committees have been working for student counseling and career guidance.
School of Tourism Studies	: Counseling and career guidance has been given to the students
School of Pedagogical Sciences	: School counselling work is offered by providing students with a range of effective learning techniques, taking into account the training approach developed within Science

		disciplines.
School of Physical Education and Sports Sciences	:	Counselling service provide to students, the opportunity for any student to discuss in private any concerns which may be impacting on performance or personal health and well-being. Conducting atheletic meets provide more aspiration to the students.

- Students counselling and career guidance done by individual teachers regularly as a part of teaching responsibility. The service of Swanthanam Clinic of the department is also utilized for the purpose. Providing opportunity for student to discuss in private any concerns which may be impacting on performance or personal health and well-being
- Separate committees have been working for student counseling and career guidance. Strong placement cell for supporting placement and career guidance activities.

5.10 Scholarships financial support details

Fellowship	Number of awardees	Amount
Post-Doc*	02	276858
Junior research fellowship*	123	136,53,380
Senior research fellowship*		
Institutional fellowship		
International/national recognitions**		
Other fellowship*	-	-

**Specify the name of fellowship and provide the details including amount*

*** Specify the details of recognition*

6.1 State the Vision and Mission of the institution

Vision

Mahatma Gandhi University envisions excelling in the field of higher education and 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. Becoming a premier institution for international competence with world class learning programmes, teaching methods and cutting edge facilities in research and their by improve the quality of education, research and service to the society , in applied and of contributing to the prosperity of the nation is our vision.

Mission

Experienced researchers working in togetherness with the peers, supporting staff, administrative authorities and students towards specific academic or research goals, always appreciate the good leaderships while focusing individual contribution, encouraging periodic peer monitoring and self-evaluation exercises to keep the whole efforts in track with the set vision.

The University conducted academic programmes that led to the mobilisation and enhancement of the quality of human resources by imparting education in specialised areas of humanities and Social Sciences. The sustained and inclusive growth of the community has been kept in mind while organising the academic programmes, research projects and other activities of the University. The collaborative programmes organised during the year were intended to strengthen the linkage of the University with industry as well as the national and international academic community.

6.2 Does the Institution has a management Information System

No, the University does not have Management Information System

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum development

Our institution periodically updates the curriculum and syllabus in a systematic line of attack. The curricula of all the courses were revised and updated in order to meet the demands of the time. In the case of Schools, the faculty council revises curriculum and syllabus. The revision in the curriculum/syllabus mainly based on the class room experience with course content and scientific advancements in the similar field. The module of electives and dissertation project are designed in such a way to address the current/future requirements. Most Schools used ICT integrated teaching methods as well as new audio-visual methods for curricular transactions.

International and Inter University Centre for Nanoscience and Nanotechnology: Introduced Integrated M.Sc-Ph.D course recently. The centre has also introduced a new course on Nanosensors to keep pace with the developments of the present time. As nanoscience is a potential subject of the

future students of any discipline can study this subject under the university open course scheme. International & Inter University Centre for Nanoscience & Nanotechnology has completed massive open online course (MOOC), in collaboration with North Carolina A & T state university, USA and Kerala State Higher Education Council. Twenty five students attended the program and they were provided the certificates.

The interdisciplinary programmes being offered in the School, in the fields of Political Science, International Relations, Public Policy and Human Rights, continued to receive faculty level updating and innovations. The School sought to ensure that the changes put in place fall in line with the developments underway globally, across the political, economic, cultural and strategic landscape. The academic programmes were also reviewed and redesigned under the Credit and Semester System (CSS).

6.3.2 Teaching and learning

The University has developed a very effective, transparent and rigorous internal mechanism to assess the cognitive ability of students and research scholars as well as to ascertain the level of knowledge, intelligence and articulation they have acquired over time. Teaching and learning practices were done in a student centric manner. The faculties always incorporating updated research findings in the curriculum, to make the students enable to address research problems. The learning experience of the student also enhanced by the aid of field works, interaction with eminent personalities in their field of knowledge, visiting other institutions of premier importance. Students are accessible to e-journals and digital resources in 24X7 manner.

