



MAHATMA GANDHI UNIVERSITY

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

Annual Quality Assurance Report

[2011-12]

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:

Prof. (Dr) Rajan Gurukkal P M

Tel. No. with STD Code:

+914812731001

Mobile:

+919447120845

Name of the IQAC Co-ordinator:

Dr.P. P.Raveendran

Mobile:

9447120845

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:

http://mgu.ac.in/index.php?option=com_content&view=article&id=1648&Itemid=1619

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)*

2011-12

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

Yes

No

Type of Institution	Co-education	<input checked="" type="checkbox"/>	Men	<input type="checkbox"/>	Women	<input type="checkbox"/>
	Urban	<input type="checkbox"/>	Rural	<input checked="" type="checkbox"/>	Tribal	<input type="checkbox"/>
Financial Status	Grant-in-aid	<input type="checkbox"/>	UGC 2(f)	<input checked="" type="checkbox"/>	UGC 12B	<input checked="" type="checkbox"/>
	Grant-in-aid + Self Financing	<input checked="" type="checkbox"/>	Totally Self-financing	<input type="checkbox"/>		

1.11 Type of Faculty/Programme

Arts	<input checked="" type="checkbox"/>	Science	<input checked="" type="checkbox"/>	Commerce	<input type="checkbox"/>	Law	<input checked="" type="checkbox"/>	PEI (Phys Edu)	<input checked="" type="checkbox"/>
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TEI (Edu)	<input checked="" type="checkbox"/>	Engineering	<input checked="" type="checkbox"/>	Health Science	<input checked="" type="checkbox"/>	Management	<input checked="" type="checkbox"/>
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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	<input type="checkbox"/>	UGC-CPE	<input type="checkbox"/>
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DST Star Scheme	<input type="checkbox"/>	UGC-CE	<input type="checkbox"/>
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UGC-Special Assistance Programme	<input type="checkbox"/>	DST-FIST	<input checked="" type="checkbox"/>
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UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

Inter University Centres established in 2011-12:

- a. Inter University Centre for Biomedical Research & Superspeciality Hospital (IUCBR & SSH)
- b. Inter University Centre for Studies in Science of Music (IUCSSM)
- c. Inter University Centre for Disability Studies (IUCDS)
- d. Inter University Centre for Social Science Research & Extension (IUCSSRE)

Inter School Centres established during 2011-12

- a. Institute of Intensive Research in Basic Sciences (IIRBS)
- b. University Centre for International Co-operation
- c. Institute of Contemporary Chinese Studies
- d. KN Raj Study Centre for Planning and Centre State Relations

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="9"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="Nil"/>
2.3 No. of students	<input type="text" value="Nil"/>
2.4 No. of Management representatives	<input type="text" value="2"/>
2.5 No. of Alumni	<input type="text" value="Nil"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="Nil"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="Nil"/>
2.8 No. of other External Experts	<input type="text" value="03"/>
2.9 Total No. of members	<input type="text" value="14"/>
2.10 No. of IQAC meetings held	<input type="text" value="Four"/>
2.11 No. of meetings with various stakeholders: No.	<input type="text" value="1"/> Faculty <input type="text" value="1"/>
Non-Teaching Staff /Students	<input type="text" value="1"/> Alumni <input type="text" value="1"/> Others <input type="text" value="1"/>
2.12 Has IQAC received any funding from UGC during the year? Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/>
If yes, mention the amount	<input type="text" value="Rs 4.5 lacs"/>

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

- i. One day workshop on "Teaching Learning Process" was conducted at the School of Computer Sciences
- ii. Organised one day Seminar on "towards Synthesizing styles of Multimethodes Research" at the School of Pedgogical Sciences on 29th June 2011
- iii. Organised one day workshop on " Total teacher transformation" at the School of Pedgogical Sciences on 11/11/2011
- iv. Organised colloquium on "Teachers and Social justice Building" at the School of Peadgogical Sciences on 11th Nove 2011

2.14 Significant activities and contributions made by IQAC

- a. Organised two National Seminars and two Institutional Level Seminars related to Quality Assurance in University
- b. Organised International Book fair and lecture series of eminent scholars and academicians as part of innovative activities and new initiatives of the University
- c. Two orientation programmes were conducted for the teaching faculty of the University
- d. The syllabi and curriculum of the post graduate programmes conducted in affiliated Arts & Science Colleges were revised as per the CSS pattern as recommended by the IQAC
- e. Four Inter University Centres and Four Inter School Centres were established following the recommendation from the IQAC
- f. Proposals for the establishment of more Inter School Centres have been prepared and submitted to the funding agencies for financial assistance
- g. Decision was taken to bring all the UG & PG programmes conducted in affiliated colleges under the purview of CAP from the year 2012 following a recommendation from IQAC.
- h. Decision was taken to facilitate admissions to PG programmes conducted in the Schools and Departments of the University through Centralised Allotment Process from the year 2012 following a recommendation from IQAC.
- i. Academic and Administrative Audit (AAA) was conducted in all Schools and Departments of the University
- j. CBCSS was introduced for B Ed programmes
- k. Workshops were conducted by respective Board of Studies for improving the curriculum
Established a new Centralised Computer Wing in the Pareeksha Bhavan exclusively for the examination purpose
- l. Computers were provided to all tabulation sections
- m. As per the regulations for Under Graduate Programmes under Choice Based Credit Semester System and Grading, the Semester breaks/vacation for one month each was given in the months of November and May instead of April-May vacation from the current academic year
- n. University level workshops on Open Courses were conducted at Pathanamthitta, Kottayam and Ernakulam districts for the members of the Board of Studies and teachers of the affiliated colleges
- o. University introduced online generation of hall tickets for the CBCSS programmes
- p. Bar coded stitched answer books were introduced for the CBCSS
- q. Developed softwares for the Online transmission of valued data (Grades) from valuation camps/affiliated colleges to the examination wing

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
Revision of syllabi and curriculum	Syllabi and curriculum of the Post Graduate programmes conducted in the affiliated Arts & Science Colleges were revised in Credit and Semester System (PG CSS 2012). Syllabi and curriculum are frequently updated by the respective faculty councils with the formal approval of the CSS Academic Advisory Committee.
Establishment of Inter University Centres for promoting interdisciplinary research and for promoting collaborative research work among the research and academic institutions within the state	Following Inter University Centres were established with Government of Kerala support in the year 2011-2012: a. Inter University Centre for Biomedical Research & Superspeciality Hospital (IUCBR & SSH) b. Inter University Centre for Studies in Science of Music (IUCSSM) c. Inter University Centre for Disability Studies (IUCDS) d. Inter University Centre for Social Science Research & Extension (IUCSSRE)
Establishment of Inter School Centres for supporting the academic activities of the Schools / Departments	Following Inter School Centres were established with financial support from various funding agencies in the year 2011-2012 a. Institute of Intensive Research in Basic Sciences (IIRBS) b. University Centre for International Co-operation c. Institute of Contemporary Chinese Studies d. KN Raj Study Centre for Planning and Centre State Relations
Academic and Administrative Audit	Academic and Administrative Audit was conducted in all the Schools and Departments
To resume the work related Campus Wide Network	Campus Wide Network has been completed in the campus.
To conduct one day workshop for the faculty members, alumni, students and stakeholders on	The workshops were conducted for the faculty members, alumni, students and

various themes to be suggested by the IQAC for quality enhancement	stakeholders
Implementation of UGC regulations on appointment of faculty members	UGC regulations on appointment of faculty members were implemented 01/08/2011 vide UO no. 4233/1/Ac Ad/2011
Organising an academic carnival along with International Book Fair and Brain Storming Sessions lead by eminent scholars	Organised 10 day long International Book Fair (INBOFA) and Brain Storming Sessions lead by Dr. C NR Rao, Scientific Advisor to the Prime Minister, Prof Romila Thapar, Ambassador T P Sreenivasan, Chairman, Kerala State Higher Education Council, and Sri. Anand, Smt Sara Joseph, noted writers.
Modernisation of Examination Procedures	The genuine modernisation of the University System, especially the examination related activities are being carried out in a big way 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.
Syllabus revision by Board of Studies	The respective board of studies in various programmes conducted workshops for improving the curriculum. Curriculum review workshops are organised in Malayalam, English, Sanskrit, Tamil, Music, Chemistry, Botany, Physics, Mathematics, Commerce, History, Aquaculture and fisheries, Philosophy, Sociology, Economics Board for studies at various College and in the University.

2.16 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

The AQAR was placed in the Syndicate dated 18/12/2015 by the Vice Chancellor

Part - B (2011- 12)

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	52	2	1	
PG	57	2	22	
UG	2	0	19	
PG Diploma	3	0		
Advanced Diploma	0	-	-	
Diploma	2	-	-	
Certificate	13	-	-	
Others	1	-	-	
Total	130	4	42	
Interdisciplinary	18	1		2
Innovative	9			2

Please see annexure 1.1

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

(ii) Pattern of programmes:

Pattern	102
Semester	94
Trimester	-
Annual	18

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 Faculty council of the schools updates the syllabi periodically to integrate the latest knowledge. Every semester, the syllabi and the regulations undergo stern assessment by the Faculty Council of each school. University have resorted to incorporate more interdisciplinary component in the syllabi. Open courses from various disciplines with freedom of choice and with sufficient credits were introduced in each programme during the year. Five year Integrated Inter disciplinary M Sc programmes in Basic Sciences and MS and M Phil programmes in Nanosciences were introduced in the Interschool Centres of the University. The PhD regulations of the UGC have been implemented in the University without any delay. The CSS Academic Advisory Committee has been constituted to continuously monitor and evaluate the Credit and Semester System followed in the University Schools and Departments. The CSS Academic Advisory Committee has recommended commencing M Tech Programme in School of Computer Science in the year 2012-13. The respective board of studies in various programmes conducted workshops for improving the curriculum. Curriculum review workshops are organised in Malayalam, English, Sanskrit, Tamil, Music, Chemistry, Botany, Physics, Mathematics, Commerce, History, Aquaculture and fisheries, Philosophy, Sociology, Economics Board for studies at various College and in the University.