The teaching-learning pattern in the Schools and centres did not witness any significant shift during the year. However, they continued to maintain very effective, transparent and rigorous internal mechanism to assess the cognitive ability of the students and research scholars and to ascertain their level of knowledge, intelligence and articulation they have acquired over time. Group wise and individual wise periodic review sessions are arranged to monitor the levels of gap and to suggest remedial measures thereof. The Schools and Centers have sustained a learner-friendly, need-based instructional/learning system to equip the students and research scholars to meet the emerging challenges. Apart from the information based mode the instructional pattern inculcates values of theory-embeddedness, self-reflexivity and policy-alternatives. The learner-friendly instructional system seeks to foster cognitive-analytical skills of students and provides space for the empowerment of the disadvantaged in the learning process through informal counselling and tutorial interfaces. While classroom lectures continue to be an essential prerequisite for imparting knowledge, periodic seminars, book/article review sessions. Group interfaces provide the necessary intellectual climate for the learning and research in the Schools and Centers.

They have introduced a variety of information systems for lectures and seminars. The Schools and Centres have been sustaining a transparent, rigorous examination system under the CSS. The four semester pattern of MA involves mid-semester tests and end-semester examinations, seminar presentations, course-wise assignments such as book and/or article reviews, group interfaces and submission of a dissertation at the end of the fourth semester. The two-semester pattern of MPhil involves mid-semester tests and end-semester examinations and other course assignments. MPhil scholars have to submit a dissertation at the end of the second semester in a specialised area of the discipline. The Schools and Centres brought innovations in the evaluation process of various programmes since the introduction of the functional autonomy. The students are introduced to a

variety of academic interfaces through which individual as well as group performances are constantly monitored and assessed.

6.3.3 Examination and Evaluation

The academic programmes were reviewed and redesigned under the Credit and Semester System (CSS). University conducts all internal and external examinations as per the time table frame for each semester. The evaluation and publication of the result are also being done on a time bound manner without fail. The students are evaluated through their performance in internal and external examinations, assignments and seminars. The pattern of questions was modified in order to assess the different level of understanding of the subject matter by the students. Continuous internal assessments are made more effectively in a time bound manner.

The education process in any discipline of learning ends with examinations. Several committees and commissions were constituted from time to time to suggest reform in education in general and examinations in particular. Schools and Centers have introduced on-line examination for the internal assessment to improve the efficiency, reliability, transparency, and accuracy in the examination system. Schools and Centers have revaluation facility and provision for comparing the answer scripts with the scheme of valuation prepared by the experts enabled to redress the grievance of students and also to ensure the careful valuation by the teachers. The university has facility on “fast track system” to issue certificates to students within a month on the payment of extra fee.

At Mahatma Gandhi University, the evaluation is an integral part of teaching- learning process which includes tests, quizzes, assignments, semester work and project reports. The internal evaluation is the total responsibility of the teachers. The university also conducted immediate supplementary examinations to enable those students who fail in examination to reappear for the same.

To enhance the knowledge and skills of students, Schools and Centres have included internship, investigative projects, industrial training and seminars in the course of study for the continuous internal assessment.

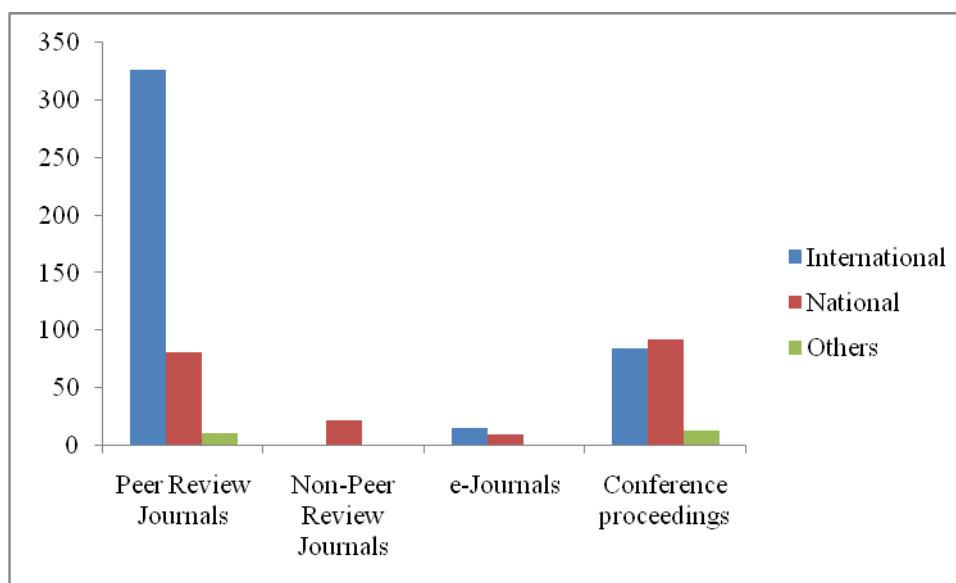
The heads of the concerned Schools and Centres will convene a meeting of the faculties to endorse the results. The results thus endorsed will be forwarded to the academic section for the necessary action.

6.3.4 Research and Development

Research programs are going on in different areas in collaboration with leading research institutions within India and abroad. These collaborations made possible the University to send their research students to different research labs of international repute. Some of the schools were conducting research programs specially focusing the community development. School of Tourism conducts projects on real time tourism management issues with social relevance using a problem based. They identified and grouped the tourism resources of Kerala and published a book titled ‘Tourism products of Kerala’. ABILITY project of School of Social Science being 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 continued to take interest in research and development activities by way of initiating studies on social policy making (such as the Rural Employment Guarantee Act) as well as through innovation in curricular development, teaching practices and social research engagements. The faculty members led three important consultancy studies on MGNREGS commissioned by the Government of Kerala-run State Institute of Rural Development.

See also annexure 3.4



Statistics of publications during 2014-2015

6.3.5 Library, ICT and physical infrastructure / instrumentation

MGU Library and Information System consist of University Central Library and more than 30 libraries of the departments, schools and study centers existing in different campuses. The most important achievement of the MG University Library is the endorsement related to the PhD Theses Archives developed by the University Library. The Mahatma Gandhi University is one of the first fifty Universities to come under the UGC-Infonet Programme. Through UGC-Infonet E-journals Consortium, the University library provides access to more than 4000 journals and databases. The University Library is a fully automated system using the library software package SOUL developed by the INFLIBNET Centre. The Library is also a member of the DELNET (Developing Library Network). Being a member of these networks, the library is able to share the resources of a number of other libraries and has been able to make inter library loan of books. INTUTE Open Access Online Service provides access to the very best web resources for education and research. The software packages used and all content included is evaluated and selected by a network of experts to create the INTUTE System. With millions of resources available on the Internet, it is difficult for researchers to find relevant and appropriate material even with good search skills and use of advanced search engines. Issues of trust, quality, and search skills are very real and significant concerns - particularly in a research context. The INTUTE database makes it possible to discover

the best and most relevant resources in one easily accessible place. Researchers can explore and discover trusted information, and be assured that it has been evaluated by specialists for its quality and relevance. MGU is the only university from India, which could host such an official digital archive of PhD theses in the web using multilingual software and search Mechanism (for Malayalam, Hindi and English). With selection of MGU PhD Theses archive by INTUTE the citations for dissertations from MGU will has increased tremendously in research in European countries and our research will get international exposure.