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

- a. Inter University Centre for Biomedical Research & Superspeciality Hospital (IUCBR & SSH)
- b. Inter University Centre for Studies in Science of Music (IUCSSM)
- c. Inter University Centre for Disability Studies (IUCDS)
- d. Inter University Centre for Social Science Research & Extension (IUCSSRE)
- e. Institute of Intensive Research in Basic Sciences (IIRBS)
- f. University Centre for International Co-operation
- g. Institute of Contemporary Chinese Studies
- h. KN Raj Study Centre for Planning and Centre State Relations

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	100	44	29	27	172 + 496

2.2 No. of permanent faculty with Ph.D. 87

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
	5	15	4	4	1	5	-	-	10	24

2.4 No. of Guest and Visiting faculty and Temporary faculty 79 46 47

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/	81	142	47
Presented papers	86	118	39
Resource Persons	37	66	43

Please see annexure 2.5

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

Many of the schools are having interactive E- learning facilities which enable us to learn in interactive modes from various other leading institutions across the country. 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 art electronic facilities. 24X7hr 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 have introduced MOOC programmes in Nanoscience & Nanotechnology and Environmental Science. University have online repository of digitized theses of doctoral degrees awarded so far. Most of the University Departments/Schools have smart classrooms especially ICT enabled classrooms for conducting seminars and facilitating participatory education. Extensive filed work, online interactive session with the academicians and researchers worldwide. University have introduced formative and summative assessment index and open book system course assessment.

Please see annexure 2.6

2.7 Total No. of actual teaching days during this academic year 179

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 60 48 38

2.10 Average percentage of attendance of students 87

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	325	31	271	18	97.56
PhD Course Work	137 44 <small>(provisionally registered)</small>	-	-	-	-
UG	15	2	7	6	87
M Phil	73	1	67	2	88.31
Others	154	-	76	78	100

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

IQAC conducts periodic meetings to monitor the academic programmes of various academic Schools/Departments and makes suggestions and recommendations in the department council. The IQAC team prepares strategies at Schools/Department level for qualitative teaching and research. Periodic Academic Audit and assessment based on PBAS furnished by the teaching faculty is carried out by the IQAC and evaluation reports are sent to each Head of the Department/School for compliance. IQAC have organised a state level workshop on finalization of the profuse pathways of MED CBCSS curriculum at School of Pedagogical Sciences, a one day seminar *“Towards Synthesising styles of Multimethods Research”* at School of Pedagogical Sciences and organised a regional seminar *“Right to Education at the Kerala Context”* at School of Pedagogical Sciences. IQAC have also organised one day workshop on *“Total teacher transformation”*, and a national colloquium on *“Teachers and Social Justice Building”*.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	12
UGC – Faculty Improvement Programme	2
HRD programmes	7
Orientation programmes	14
Faculty exchange programme	6
Staff training conducted by the university	9
Staff training conducted by other institutions	11
Summer / Winter schools, Workshops, etc.	30
Others	5

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	1041	51	51	57
Technical Staff	423	22	15	0

Criterion – III

3. Research, Consultancy and Extension

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

- ✓ Regular report presentations and discussions are organized. Motivated research paper presentations in the classroom.
- ✓ IQAC closely monitors the progress of research in various fields, make discussions with the faculty members, give suggestions for improvement and inspires the research students. The IQAC has been instrumental in designing the sophisticated instrumentation for analytical work. Several new projects were framed based on the recommendations of the IQAC.
- ✓ Encouraged faculty and faculty student co-publicizing by undertaking short term workshops. Places suggestions before the faculty council and Board of Studies on different academic matters including design of the curriculum, teaching research, programmes and new course of study.
- ✓ Various Schools/Departments/Centres has taken steps to organize workshops / Seminars / training programmes / invited talks there by giving the students an opportunity to understand the current thrust areas and get into research programmes.
- ✓ The IQAC of the School of Tourism Studies urge the students to undertake community projects on real time tourism management issues with social relevance using a problem based learning approach and it offered real and practical value to them as student and future managers. Data collection, project management and case study are done by the students in consultation with local tourism / leisure industry suppliers and are guided by the faculty of the Department. The programme is monitored and evaluated accordingly and is used to refurbish the acquired knowledge. Faculty continues ongoing evaluation and does individual research on relevant topics and is used to acclimatize with the syllabus and distribution of knowledge.
- ✓ Inter University Centres have been established for promoting the interdisciplinary participatory research among the research and academic institutions within the State.
- ✓ Inter School Centres have also been established for supporting the academic activities of the Schools/Departments of the University.
- ✓ The Department of Life Long Learning and Extension have been acting as a Centre for coordinating the extension activities.
- ✓ Seminar on Research Methodology was organised from 3rd May 2011-10th May 2011
- ✓ Majority of the proposals submitted to various funding agencies and the proposals submitted to the State Planning Board and the UGC are envisaged to promote research

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	11	30	7	29
Outlay in Rs. Lakhs	411.4	1364.96	427.36	223

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	7	6	0	3
Outlay in Rs. Lakhs	10.85	11.9	-	19

3.4 Details on research publications

	International	National	Others
Peer Review Journals	136	82	10
Non-Peer Review Journals	6	24	3
e-Journals	21	4	1
Conference proceedings	102	101	2

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, ICSSR, UGC, DBT, ICMR, KSCSTE, SERB, DST ISRO, DRDO, SAP, DRS, FIST, BRNS, Indo French, ARCUS fund, ICSSR, KSHEC	646.04	364.59
Minor Projects	1Year	UGC, DAE -IUG, MANGO Languages in USA	11.2	11.03
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	SAIL	2.9	2.9
Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	-	-	-	-
Any other(Specify)	-	SAP & UGC	8.51	8.51
Total			668.65	387.03

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 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	9	26	3	24	10
Sponsoring agencies	University of Colombo, MGU	KSCSTE,NDMA Govt of India, UGC& MGU& Alumni	MG University	KSCSTE, Bioscience Forum & 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	Nil
	Granted	Nil
International	Applied	2
	Granted	Nil
Commercialised	Applied	Nil
	Granted	Nil

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
18	3	6	5	4	-	-

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

88

290

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

123

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

JRF 75 SRF 15 Project Fellows 27 Any other 19

3.21 No. of students Participated in NSS events:

University level 133 State level Nil

National level 1 International level Nil

3.22 No. of students participated in NCC events:

University level Nil State level Nil

National level Nil International level Nil

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 13 College forum 5

NCC Nil NSS Nil Any other 6

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:

- ✓ Facility for analysing drinking water quality and microbial contamination is made available in the School of Environmental Sciences on nominal charges. Facility for analysing soil quality for agricultural purpose has also been made
- ✓ Actively participate in mission of relieve the water scarcity problem in the Kuttanad region of Kerala.
- ✓ Conducts activities like; Life skill education for adolescents, Counseling services, mental health programmes, sensitization and awareness programmes etc.
- ✓ Departmental student's forms conduct programs in connection to international and national days to disseminate academic knowledge to common people
- ✓ Conducting quiz competitions, poster exhibitions, skits, seminars, workshops etc. Cleaning operations. Hoisted stalls in INBOFA
- ✓ Conducting projects for the differently - abled, school children to make them equal access to academic environment
- ✓ Create collaboration with industries, tourism sector and related institutions
- ✓ University involved in various social activities such as documentation, collection and dissemination of traditional knowledge on agriculture, medicine, water conservation etc
- ✓ Department of Life Long Learning and Extension is conducting lot of activities to propagate the idea of Organic Farming among the masses as part of the extension activities
- ✓ University is coordinating organic farming programmes and demonstrations in various affiliated colleges of the University
- ✓ The School of Environmental Sciences has launched a major extension programme known as 'Rainwater for Humanity' in collaboration with the Brown University (USA), Athirampuzha Grama Panchayat and the Self Help Groups (www.rainwaterforhumanity.org). As part of this programme, the School has installed 1 community rainwater harvesting structure with a capacity of 1.1 lakh litres and 7 ten thousand litre capacity harvesting tanks at Achinakam village in Vechoor Grama Panchayat in Kuttanad region during December 2009. Construction of additional rainwater harvesting tanks is in progress.

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	-	University Fund/State Plan Fund	
Class rooms	73+295	3+50	University Fund/State Plan Fund	76+345
Laboratories	71+113	21	University Fund/State Plan Fund	71+134
Seminar Halls	14+38	1		14+39
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	120 + 112	48	University Fund, UGC XI Plan, SAP, DRS, SAIL, Govt of Kerala, Project Fellowship	120+160
Value of the equipment purchased during the year (Rs. in Lakhs)	75.52 + 52.56	85.5 + 43.25	do	161.02 + 95.81
Others	15	0.70	MGUF, Govt. Of Kerala	15

4.2 Computerization of administration and library

The activities and services of the University Library are automated using the Open Source Library Management Software KOHA. For the effective implementation of KOHA system, Library has conducted two in house training programmes, a four day in-house training programme for the library staff of the University Library and Department of Libraries. A KOHA server is being maintained by the University. Computerization of Administration and Library services are going on. In addition to the University Library, most of the department libraries are also using the KOHA software for library management.

Mahatma Gandhi University is the first Indian University to adopt Open Access to theses of doctoral degrees awarded by the University by establishing an institutional repository of theses (www.mgutheses.org). Mahatma Gandhi University is the first University to sign MoU with INFLIBNET in the submission of online theses into “Shodhganga” and as per the latest statistics available, the University is holding the fifth position among the contributing Universities. The library is providing access to a considerable number of e journals throughout the University Campus.