University Library at a glance

Item	Nos
Books	53551 (as on 17-10-2015)
Journals - Foreign	49 (List of journals)
Journals - Indian	204 (List of journals)
Journals – Bound	7432
Newspapers	16
Popular Magazines	30
Ph. D Theses	2091

Library collection

Item	Nos
Books	53551 (as on 17-10-2015)
Journals - Foreign	49 (List of journals)
Journals - Indian	204 (List of journals)
Journals – Bound	7432
Newspapers	16
Popular Magazines	30
Ph. D Theses	2091

Name of E-resources	Nos
E-journals - UGC Infonet	7500+
Online Databases - UGCInfonet	11 (Including SciFinder Scholar)
E-journals – Subscribed (Archives)	185 Titles <ul style="list-style-type: none"> • Sage Publishers - 23 • Cambridge University Press - 15 • Wiley Publishers - 40 • Springer - 107 (Chemistry and Materials Science)
Online databases - Subscribed	4 <ul style="list-style-type: none"> ● EBSCO (Academic Search Complete) ● J GATE PLUS ● LISA ● ProQuest Dissertation and Thesis
E-books	2500
CD-ROM Databases/Reference Books	390

Standards & Packages used by the Library

Classification Scheme	DDC (Dewey Decimal Classification)
Cataloguing Code	AACR 2
List of Subject Indexing	LC List of Subject Heading
Library Management Software	KOHA
Digital Library Package	Nithya d'Arch

ORGANISATION OF THE LIBRARY

Library functions and services are organised under the following Sections

- Acquisition Section
- Technical Section
- Circulation Section
- Maintenance Section
- Periodicals Section
- Documentation Section
- Union Catalogue (Centre for Digital Archiving) Section
- Administration Section
- Procurement and Accessioning of Books and E-books
- Arranging Book Purchase Committee
- Online book suggestion facility

Physical Facilities

The available physical infrastructure is optimally utilized beyond regular college hours to conduct certificate courses , co-curricular activities/extra-curricular activities, parent teacher meetings, campus recruitments, meetings, seminars, conferences etc., Each department in the university has the following physical infrastructure

- Library
- Wi-fi connectivity
- Printer
- Photocopier
- Refrigerators
- Scanner
- The students are offered facilities like OHP and LCD projectors for their seminar presentations and other academic and extracurricular programmes and projects.
- Class rooms are well equipped with furniture, computers with internet facility, lap top, printer
- Nature club
- Director's office
- Staff room

- Laboratory equipments
- Aqua guard units on each floor ensure pure drinking water.
- Cleaned bathroom
- Botanical garden
- Store room for chemicals

Laboratory facilities

- NanoBiology lab
 - Autoclave
 - Carbon dioxide incubator
 - Centrifuge 18000 rpm
 - Cooling Centrifuge
 - Dessicator
 - Double distillation unit
 - Laminar air flow system
 - Optical microscope
 - Biosafety cabinet
 - Millipore water purifying unit
- Characterization lab
 - High Resolution Transmission Electron Microscope
 - Atomic force microscope
 - Contact angle measurements
 - Dielectric measurement system
 - Differential scanning calorimetry
 - Humidity meter
 - Optical microscope
 - Porosity meter
 - Rheometer
 - Scanning electron microscope
 - Spectrometer IR
 - Spectrometer UV
 - UTM
 - XRD
 - TMA
 - Permeability meter
 - TMA
 - Impact meter
 - Multifunctional rheometer

Advanced Materials laboratory facilities

- Magneto- Electric coupling set up
- Resistivity measurement set up
- Vector network analyzer
- Laser
- plasma characterization
- Z scan
- NMR

Recent purchases

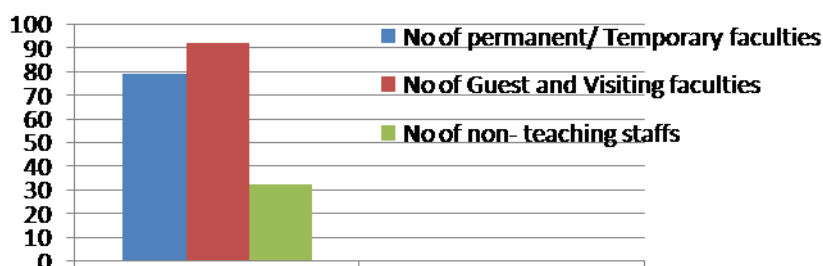
PLD apparatus (1 no)