Please see Annexure.4.2

4.3 Library services: (Information from University Library to be received)

	Existing		Newly added		Total	
	No.	Value (Lakh)	No.	Value (Lakh)	No.	Value (Lakh)
Text Books	135446	42183050	16760	4563979	152206	46747029
Reference Books	14935	4366067	407	1329851	15342	5695918
e-Books	2500	-	-	-	2500	-
Journals	368	438005	39	55820	407	4435870
e-Journals	11001	-			11001	-
Digital Database	42	737456			42	737456
CD & Video	1226	14000	26	5000	1252	19000
Others (specify)	15419	3600	5	7200	15424	10800

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	683	23	Internet Connection of 100 Mbps bandwidth is available throughout the campus	18	21	46	32	NIL
Added	59	3		0	3	0	0	NIL
Total	742	26		18	21	32	32	NIL

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

- ✓ High speed internet connectivity and state of art technology have been made available to the all the Departments, Schools, academic Centres as well as to the academic, administrative, finance and examination wings of the University.
- ✓ University has introduced Centralized Allotment Process for PG programmes in the year 2010 and Centralized Allotment Process for UG Programmes first time in the country in the year 2011. The success of the Centralized Allotment Process has been a milestone in the history of the University and shows the technological competency of the University.
- ✓ Various types of online facilities such as registration for centralized admissions, examinations, grievances, examination results etc are available to the students. Mobile applications are also available for checking examination results and filing grievances online. Facility for online filing of grievances has been made available in the Centralized Allotment Process website and the grievances/queries are redressed/attended on the very same day.

- ✓ All the faculties, students and staffs have unlimited access to internet of 100mbps bandwidth. Internet connection to the schools, administrative wings and allied offices are secured through advanced firewall systems (sonic wall). All the Departments/Schools/Inter University Centres/Inter School Centres of the University are connected through high speed campus wide network and Wi-fi facility has been made available where ever necessary for easy access to digital resources. The network activity of the campus is strictly monitored by network administrators to prevent inappropriate use and prevent chances of digital hacking. Network polices of the university undergo revisions according to the students, faculty and staffs opinion.
- ✓ Training and refresher courses were given to students and faculties for the use of UGC-Inflibnet services and use of digital consortium encompassing thesis in digital format.
- ✓ Centre for High-performance Computing, student's web centre, printing facilities and internet kiosk are available in campus. Besides this, each school have their own computer lab and each departmental library are connected through specialized network. All e-journals are available in the campus network.
- ✓ A-View online facility is used for conducting online courses (eg: GIS and remote sensing course in association with ISRO&IIRS in school of Environmental sciences), broadcasting of seminars and Skype and similar facilities are frequently used for research meetings.
- ✓ University has a well established Software Development Team which has been engaged in the development of various types of software required for the various branches of the University.
- ✓ Each student has been provided with a Permanent Registration Number (PRN) at the time of admission which shall be used for all future interactions and activities of the student with the University. The concept is to minimise procedural delays by establishing Single Window System for all services o the students.
- ✓ Training on familiarizing the University employees to various free software available worldwide has been initiated by the Centre for High Performance computing.

See Annexure 4.5 for details.

4.6 Amount spent on maintenance in lakhs :

i) ICT	101.717
ii) Campus Infrastructure and facilities	1234.95
iii) Equipments	108.203
iv) Others	168.12
Total :	1612.99

Criterion – V

5. Student Support and Progression

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 for GATE/NET/SET is given by the Career Guidance Bureau.

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.

Please see annexure 5.2 for details.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
149+5179 (SF)	551 + 641 (SF)	261	162

(b) No. of students outside the state

9

(c) No. of international students

11

Men:

No.	%
3640	52.43

Women:

No.	%
3303	47.57

General	3200	3430
SC	937	901
ST	154	133
OBC	2213	2456
Physically challenged/others	17	23
Total	6521	6943

Demand ratio- 1:7 Dropout % - 10

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

A Career Guidance Cell is functioning in the University coordinating Coaching classes for NET examination especially for SC, ST, OBC and other minorities. They also conduct spoken English classes, personality development activities, career guidance and proper orientation for the students. A faculty member is in charge to observe those activities.

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>		
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Organizations Visited	Number of Students Participated	Number of Students Placed
33	49	33	16	269	133

5.8 Details of gender sensitization programmes

A Women anti-harassment Cell is functioning in University. Services of the Cell can be utilized by students and employees to lodge their grievances. As a part of regular teaching gender sensitization programmes are done in School of Behavioral Sciences. Also seminars are conducted in the department and also in the University on gender basis. The school of chemical sciences organized and celebrated Women's Day. The School of Gandhian Thought and Development Studies organizes Women's Day every year. A course on women and Development is taught for MA Development Studies. Class Seminar on gender issues was conducted on School of Indian Legal Thought. School of Pedagogical Sciences celebrated Women's Day and Mother's Day in the department. In the School of Social Sciences 'Gender Studies' is included as a component in Social Theory course offered for MA and M Phil Programmes. School of Tourism Studies celebrated International Women's Day with Seminars conducted at University Level. The School of International Relations had arranged for interactions on themes based on gender equality, human rights and inclusive strategies.

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

State/ University level National level International level

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	42	11.2
Financial support from government	173	53
Financial support from other sources	27	31.27
Number of students who received International/ National recognitions	8	0.13

5.11 Student organised / initiatives

Fairs: State/ University level	<input type="text" value="3"/>	National level	<input type="text" value="1"/>	International level	<input type="text" value="Nil"/>
Exhibition: State/ University level	<input type="text" value="4"/>	National level	<input type="text" value="Nil"/>	International level	<input type="text" value="Nil"/>

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

- ✓ Inadequate hostel facilities
- ✓ Referencing time in the University Library
- ✓ High speed internet facility for the students
- ✓ Adequate conveyance facilities
- ✓ Cafeteria in the campus

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

"Mahatma Gandhi University envisions to excel in the field of higher education and cater to the scholastic and developmental needs of the individual, through continuous creation of critical knowledge base for the society's sustained and inclusive growth"

Mission

- ✓ To create an environment that would foster higher education in its area of jurisdiction
- ✓ To create educated individuals qualified in specialized areas of knowledge
- ✓ To plan and implement academic programmes of the highest quality that would foster the holistic development of individuals who will be empowered to act as the conscience of society
- ✓ To conduct and cause to be conducted undergraduate, postgraduate and research-level programmes of quality in sciences, the humanities, social sciences, and the professional disciplines
- ✓ To foster research and extension activities directed at the reorganization of existing knowledge and the creation of new knowledge for the development of society
- ✓ To help in the creation and development of manpower that would provide intellectual leadership to the community
- ✓ To provide skilled manpower to the professional, industrial and service sectors in the country so as to meet global demands
- ✓ To help promote the cultural heritage of the nation and preserve the biodiversity of the region
- ✓ To promote national development by imparting education and culture to the people of the areas coming under the jurisdiction of the University
- ✓ To develop itself into an institution with the highest standards of excellence without losing sight of the importance of social equity

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

Board of studies in various subjects in association with Faculty council regularly update the syllabus and curriculum. Projects are given to students for the improvement of methodology and training. 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. Feedbacks from various sources are utilised for the purpose.

Please see annexure 6.3.1

6.3.2 Teaching and Learning

The University proposes to provide the best learning and teaching environment through a learner friendly, need- based instructional system. It uses latest pedagogical tools for developing cognitive- analytical skills and self-reflexivity in students and researchers. Through the use of instructional devices like Smart Class Rooms, ICT enabled teaching, Computer aided technology, LCD/OHP projected and non- projected aids, Erudite programmes, INFLIBNET etc., attempts are made to enhance teaching and learning abilities. Different methods for the acquiring and dissemination of knowledge like group discussions, field trips, case studies, seminars, symposiums, course-wise assignments, dissertations, visits to various teaching institutions for comparative purposes and individualised instructional strategies are used. Effective, transparent, rigorous internal mechanisms are utilised 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. The gaps in learning are checked and remedial measures proposed. Information based, theory oriented, and experimental learning and teaching methods are employed. Attempts are made for the empowerment of disadvantaged/ differently-abled sections in the learning process. A rigorous, transparent examination system based both on the Credit Based Semester System with mid- semester tests, end semester examinations, and the Annual system are employed.

Please see Annexure 6.3.2

6.3.3 Examination and Evaluation

Follows Credit Based Semester System/ Semester/ Annual system for various programmes. The Departments follow systems with internal and external evaluation methods and Examinations. The continuous Internal evaluation is based on assignments, seminars, debates, spot tests, model exams, discussions, quiz competitions etc. Special coaching programs to students for UGC and NET examinations. Facility to write Examinations in Malayalam .Time-bound valuation and publication of results. Double valuation for Answer-scripts and Dissertations.

Please see Annexure 6.3.2

6.3.4 Research and Development

Development of Research in various thrust areas of knowledge. Research work undertaken in frontier areas in various fields towards product development. Up-gradation of infrastructure, research tools, methods for Data Analysis. Contribution of research papers and articles to various books and journals. Ability project to address needs of physically challenged students and researchers for research in disability. Special lectures in Research methodology and introduction to course work. Research Collaborations and sharing of research students/ Exchange programmes with various leading Research Institutions. Community based and problem based learning approaches. Publication of edited/ authored books and Research journals on various subjects.

Please see Annexure 6.3.4

6.3.5 Library, ICT and physical infrastructure / instrumentation

The University and Departmental Libraries have big collections of Reference books. New books/ journals/ facilities are added to the Library periodically. The activities and services of the University Library are automated using the Open Source Library Management Software KOHA. Earlier the library had used the Library Management software SOUL developed and supplied by the INFLIBNET Centre. As the software had certain limitations and difficulty experienced by the Library to switch over to its latest version, library started using KOHA since 2012. With regard to the facilities and user friendliness both library staff and users are satisfied with the new system. For the effective implementation of KOHA system, library has conducted two in-house training programs, a four day in – house training programme for staff of University Library and Department Libraries from 24-09-2012 to 27-09-2012 and one week training programme for staff of University Library from 25-07-2013 to 01-08-2013. A KOHA server is maintained and updated by the library. In addition to the University Library, most of the department libraries are also using KOHA software for Library Management. The library is also keen in providing technical assistance to librarians working in the departments for effective implementation of KOHA.

Please see Annexure 6.3.5

6.3.6 Human Resource Management

Human Resources are managed in various courses, Schools and Research activities in the best possible way. Classes related to Personality Development, Internship and Training in Government Institutions/ NGO's/ Industry. Periodic meetings of Faculty Council, student representatives and interfaces between faculty and students are being conducted to guide students for the best use of Human Resources. Training in the use of various equipments, life skills are being given. Active coordination between Faculty and Students is ensured in all the Departments/Schools/ Centres. A Decentralized system is prevailing in the academic Departments/Schools/Centres allocating responsibilities to individual faculty members for effective management.

Please see Annexure 6.3.6

6.3.7 Faculty and Staff recruitment

The recruitment is done in accordance with the University Statutes and Government rules and regulations. Services of Guest, Ad-hoc and Temporary Faculties are utilised till the formal sanction is obtained from the Government in respect of new programmes/Centres. Faculty recruitments are done as and when vacancies arise.

Please see Annexure 6.3.7

6.3.8 Industry Interaction / Collaboration

- ✓ Interactions with Industry are undertaken at various levels.
- ✓ Faculties are involved in various projects with Industrial collaboration. Proposals to this effect are submitted for consideration at various levels.
- ✓ Interaction between Faculty and FICCI (Federation of Indian Chambers of Commerce and Industry) in promoting Internationalization of higher education.
- ✓ Field visits to Industries, institutions like DIETS, SERT, special schools, adoption centres, early childhood institutions and others.
- ✓ Collaboration with Department of Forests and Wildlife, Government of Kerala.
- ✓ Research collaborations with industry. Linkages with National Law Universities. Internship programmes.
- ✓ Industry evaluation of student internees in the form of Internship evaluation forms. Interactions with experts/ persons from Industry and sharing of experiences, classes etc.

Please see Annexure 6.3.8

6.3.9 Admission of Students

- ✓ Centralised Allotment Process (CAP) has been effectively implemented for UG and PG programmes in the affiliated colleges.
- ✓ 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.

Please see Annexure 6.3.9

6.4 Welfare schemes for

Teaching	Health card, PAI, Residential quarters, crèche, recreation facility, Medical reimbursement, LTC, Weightage to children for admission in Professional colleges managed by the University.
Non-Teaching	Same as above.
Students	Hostel facility, Insurance scheme, financial support, fees concession, health care, CUTE- Cultural organization, scholarships/Fellowships, Alumni meets, grievance cell for the solution of complaints, Guidance and Counselling.

Please see Annexure 6.4

6.5 Total corpus fund generated

Rs. 4177.40537 Lakhs

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 declares 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 introduced 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 etc..
- ✓ Double/ single valuation of Answer scripts and Dissertations (SPS). In particular cases, there is the facility to write the Examinations in Malayalam.
- ✓ The Academic calendar/ time table for internal and external examinations are adhered to. Measures are taken for the time-bound valuation and publication of results.
- ✓ The genuine modernisation of the University System, especially the examination related activities are being carried out in a big way 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
- ✓ University introduced on-line generated Hall Tickets for the CBCSS programmes.
- ✓ Bar Coded Stitched Answer Books containing 24 pages have been introduced for the CBCSS examinations
- ✓ Online transmission of valued data (Grades) have been introduced for the transfer of data from the Centralized Valuation Camps to the Computer Wing of the University.

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

Mahatma Gandhi was the first University in state to frame regulations for granting autonomy status to its affiliated colleges. But the Government level selection of colleges towards autonomy did not take place as a state level policy could not be taken for want of such regulations in other Universities. School of Technology and Applied Science and School of Medical Education were renamed as University Colleges of Nursing, Pharmacy and these centres enjoy academic autonomy. All Departments/Schools of the University have been established with a vision to provide academic autonomy to them for the development and conduct of various programmes according to the current trends.

6.11 Activities and support from the Alumni Association

Annual alumni meets are held in various departments and communications with them are maintained. The alumni meets help the student's to secure placements in various organisations. The alumni participates in seminars and workshops as resource persons and delegates. The alumni has instituted various Scholarships and Awards for the students. The alumni also helps in guiding the students in academic activities, giving suggestions, technical and financial assistance, projects and job placements. Many of the alumni who have passed out from various departments are working in places all over the world in various positions, or as researchers etc. The alumni meet also felicitates outstanding students of the School.

Please see annexure 6.11

6.12 Activities and support from the Parent – Teacher Association

Annual meetings are conducted. Information sharing sessions and grievance redressal forms are organised according to need. Monitors student performances and the facilities provided to them in the campus.

Please see Annexure 6.12

6.13 Development programmes for support staff

Compulsory computer training for the employees of the University is facilitated through the Centre for High Performance Computing of the University. Uninterrupted internet facility of 10 GBps bandwidth is available throughout the campus and advanced instrumentation training has been given to all the technical staff at the Inter University Instrumentation Centre. Similarly induction training is given to all the nonteaching staff of the University who are newly inducted to service.

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

- ✓ Initiative is taken to make the campus plastic free.
- ✓ Eco-friendly approach is promoted through the planting and preservation of various trees and vegetation.
- ✓ Club of Environmental Students (CLENs) conduct programmes on environmental awareness in and outside the campus.
- ✓ Maintains gardens/ vegetation with medicinal plants etc. Observes environmental day. Reactions are preferably carried out using green synthetic methodologies.
- ✓ An area is devoted as habitat conservation model (JEEVAKA) within the University campus. In this area systematic and periodic ecological observations were conducted to understand micro ecological dynamics. All the species were identified and documented and published a monograph book.
- ✓ Watershed conservation activities were done on the campus to conserve natural water balance of the area.
- ✓ Potential and accessible area for systematic and periodic studies on vegetation and other specific dynamics. Ideal habitats for learning and experimenting ecology, field biology aspects and techniques within the campus. Potential area for practicing taxonomic studies, biodiversity, inventories, studies on phyto sociology, insect-plant association, soil chemistry, water quality, micro flora and fauna were also done. Butterfly garden in the campus. Awareness programmes, planting of saplings.
- ✓ Proper waste management system.
- ✓ Rain water harvesting activities were done.
- ✓ Proper disposal of chemical waste.
- ✓ Help local people to conserve sacred grooves.

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.

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.

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 assessment was made more effective in a time bound manner.

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.

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.

6.3.6 Human resource management

University has adequate number of administrative staff and satisfactory number of academic staff including contract faculties. Faculty student ratio at Schools is 1:2. The academic staffs were undergone refresher programs, conferences, seminars and academic exchange to enrich their knowledge and 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.

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.

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.

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, some of them are as follows,

- 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.
- Research methodology included in syllabi of PG students to make research aptitude in students.
- Development of research in various thrust and frontier areas of knowledge through the establishment of four Inter-university/Inter school centres - Inter-University Instrumentation Centre, University Centre for International Cooperation, Institute for Contemporary Chinese Studies, K N Raj Study Centre for Planning and Centre – State Financial Relations.
- Admissions are conducted online (Centralized Allotment Process for affiliated colleges & Common Admission Process for the Schools and Departments of the University).
- 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 that are learner friendly, theoretically informed and self- reflexive.
- Students were given incentives for attending conference/seminars.
- Bar coding of books in the Library, digitalization of catalogue, computerisation of offices.
- UGC-INFLIBNET services and online repository of academic theses.
- Programms initiated to create better environmental awareness helped in waste management and cleanness in the campus.

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

- ✓ Conducted various seminars & sensitisation programmes. Started Department of Indian Sign Language. Academic calendar is strictly adhered to. Proper guidance was imparted to research students.
- ✓ National conference DRVC-2011 was conducted.
- ✓ Faculty council conducts review of progress made in the immediate past. Conducted Educational Forum, Retreat, Internship programme etc.
- ✓ Visits were conducted to educational institutions like DIET, SCERT etc. Measures were taken to develop sports/ games infrastructure. Advanced coaching ability lessons conducted for students.
- ✓ Structural barriers in design that inhibit movement of physically challenged students identified and remedial measures initiated. Adhered to the semester plan and audited the action taken. Audio visual aids such as LCD Projectors, speakers, portable mikes, white boards etc. Smart class rooms, networking, internet access etc., made available. Student News Letters introduced.
- ✓ ODLL Language Learning Software in Language Lab introduced. SPSS Software for tourism research purpose. Constant validity check using DPR(daily Progress Report), IEF(Internship Evaluation Form). Internship certificates are issued. Published various books and video CD's. Academic collaborations with Purdue University and University of Wisconsin, USA.

Action planned	Action Taken
To strengthen the inter-university centres already started and to start new centres for enhancing interdisciplinary studies	: Infrastructural facilities were added to the Inter-University centres like Environmental Science and sustainable development, social science research, biomedical research, disability studies, advanced instrumentation centre etc and Ph.D programmes started. New centres started are - Inter-University Instrumentation Centre, University Centre for International Cooperation, Institute for Contemporary Chinese Studies and K N Raj Study Centre for Planning and Centre – State Financial Relations.
Hosting Erudite Scholar in Residence Programme	: Several leading academicians have already taken part in the programme like Prof. Ferid Murad, Prof. Roger Tsein, Prof. Robert Huber, Sir. Harold Walter Kroto during current year.
To restructure courses in	: Restructured PG and M.Phil courses and introduced

Behavioural science.	visual impairment.
To start an M.Tech programme in Polymer technology	: Started the course in School of Chemical Science.
To start an M.Tech programme in Computer Science	: Started the course in School of Computer Science.
To conduct IT Festival	: IT Festival 'INTERFACE' was conducted by School of Computer Science.
To organise a national seminar on disaster management	: Organised national conference on Disaster Risk Vulnerability Conference (DRVC-2011) by School of Environmental Science.
To start a journal in the area of South Asian Diplomacy	: Started the journal 'South Asian Journal of Diplomacy (SAJD)' Annual journal published by the K.P.S.Menon Chair for Diplomatic Studies, School of International Relations and Politics (SIRP).
To organise a serious lectures on critical/cultural concepts	: School of Letters organised lecture series titled 'Key words' and is delivered by eminent personalities.