Turbomolecular pump (1 no)

6.3.6 Human resource management

University has adequate number of administrative staff and satisfactory number of academic staff including faculties on contract basis. Faculty student ratio at Schools and Centres is 1:2. The academic staffs were undergone refresher programs, conferences, seminars and academic exchange to enrich their knowledge, teaching and research experience. Faculty members have opportunity for their carrier growth along with the institutional development. Newly appointed faculties got a preparatory amount to start their lab and research activities. Administrative staffs were also exposed to internal and external training programs for quality improvement. Newly appointed faculties got a preparatory amount to start their lab and research activities. The achievements of the staffs and students are recognized with appreciation and by honouring them. Various cultural and social clusters were formed by students and staffs, organizing recreational events, social mobility programs, environmental campaigns etc. Workshops and orientation programmes are conducted for the Faculty development and practice teaching and school internship for student development. Orientation programme is also conducted for students appearing for NET with support from Guidance bureau. Training on 'Ubundu' is given by Centre for High Performance Computing, for the support staffs.

The statistics of average no. of permanent/ temporary faculties, visiting faculties and non-teaching faculties in the schools are given below.



6.3.7 Faculty and staff recruitment

The recruitment of the faculties was done according to the UGC Regulation. Advertisement regarding the vacancy, details regarding qualification etc will be given in the leading newspapers and university website. The expert committees including external subject experts will short list the application. The selection committee comprising the eminent scholars in each area will evaluate the research and teaching talent of the candidate. If the candidate is getting through in the process he/she will be recruited. Non-teaching staff also had done according to the UGC, State government and University statutory procedures.

6.3.8 Industry interaction/Collaboration

Most of the schools of the university have industrial relationship in their discipline. In School of Environmental Science, School of Chemical Sciences, School of Bio Sciences etc persons from Industries such as Agilent, Shimadzu, Perkin Elmer, Thermo were conducting classes and workshop on the advancement in their respective field, new instrumental technologies etc. In School of Tourism studies, SMBS like departments expert from hospitality industry takes classes. They also provide Internship opportunities are provided by known institutions. Active industry involvement in the form of internship opportunities and placement to these departments. School of Environmental Science like departments has collaboration with Department of Forests and Wildlife, Government of Kerala, Periyar Tiger Reserve, Thekkady etc.

The School of International Relations And Politic has three memoranda of understanding (MoU) signed with three universities/institutes. An 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 since 2008. 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 the SIRP in accordance with the memorandum of understanding (MoU) signed with the Institute of Chindian Studies, Jinan University, China in 2011. During 2014-15, a scholar from China visited the School and offered lectures on China.

In order to strengthen academic communications, advance and propagate knowledge a MoU has signed between IIUCNN and the centre for nanocellulose future composite at INHA UNIVERSITY. MoU between IIUCNN and Yerevan University, Armenia, had submitted to MG university office.

6.3.9 Admission of the students

Centralized Allotment Process for admission to UG&PG Programmes under merit/reservation seats. Through CAP an applicant can access several colleges/Programmes by putting in a single application online. It saves time, money and effort of the candidates seeking admission to courses/Programmes in affiliated colleges of MG University. The placement of the candidates in

various programmes and institutions will be according to their choice, merit and socially determined norms.

6.4 Welfare schemes for

Teaching

- University has issued an order on giving honorarium for publications and patents based on the merit.
- Faculties have given separate residential facilities in the campus.
- University has a crush to look after the children of the faculty.
- We have a medical facility from 9 to 5 in the campus to safe guard the health issue of the faculties and students.
- Faculties have given medical reimbursement, LTC, weightage to the children for admission in professional colleges managed by the University.
- Faculties have given permission for their own association to discuss their academic programmes and problems.
- Gymnasium facilities are available for the faculties.