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

Credit Based/ Choice Based Credit and Semester System.

The semester system practiced in the university Departments is Credit Based and has resulted in many qualitative changes in teaching and evaluation. It has been instrumental in our attempts to develop an Internationally reputed curriculum catering to students needs and relevant to a fast changing world. The system to ensure academic excellence and adequate flexibility of choices for students. Conducts courses in emerging areas that are in global demand like Bio- Chemistry, Microbiology, Biotechnology, Bio-physics, Nano Sciences etc.

Details in annexure I & II

7.4 Contribution to environmental awareness / protection

Initiative is taken to make the campus plastic free. The National Service Scheme of Mahatma Gandhi University launched a training programme for making Eco-friendly articles as a remedy for the plastic menace. A district level co-ordination committee was authorized to initiate training programmes and activities. As part of the programme, BK College, Amalagiri organised training a training programme in Paper Carry Bag making on 6th August, 2012. The college NSS units took up a unique programme for paddy cultivation. Wormy compost pits were made. The programme imparted the message of the importance of Agriculture to the students at large. Eco-friendly approach is promoted through the planting and preservation of various trees and vegetation. Club of Environmental Students (CLENS) conduct programmes on environmental awareness in and outside the campus. The club maintains gardens/ vegetation with medicinal plants etc. The University observes environmental day and envisages special environmental initiatives. The chemical reactions in the laboratory are preferably carried out using green synthetic methodologies. An area for habitat conservation model is maintained within the University campus. Jeevika -the live laboratory has been established for the conservation of indigenous plants , conservation of watershed, micro- habitats and related biodiversity within the campus. The area has been developed as a potential and accessible area for systematic and periodic studies on vegetation and other specific dynamics. The area has been developed as ideal habitats for learning and experimenting ecology, field biology aspects and techniques within the campus. Furthermore, potential area for practicing taxonomic studies, biodiversity, inventories, studies on phyto sociology, insect-plant association, soil chemistry, water quality, micro flora and fauna, etc. along with a butterfly garden have been developed in the campus. The Department of Life Long Learning and Extension and the Department of Environmental Sciences have been organising environmental awareness programmes, such as planting of saplings rare tree species. The Advanced Centre for Environment and Sustainable Development and the School of Environmental Sciences Proper for harvesting the rain water from the roof tops of the University buildings to a quarry that has been lying underexploited for many years. The University have facilitated a proper disposal system for the disposal of chemical waste from the various laboratories of the University. The Department of Life Long Learning and Extension is organising various programmes for the promotion of bioorganic farming throughout the state.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add.

- ✓ Greater advanced level instrumental support to be provided.
- ✓ Necessary permanent teaching faculties to be recruited for specialised areas. Inter-disciplinary Centres to be strengthened.
- ✓ Vocational rehabilitation centre for adults, counselling cum- psychological testing clinic for the public.
- ✓ 12 faculties with specialization in various applied life science areas.
- ✓ The number of research projects and funding has to be increased. Infrastructural / class room facilities to be increased.
- ✓ Seminars/ workshops at National/ international levels to be organized. Measures taken to develop innovative curriculum.
- ✓ Continuous evaluation of academic elements and tracking of student's academic growth.

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.
- ✓ To make the campus more eco-friendly with further measures for waste management, water harvesting and conservation of biodiversity.
- ✓ To improve the existing feedback system.

Name: Prof (Dr) Sabu Thomas

Name: Dr. Babu Sebastian, Vice Chancellor

Signature of the Director, IQAC

Signature of the Chairperson, IQAC

PD Hills

12/01/2016

Best Practices of the institution

Best practice I

Title of the Practice

University – Industry linkage

Objectives of the practice

- To familiarise the students with real life situations in industries and to have hands on experience and exposure.
- To persuade students to take up collaborative research to meet the industrial requirements.

Need addressed and the context

The University conducts job oriented programs like MCA, MBA, MTM, M.Sc (Polymer Chemistry), B.Tech, M.Tech, B.Pharm, M.Pharm etc, which require collaboration with industries. University-industry interaction provides a platform to take up activities which are mutually beneficial. The students are benefited in terms of job placement and collaborative research, while the industries receive a pool of trained human resources. The industry is also benefited through the research out comes which can enable them to enhance the performance of the industry.

The practice

The University has obtained linkages with rubber industries, tour companies, pharmaceutical firms, banking and insurance sector, Information Technology etc. The industry partner enhances the employability of the students through workshops, lectures, discussions and need based training. Familiarisation of analytical techniques and instrumentation obtained from industries through internship help in capacity building of students and faculty members. Industry personnel are provided with facilities to pursue research leading to the award of research degree. Campus interviews are regularly conducted by the industries.

Evidence of success

About 280 students are benefitted in terms of capacity building/job placement/research progression. Increase in the number of applicants for various programmes offered by the University is an evidence of success of University industry linkage. The programme also facilitated in increasing the number Research papers/patents. (Patents, papers, Ph.D)

Resources

Appolo Tyres

Best practice II

Title of the Practice

Periodic monitoring and progress of research scholars

Objective of the practice

- To evaluate the progress of the research work of PhD Scholars once in every six months.
- To support the scholars with inputs improving the quality of research.
- To finish the work within the stipulated timeframe as scheduled.

Need addressed and the context

Even though the research work of each student is scheduled to be completed within a stipulated period, often it is delayed because of the lack of systematic approach. This has resulted in the delayed submission of thesis and award of degree. As per university regulation only constant number of students is permitted to be supervised by the guides. The delay in submission of thesis badly affects the opportunity of fresh PhD research aspirants. Monitoring through periodic presentations, besides sharpening the work for completion also helps to improve the presentation skill of the scholars. This practice helps in enhancing the level of self confidence of the students during viva-voce /interviews.

The practice

The practice of evaluating the research work of the PhD scholars was made compulsory once in six months. The students have to present the work before the guide, faculty and fellow researchers. The interaction with the scientific community will help them to improve the research in content and spirit. It will also make the scholar aware of finishing the work as per the set schedule and timely submission of thesis. The number of papers published by the scholars in the seminar proceedings as well as in peer reviewed journals, if any, will be reported along with the presentation.

Evidence of successes

There observed improvement in the timely completion of the research work and the submission of thesis. The practice also helped to improve presentation ability of the scholars in seminars and found to augment publications in journals.

Resources MRF Tyres, Appolo Tyres

8. Plans of institution for next year

- Start the course in Indian sign language, conduct seminars, conferences & short term orientation programmes for caregivers of persons with severe disability, Establish clinical linkages with institutions working for the rehabilitation of disabled. Expand the activities of vocational rehabilitation centre, set up special laboratories for assessment and rehabilitation of people with visual and hearing impairment.
- Introduction of MTech programme, Library automation

- To Conduct an international conference on advanced oxidation processes in 2012
- To Conduct a National conference on wetlands (Lake 2012) in collaboration with Indian Institute of Science
- To Conduct a National seminar on sustainable development (NSSD 2012) in collaboration with Department of Environment and Climate Change, Govt. of Kerala
- To submit an application for Obama Singh 21st Century Knowledge Initiative (OSI) (An Indo-US program) to UGC
- To focus research on the following thrust areas; advanced oxidation process; Phycoremediation; Biofuel; Mercury geochemistry.

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

1.1 Details about Academic Programmes

SI.No.	Department	Level of the Programme	Subject		
1	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		
		2	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				
3	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
4	School of Computer Sciences	PG	M.Sc. Computer Science
		M. Tech	Computer Science & Technology
		Ph D	Computer Science
5	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			
6	School of Gandhian Thought and Development Studies	PG	MA Gandhian Studies
			MA Development Studies
		M.Phil	Development Studies
			Gandhian Studies
			Social Work
		Ph D	Development Studies
			Gandhian Studies
			Social Work

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	School of Pedagogical Sciences	PG	M.Ed
		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
24	Department of Life Long Learning and Extension	Certificate Programmes	Counselling
			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	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		
28	School of Technology and Applied Sciences	UG	B Sc Computer Science
			B Sc Electronics
			B Tech Polymer Engineering

			MCA
		PG	MSc Computer Engineering and Network Technology
			M Sc Applied electronics
			M Sc Computer Science
			M Sc Space Science And Technology
29	University College of Engineering		B Tech (Computer Science & Engineering)
		UG	B Tech (Electrical & Electronics)
			B Tech (Polymer Engineering)
			B Tech (IT)
			B Tech (Electronics & Communication Engineering)
		PG	M Tech (Applied Electronics)
30	School of Applied Life Sciences	PG	M Sc Fishery Biology & Aquaculture
		M Phil	Fishery Biology & Aquaculture
31	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

Dr. Razeena Padmam

1. Invited talk on “stress and coping” for the employees of Southern Railway, Chennai on 20.05.2011.
2. Invited talk on “Effective living” for the All Kerala Physiotherapy Professionals” conference on 18.10.2011
3. Presented paper on “Inclusion and holistic rehabilitation of the differently abled” in the National Seminar conducted at St. Thomas College of Teacher Education at Pala on 20.12.2011
4. Invited talk on ‘Grooming yourself” at Goutham Foundation Chalakkudy on 08.01.2011.
5. Presented paper on ‘Main stream departmental process and holistic rehabilitation of differently abled’ organized by Kerala State Handicapped persons Welfare corporation on 25.10.2011.

Dr. Rajeevkumar

1. Attended 7 days, National Workshop on ‘Solution focused Brief Therapy’ conducted on 3rd to 10th March 2011 at Sri. Ramachandra University, Chennai.
2. Participated National Conference of Neuropsychology & cognitive Neuroscience held on 24th to 26th November 2011 at NIMHANS, Bangalore.
3. Participated U.GC sponsored National workshop on Applications of Projective Assessment held at Dept. of Psychology, Periyar University on October 13-14, 2011.
4. Participated and chaired a session on one day National Seminar on Management of Learning Disability, conducted by School of Behavioural Sciences, Mahatma Gandhi University, Kottayam on 22nd March 2011.
5. Attended 3 days Workshop on Research, Ink Blot Test Exner’s Method
6. Administration, scoring and Interpretations held on 9th to 11 March 2012 at Sri. Ramachandra University, Porur, Chennai.
7. Attended and presented a paper entitled as Impact of Emotional Maturity on the perceptions of parenting Among High School student in the UGC sponsored National Seminar conducted by Department of Psychology, Sree Sankaracharya University of Sanskrit, Kalady on 22nd, 23rd and 24th February, 2012.
8. Participated National training Seminar on counseling and Psychotherapy conducted by SPSA, Calicut on 23rd to 25th January 2012.

9. Attended and presented a paper on Emotional and Behavioural Problems among Juvenile Children in the UGC National Seminar Organized by Department of Psychology, S.V University, Tirupati on 30th and 31st March 2012.

Dr. P.T Baburaj

1. Presented a paper on the two day International Conference on Inclusion- understanding children with Disabilities to build 'inclusivde communities, on January 11 and 12, 2012.

Rincymol Mathew

1. Paper presented in state level workshop on Issues and Challenges in Evidence
2. Took class on personality development for NSS Volunteers M.G University Campus.
3. Participated 5 days national workshop on Research Methodology organized by Mount Carmel College of Teacher Education, Kottayam.
4. Attended National Workshop on "Scientific Writing" organized by University Libvrary, M.G University.
5. Presented paper on evidence based nursing practice in the 2 day seminar on nursing education organized by Caritas College of Nursing Thellakom
6. Attended one day seminar on aging organized by ARDSI, Kottayam Chapter

SCHOOL OF BIOSCIENCES

Dr.LinuMathew

- a. Genetic variation in populations of *Clarias dussumieri dussumieri* in different geographical locations of Kerala Aneesha Devassi, Smitha Thomas, Linu Mathew World congress on biotechnology, 2011.
- b. Genetic variation in populations of *Monochoria vaginalis* in different geographical areas of coastal Kerala, Smitha Thomas. K., Aneesha Devassy , Linu Mathew, World congress on biotechnology, 2011
- c. Studies on endophytic associations in *Achyranthes aspera* . Reshma John, Siji Raju, Jyothis Mathew, Liinu Mathew, International congress and symposium in plant sciences,at MACFAST ,Thiruvalla, Kerala 2011.
- d. Poster presentation in International congress and symposium in plant sciences, at MACFAST, Thiruvalla, Kerala 2011.
- e. Endophytic fungal diversity and colonization in *Achyranthes aspera* Linn. Reshma John, Siji Raju, Jyothis Mathew, Liinu Mathew 24th Kerala Science Congress, KSCSTE, Thiruvanthapuram Jan 2012.

Dr.Jayachandran.K

- f. Social impact of Genetic Engineering and recent trends. Jayachandran.K, Presented in the National seminar on higher education conducted by Kannur University on December 13-15, Kannur University, Kannur.
- g. Attended the Kerala Science congress held from 29-31 st January 2012- at RRI Kottayam.
- h. Phenol biodegradation by *Alcaligenes* sp -a process for industrial and environmental applications. Paper presented in the International conference on Advances in Biological science (ICABS-2012 held on March 15-17, 2012 at Kannur.
- i. Attended and presented a paper in national symposium on emerging trends in Biotechnology, Department of Biotechnology, Cochin University of science and technology on 1-2 september, 2011.

Dr. Jyothis Mathew

- j. Jyothis Mathew. International Conference on Epidemiology Organised by St. Thomas College, Pala. 2012 on Antibiotic resistance profile analysis of Staphylococcal isolates by Soumya KR, Sheela Sugathan, Jyothis Mathew and Radhakrishnan EK, at
- k. Jyothis Mathew. International symposium on the Family zingiberaceae organized by Department of Botany, University of Calicut, and Indian Association for angiosperm taxonomy. Antidermatophytic action of *Zingiber zerumbet* (L.) Roscoe Ex J.E. Smith from central Kerala in three different seasons Jyothilakshmi M., Jyothis Mathew and M.S. Latha 2012
- l. Jyothis Mathew. National Seminar on Life style and Diseases School of Biosciences, Mahatma Gandhi University, Kottayam; 19-20 January, 2012
- m. Jyothis Mathew. in 24th Kerala Science Congress, organized by Rubber Board., Kottayam, Kerala, India on 29-31, January 2012. Aswathy, Jyothis Mathew and Radhakrishnan EK First Prize for poster presentation

Dr.Harikumaran Nair

- n. Sougand M.V and Harikumaran Nair.R. Long term exposure to monosodium glutamate on antioxidant defense system and histopathology in rat kidney, International conference on recent trends in therapeutic advancements of free radical science, 9-11 January 2011, Chennai, India (International conference)
- o. Abhilash M and R Harikumaran Nair. Artificial sweetener-Aspartame and antioxidant defense status in the brain. International conference on Recent trends in therapeutic advancement of free radical science. January 9-11, 2011, Chennai, Tamilnadu, India. (International conference)

- p. The Cardioprotective Efficacy of Omega-3 Fatty Acid against Acute Promyelocytic Leukaemic Drug-Arsenic Trioxide Induced Toxicity”, International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science, 9-11-Jan,2011, Chennai, India. (pp.S04-38). (International conference)
- q. Mathews V. Varghese, Harikumaran Nair. R. Efficacy of Eicosapentaenoic acid and Docosahexaenoic acid against hepatotoxicity induced by Acute Promyelocytic Leukaemia Drug. National conference on Molecular Diagnostics for Sustainable Health in Biosciences and Technology, July 20th and 21st, Karunya University, Coimbatore, Tamil Nadu, India. Excel India Publishers, 2011, pp. 74-84. New Delhi. ISBN:978-93-81361-14-6. (National)
- r. Evaluation of Arsenic-induced Genotoxicity and Cytoprotection of Omega-3 Fatty Acid by Cytokinesis Blocked Micronuclei Assay”International conference on advances in biological sciences, March 2012 at Kannur University, Kerala, India. pp: CMB046; 286. (International conference)
- s. Abhilash M and R Harikumaran Nair. Consumption of non-nutritive sweetener aspartame- a risk for hepatic functions. International conference on advanced biological sciences (ICABS), March 15-17, 2012, Kannur University, Kannur, Kerala, India. (International conference)
- t. Sougand.M.V and R.harikumaran Nair, Excitotoxic food additive monosodium glutamate- A menace to myocardium-International conference on advances in biological sciences, 15-17 March 2012, Kannur, Kerala, India (International)
- u. Mathews V Varghese, Abhilash S, Harikumaran Nair, R. Myocardial and hepatocellular implications of arsenic” 24th Kerala Science Congress, January 2012 at RRII, Kottayam, Kerala, India. pp. 469-71. ISBN 81-86366-77-6. (National)
- v. Abhilash M and R Harikumaran Nair. Artificial sweetener-Aspartame consumption and blood antioxidant defence status. 24th Kerala Science Congress, January 29-31, 2012, Rubber research Institute of India, Kottayam, Kerala, India.

Resmi.S.S

- w. Resmi.S.Attended the National seminar organised by School of Biosciences, Mahatma Gandhi University, on Life style and diseases, 19-20 ,January 2012 .r
- x. Resmi.S.Attended the International Conference on Advance in Biological Sciences 15 - 17 March 2012, Department of Biotechnology & Microbiology, Kannur University,
- y. Resmi.S.Attended the Kerala Science Congress held at C Rubber Research Institute of India, Rubber board Kottayam organised by Kerala state Council for Science,Technology and Environment , Kerala Science Congress, 29-31 January 2012

Dr.Jisha M.S

- z. Environmental impact of acute exposure of the anionic surfactant linear alkylbenzene sulphonate (LAS). Presented in the International Symposium on Environmental Risk Assessment 2011 (ISERA 2011) organized by School of Lifesciences, Bhatathiyar University, Coimbatore, held on October 17 – 19, 2011.
- aa. Kerosene biodegradation by autochthonous bacteria. Presented in the International Symposium on Environmental Risk Assessment 2011 (ISERA 2011) organized by School of Lifesciences, Bhatathiyar University, Coimbatore, held on October 17 – 19, 2011.
- bb. Biocontrol potential of rice endophyte *Fusarium oxysporum* against Rice Sheath Blight pathogen *Rhizoctonia solani*. Presented in the International workshop and seminar "Phytophthora 2011 organised by Rubber Research Institute of India, held on 12-17 Sept. 2011.
- cc. *Pseudomonas* and *Bacillus* mediated control of bacterial blight of anthurium. Presented in the International workshop and seminar "Phytophthora 2011 organised by Rubber Research Institute of India, held on 12-17 Sept. 2011.
- dd. Biocontrol of *Fusarium* wilt of Vanilla (*Vanilla planifolia*) using *Trichoderma arrizianum*. (Presented in the 2nd International seminar and workshop on "Sustainable utilization of tropical plant biomass" held at Kerala University campus, Kariavattom, Thiruvananthapuram 2011)
- ee. Cytotoxic alterations induced by sublethal concentration of the anionic surfactant linear alkylbenzene sulphonate (LAS) on grass carp (*Ctenopharyngodon idella*). Presented in the International seminar ASIAN PACIFIC AQUACULTURE 2011, Kochi, India held on January 18 -20, 2011
- ff. Characterization of plant growth promoting endophytic bacteria from rice. International seminar Sustainable utilization of tropical biomass through biotechnology, 'SUPBT 2012' December 2012.
- gg. Bioactive metabolite from *Aphyllorphorales* sp. an endophytic fungus isolated from *Breguiera cylindrical*. International seminar Sustainable utilization of tropical biomass through biotechnology, 'SUPBT 2012' December 2012