Non-Teaching

- Non-teaching staffs have given separate residential facilities in the campus.
- University has a crush to look after the children of the non-teaching staffs.
- We have a medical facility from 9 to 5 in the campus to safe guard the health issue of the employers.
- Employers have given medical reimbursement, LTC, weightage to the children for admission in professional colleges managed by the University.
- Employers have given permission for their own association to discuss their academic programmes and problems.
- Gymnasium and sports facilities are available for the employers.

Students

- Students are given campus accommodation.
- Students are given insurance coverage's.
- SC/ST students are given free accommodation and food.
- Gymnasium and sports facilities are available for the employers.
- Students' organizations are active in the campus for their betterment.
- Financial support is provided for the eligible students.
- Scholarships and fellowships are provided for the eligible students.
- Grievance cell is functioning inside the campus to solve the complaints of the students.
- Career guidance and counselling are given to the students.
- Permissions were granted to organize cultural events inside the campus.

6.11 Activities and support from the Alumni Association

The Alumni Association of the School (IRAA) has been functioning at different levels. There is Delhi chapter of IRAA also. The students of the School are found in several walks of life, engaged in a variety of professions. Apart from India, they are working /studying in countries such as France, China, Japan, Kirgizstan, Ghana, Chad, Nepal, Kenya, Sudan, Ethiopia and Vietnam, Namibia etc. Similarly, many live and work in the United States, United Kingdom, Canada, Austria, Poland, Kenya, Saudi Arabia, China, Oman, and Switzerland. They include teachers in universities, colleges and other educational institutions, and research positions in embassies of various countries. Several of the students are pursuing research in well-known institutions. Most of the important newspapers in India and abroad have the former students of the School on their staff.

In the school of School Of Pedagogical Sciences, there is a strong Alumni constituted for the Department, which plays a prominent role in the conduct of certain major events such as observation of Teacher's day under the banner "Gurusameeksha". In this august function, Teacher's rank holders and top achievers among old students are duly honoured and their services are commemorated. The Alumni also renders yeoman services in the form of offering books and reference materials, free of cost to the needy students, who are socially and economically backward. The Executive committee of the Alumni convenes meetings as and when required.

6.12 Activities and support from the Parent – Teacher Association

Mahatma Gandhi University has established a forum through which parents and teachers can exchange information and research in relation to education/ welfare of children. The parent association can play their role by finding out what information parent would like or need. They have contribution to school news letter. PTA helps the teachers to set up an information meeting for parents of a particular class. PTA provides support to teachers in delivering the curriculum.

Under PTA's support all developments within the academic and non academic area take place. As and when required, meetings of the Executive Committee are convened by the Director in consultation with the President, PTA. The PTA open houses offer venues of sharing and interaction and it gives paramount importance in ensuring a healthy and congenial academic atmosphere in the university. For the timely improvement, feedbacks are openly discussed. PTA acts as an informal advisory body for framing celebrations that are being observed in the School such as Onam, Christmas, Eid-ul Fitar and sports meet.

There is a total involvement of parents in the day to day activities especially farewell functions, tournament etc. PTA provides prizes to encourage the students in various fields such as academic and cultural fields. Drinking water facilities and cleanliness is also look after by the PTA. Free lunch to needy students is another important activity of PTA.

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

The faculty and research scholars collaborated in various impact assessment studies having a direct bearing on social policies and programmes. The three districts level outreach studies on the MGNREGS undertaken in collaboration with the State Institute of Rural Development (SIRD) provided opportunities to have firsthand experience at the micro level. The life-world experiences of the MGNREGS workers, besides the insights derived on the challenges and problems faced by

them brought to light through focus group discussions, workshops and field surveys, set the pace for a new approach to understanding social issues through people-to-people interfaces in appropriate locations. This is expected to draw the university closer to society and its genuine issues of livelihood security, health hazards and environmental challenges. A team of students and teachers also visited Attappady region during the year, in the background of the increasing incidents of child mortality and women abuses, to study the transformation occurred in Hills over years. The woes of tribals, in fact, opened the eyes of the team. Thus, the researchers and faculties involved in these studies have benefitted from their field experience. This, obviously, has generated a positive view of the University and its socially committed studies and research.