Dr.Keerthi.T.R

- hh. Savitha. K. Koilery and Keerthi T. R. (2012). "Synthesis and characterisation of mannan based nanomaterial from a marine yeast *Meyerozyma guilliermondii*". 5th International Conference on Sensors,"ASIASENCE-2011" held during oct-21-27, 2011, Jeju, Korea. Oral presentation

- ii. Savitha K. Koilery and Keerthi T. R. (2011). "Identification and characterization of exomannan and cell wall mannans from a marine yeast *Meyerozyma guilliermondii*". Asian Congress on Biotechnology, "ACB 2011" held during May 11-15, Shanghai, China, Oral Presentation.
- jj. Anu. P. Sebastian and Keerthi. T. R. (2011). "Probiotic potential of *Bacillus subtilis* isolated from milk and its antagonism against enteric pathogens". World Congress on Biotechnology, Hyderabad, March 21-23, 2011 Oral Presentation.
- kk. Aparna Balakrishna and Keerthi T. R. (2011). "Screening of potential aquatic probiotic from major microflora of Guppy". Asian Congress on Biotechnology, "ACB 2011" held during May 11-15, Shanghai, China, Poster Presentation.
- ll. Aparna Balakrishna and Keerthi. T. R. (2011). "Characterization of siderophore produced by the gut microflora of *Poecilia reticulata* for potential use as probiotic in aquaculture". World Congress on Biotechnology, Hyderabad, March 21-23, 2011, Poster Presentation.
- mm. Anjali Anne Jacob, Sherin Joy Parapilly and Keerthi T. R. (2011). "In vitro probiotic characterization of Lactic Acid Bacteria isolated from infant feces with anti microbial action towards enteric fever pathogens". National Seminar on Emerging Trends in Biopharmaceuticals, 26-27 August 2011, St. Mary's College, Trissur. Oral Presentation.
- nn. Savitha K. Koilery and Keerthi T. R. (2011). "Biodiversity of marine yeast at different depth ranges in the coastal region of Arabian sea of Indian Peninsula". National Symposium on Emerging Trends in Biotechnology held during September 1-2, 2011 at Cochin University of Science and Technology, Cochin. Poster Presentation.
- oo. Anu P. Sebastian and Keerthi T. R. (2011). "Adhesion property is an enhanced probiotic potential of *Bacillus subtilis* MBTU_PBBM1 against Enteric pathogens". National Seminar on Emerging Trends in Biopharmaceuticals, 26-27 August 2011, St. Mary's College, Trissur. Oral Presentation.
- pp. Savitha K. Koilery and Keerthi T. R. (2012). "Structural analysis of polysaccharide mannans from a marine yeast *Meyerozyma guilliermondii* (JN128648) using ¹H and ¹³C NMR Spectroscopy". International Conference on Advances in Biological Sciences "ICABS 2012" held during 15-17 March 2012, Kannur, Kerala, India. Poster Presentation.
- qq. Glindya Bhagya Lakshmi, Anjali Anne Jacob, Anu P. Sebastian, Resmi S.S. and Keerthi T. R. (2012). "Health promoting microflora from natural sources". International Conference on Advances in Biological Sciences "ICABS 2012" held during 15-17 March 2012, Kannur, Kerala, India. Poster Presentation.

- rr. Anjali Anne Jacob and Keerthi T. R. (2012). "Lactic Acid Bacteria *Enterococcus faecium* MBTU_P1F1 from intestinal commercial flora has antibacterial and essential probiotic properties". International Conference of Regulator Network Architecture in Bacteria, "RNAB 2012", March 09-11, 2012, Sastra University, in Association with Rajiv Gandhi Center for Biotechnology. Poster presentation.
- ss. Anjali Anne Jacob and Keerthi T. R. (2012). "Partial characterization of bacteriocin like substance against enteric fever pathogens produces by *Enterococcus faecium* MBTU_P1F1 from infant gut microflora". XL Dairy Industry Conference, February 2-5 2012, New Delhi. Poster Presentation.
- tt. Anu P. Sebastian and Keerthi T. R. (2012). "Adhesion and cell surface properties of wild species of *Bacillus* spore formers against enteric pathogens". National Seminar on Life Style and Diseases. January 19-20, 2012. School of Biosciences, Mahatma Gandhi University, Kottayam, Kerala. Oral presentation
- uu. 2011 February 14-27-NAIP (ICAR-New Delhi) Sponsored training programme on "Molecular Diagnostics and Fingerprinting of *Salmonella* and pathogenic *Vibrios* associated with seafood and aquatic environment". Organized by MFB division of CIFT, Cochin. Kerala.
- vv. In vitro probiotic characterization of Lactic Acid Bacteria isolated from infant feces with anti microbial action towards enteric fever pathogens. Author: Anjali Anne Jacob, Sherin Joy Parapilly and Keerthi T. R. Pages: National Seminar on Emerging Trends in Biopharmaceuticals, 26-27, August 2011, St. Mary's College, Trissur. Page no. 24-30.
- ww. Adhesion property is an enhanced probiotic potential of *Bacillus subtilis* MBTU_PBBM1 against Enteric pathogens. Author: Anu P. Sebastian and Keerthi T. R., Pages: National Seminar on Emerging Trends in Biopharmaceuticals, 26-27 August 2011, St. Mary's College, Trissur. Page no. 19-21.
- xx. Adhesion and cell surface properties of wild species of *Bacillus* spore formers against enteric pathogens. Author: Anu P. Sebastian and Keerthi T. R., Pages: National Seminar on Life Style and Diseases. January 19-20, 2012. School of Biosciences, Mahatma Gandhi University, Kottayam, Kerala. ISBN:978-93-82359-49-4
- yy. Anjali Anne Jacob and Keerthi T. R. (2012). "Characterization of *Enterococcus faecium* infant gut flora for application in functional food". International Biotechnology Symposium, "IBS 2012", September 16-21, 2012, Daegu, Korea. Oral presentation.
- zz. Savitha K. Koilery and Keerthi T. R. (2012). "Anticancer effects of mannans from a marine yeast *Meyerozyma guilliermondii* (JN128648) in MCF7 Human breast cancer cells". International Biotechnology Symposium, "IBS 2012", September 16 - 21, 2012, Daegu, Korea. Oral presentation.

- aaa. Anu. P. Sebastian and Keerthi T. R. (2012). "In vitro Adhesion and in vivo colonization are desired probiotic characters of MBTU_PBBM1 Bacillus subtilis isolated from milk". 3rd World Congress on Biotechnology, September 13-15, 2012, HICC, Hyderabad, India. Oral Presentation.

Dr.Prakashkumar.B

- bbb. Training Course on use of Cell culture Technology for studying apoptosis and angiogenesis January 24-31 2011 organised by Department of Biotechnology, University of Mysore, Manasagangotri, Mysore-570006
- ccc. Robin Augustine, Nandakumar Klarikkal, Prakash Kumar B, Sabu Thomas. Effect of zinc oxide nanoparticles on the Fiber Diameter and Morphology of Electrospun Polycaprolactone. Poster Presented at IInd International conference on nanomaterials: Synthesis, Characterization and Application ICN- 2012 organized by Center for Nanoscience and Nanotechnology Mahatma Gandhi University on 12th – 15th January 2012
- ddd. Robin Augustine, Deepa Mohanan, Prakash Kumar B, Radhakrishnan E K Nandakumar Klarikkal Sabu Thomas. Pectinates Infiltrated non-woven polycaprolactone membranes as antibacterial wound dressings. Poster Presented at IInd International conference on nanomaterials: Synthesis, Characterization and Application ICN- 2012 organized by Center for Nanoscience and Nanotechnology Mahatma Gandhi University on 12th – 15th January 2012

Dr.Anie Y

- eee. Xylitol action on impaired neutrophil functions associated with alcoholism. National seminar on "Life style and Diseases held at School of Biosciences, Mahatma Gandhi University, Kottayam, Kerala from January 20-21, 2012 .Haritha V H, Neethi Raj P, Anie Y..
- fff. National Seminar on "Nanotechnology: Applications of nanomaterials in Agriculture, food and medicine, 25th to 26th July, 2012 at B K College, Amalagiri Kottayam

SCHOOL OF CHEMICAL SCIENCES

Presented Papers

Raju Francis- 1, Beena Mathews, Suresh Mathew- 2, Sabu Thomas- 9(International) ;
G.Anilkumar-1, Beena Mathew-6, Sabu Thomas- 7(National); S.Anas-1, Sabu Thomas- 9
(State).

Resource Persons:

Raju Francis- 1, G.Anilkumar- 1, Sabu Thomas-9(international), Sabu Thomas-
7(national) ; Raju Francis, Sabu Thomas,-7; Suresh Mathew- 2.

SCHOOL OF COMPUTER SCIENCES

Dr. R. Vijayakumar

- ggg. National Conference on “Computing and Communication (NCCC 2011)”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011
- hhh. Seminar on “Computational Intelligence, Robotics and Autonomous Systems” by Dr. Prahlad Vadakkeppat, National University of Singapore, January 3rd, 2012.
- iii. Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012.
- jjj. Mini.T.V, Sunil Sunny, Vijayakumar R., “ Measure Web page Similarity with Hyperlink Transitivity to retrieve relevant Web Pages “ , National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011.
- kkk. Anju Prathap, R Vijayakumar “Agent based Multi Expert Synthesis System for the Diagnosis of Communicative and Cognitive Disorders in children”, National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
- lll. Shameem Kappan, R Vijayakumar, “Development of a framework for protection of multimedia content over wireless networks by biometrics-based scalable encryption”, National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
- mmm. Muhamed Ilyas, “Location privacy in location based services”, National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
- nnn. Praveen Kumar B T, “Adaptive median filter based on homogeneity level information”, National Conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
- ooo. Unnikrishnan G, R Vijayakumar, “Raga Recognition using Self-Organising Feature Maps”, Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012.
- ppp. Sunil Sunny Chalakkal, Mini T V, R.Vijayakumar “Data Mining Application in Banking: using Clustering Algorithm Design”, Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012
- qqq. Anju Prathap, R Vijayakumar, “Connectionist based CBR for Intelligent Medical Diagnosis ”, Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012
- rrr. Benazir. K.K, “Non Minutiae based Fingerprint matching”, Conference on Computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012
- sss. Kiran V.K, R Vijayakumar, “Sequence Analysis with Artificial Neural Networks”, Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012.
- ttt. Sherin Mathew, R. Vijayakumar, “A Comparative Study on Off-line Handwritten Malayalam Script Recognition Using Neural Network”, Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January 2012.

- uuu. K K Benazir, R Vijayakumar, "Robust Enhanced Algorithm for Fingerprints", International Conference on Global Computing (ICGC), March, 2011 ID No: Comp-13.
- vvv. As Resource Person in Workshop on "Teaching Learning Process", School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.

Ms. Bindu V.R.

- www. Workshop on "Teaching Learning Process", School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, University, 2011.
- xxx. National Conference on "Computing and Communication (NCCC 2011)", School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011.
- yyy. Seminar on "Computational Intelligence, Robotics and Autonomous Systems" by Dr. Prahlad Vadakkepat, National University of Singapore, January 3rd, 2012.
- zzz. Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012.
- aaaa. IEEE International Conference on Computational Intelligence and Computing Research (2011 IEEE ICCIC) Dec 15-18, 2011
- bbbb. Bindu VR, Dr. K.N. Ramachandran Nair, Shape Modeling Using A Variational Level Set Formulation, Proceedings of IEEE International Conference on Computational Intelligence and Computing Research (2011 IEEE ICCIC) Dec 15-18, 2011 (ISBN:978-1-61284-694-1

Ms. K.P. Pushpalatha

- cccc. Workshop on "Teaching Learning Process", School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, University, 2011.
- dddd. National Conference on "Computing and Communication (NCCC 2011)", School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011.
- eeee. International Conference on Advances in Computing (ICAC 2011), Department of CSE, PSG College of Technology, Coimbatore, Dec 9-11, 2011.
- ffff. Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012.
- gggg. IEEE International Conference on Technology Enhanced Education (ICTEE2012), Amrutha University, Kollam, Kerala, January 2012.
- hhhh. Pushpalatha.K.P, G.Raju "Effects of Distributional Features in Text Document Retrieval", Conference on computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012.
- iiii. Pushpalatha.K.P, G.Raju. "Computing Search Index Using Distributional Features", International Conference on Advances in Computing (ICAC 2011), Department of CSE, PSG College of Technology, Coimbatore, Dec 9-11, 2011
- jjjj. Pushpalatha.K.P, G.Raju. "Compactness - A Useful Feature for Generating Search Index", IEEE International Conference on Technology Enhanced Education (ICTEE2012), Amrutha University, Kollam, Kerala, January 2012

Ms. Anuj Mohamed

- kkkk. Workshop on “Teaching Learning Process”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, University, 2011.
- llll. National Conference on “Computing and Communication (NCCC 2011)”, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011.
- mmmm. Seminar on “Computational Intelligence, Robotics and Autonomous Systems” by Dr. Prahlad Vadakkeppat, National University of Singapore, January 3rd, 2012.
- nnnn. Conference on Computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January, 2012.
- oooo. International Conference on “Communication Technology and System Design”, Amrita Vishwa Vidyapeetham, Coimbatore, 2011.
- pppp. Anuj Mohamed, K.N. Ramachandran Nair, HMM/ANN Hybrid Model for Continuous Malayalam Speech Recognition, International Conference on Communication Technology and System Design, Amrita Vishwa Vidyapeetham, Coimbatore, 2011.

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT STUDIES

- qqqq. M S John delivered the fifth Ravindra Varma memorial lecture at Institute of Gandhian Studies, Wardha, on 9 October 2011 on the theme Contemporary Nonviolent Action
- rrrr. M S John presented a paper on “India-China tensions and Conflict Resolution prospects” at the National Seminar on ‘60 years of Sino-Indian interactions’ at Kerala Varma College, Trissur on 12, 13 & 14 December 2011
- ssss. M S John presented a paper on Nehru’s Contributions to Conflict resolution at the national seminar on “Peace and Conflict in South Asia: Nehru and Beyond” organized by the UGC Nehru Study Centre, Department of Political Science on March 2 & 3, 2012
- tttt. M S John presented a paper on “Peace Through Art: Some Theoretical Perspectives”. at the National Seminar on Owest for Peace Through Contemporary Art held at Osmania University and organized by the World Buddhist Trust on 16&17 March 2012
- uuuu. M S John delivered a lecture at the one-day Symposium on the Contributions of Dr. K.R Narayanan to enrich democratic values organized by K R Narayanan Study Centre, St. Stephen’s College, Uzhavoor, held at Kottayam on 10 December 2011.
- vvvv. Rov C Mathew delivered a lecture at the state level workshop on Research Methodology in Business Studies organized by Department of Commerce . St . Stephen’s College, Uzhavoor, on August 20, 2011, at St Stephen’s College, Uzhavoor
- wwww. In 2011, M S John joined IIT Madras as full Professor, in the Department of Humanities and Social Sciences, one of the very few to be recruited at that level from the University system. He edited a special issue of *Gandhi Marg* on Identity Formation and Peace building in Northeast India during 2011-12.

SCHOOL OF INDIAN LEGAL THOUGHT

- xxxx. "Land Acquisition: Right to Property & Right to Compensation – Constitutional & Human Right Perspectives" ; Dr.George Joseph, UGC sponsored National Seminar on "Reforms in Land Laws: Human Rights Dimensions" at Department of Law, University of Kerala,3-4 FEB.2012.
- yyyy. "Legal Education – Changing Dimensions and Challenging Tasks", ; Dr.George Joseph in Commonwealth Legal Biennial Conference' organized by CLEA & National Law School of India University, Bangalore, 29-30 Jan.2011.
- zzzz. 'Judicial accountability and the People's Right to know' , Dr.George Joseph, in Symposium on 'Judicial Accountability and Indian Democracy' organized by Institute of Parliamentary Affairs, Govt. of Kerala,24 Jan.2011, St.Mary's college, Sulthan Bathery.
- aaaa. Dr.George Joseph also participated as Judge in the Stetson INTERNATIONAL ENVIRONMENT MOOT COURT competition ,Dept. of Legal Studies, University of Madras.2-4 Dec.2011.
- bbbb. 'Women Victims of Crime and Their Dilemma- Denial of Rights Under the criminal justice system' Dr.Sheeba Pillai, Assistant Professor, in UGC Sponsored State level seminar on Crime – a post modern spectacle' organized by Dept. of Sociology, CMS College, 4th to 5th Dec. 2011.
- cccc. 'Rights of Children in Jurisprudence' Dr.Sheeba Pillai, at the National Seminar on 'Rights of Children at SILP,23-25 Feb.2012.
- dddd. 'Declining Role of the State in ensuring the constitutional mandate of free and compulsory education and its impact on Disadvantaged Children' Dr.Sheeba Pillai, National Conference on Constitution And Government policies: Doctrinal contradictions, Christ University, School of Law,24 and 25 Feb.2012.
- eeee. 'Legal and Social trial by media and its effect on Criminal Justice administration', Rajeesh A.P, in 'Crime a post modern spectacle',above cited, 14-15 Dec,2012.
- ffff. Rajeesh A.P -Attended seminar, Rights of Children, op.cit., at SILP.
- gggg. Rajeesh A.P ,Participated in Interdisciplinary national workshop on Forensic Science in Investigation and Trial, at Govt.Law College, Ernakulam,23-25 Jan.2012.
- hhhh. Sunil Kumar Cyriac , participated in Inter disciplinary seminar on Woman and Law,23-25 Feb. 2011.
- iiii. Deviant Behaviour of Children, Sunilkumar Cyriac, in Rights of Children above cited.
- jjjj. Sunil Kumar Cyriac – Resource person, National seminar, St.Thomas College, Pala,22-23 March 2012.
- kkkk. 'Role of Academia in the development of Legal Profession.' Sunilkumar Cyriac National seminar on Maintenance of Professional Standards and legal control in India,3-5 March 2011,Govt. Law College, Ernakulam.
- llll. Sunilkumar Cyriac participated in seminar National Workshop on Forensic Science Investigation and Trial.
- mmmm. 'Right to education – Constitutional perspective' March 2011.Gigi.P.V, Asst. Professor, National Seminar organized by SILT, MGU.

- nnnnn. 'Need for maintenance of Professional standards in Legal Education' , Gigi P.V., Govt. Law College, Ernakulam, March 2011.
- ooooo. Gigi.P.V participated in Interdisciplinary workshop on Women and Law at HH maharajas Govt. Law college, Ernakulam.Feb.2011.
- ppppp. 'Need for Protecting the Rights of Children under Local Self Government Legislation', National Seminar,SILT, MGU, Feb.2012.
- qqqqq.SCHOOL OF INTERNATIONAL RELATION & POLITICS
- rrrrr. K.M. Seethi: Presented paper on "Sufism, Islam and the Contemporary challenges in South Asia, at the international symposium on Buddhism and world Culture held on 27-28 October 2011 at Jinan University, Guangzhou, china organized by the Institute for Chindian studies, Jinan University jointly with the Liuzu (Huineng) Temple at Zhenshan, Sihui City, China
- sssss. K.M. Seethi Presented paper on "Energy Security in South Asia: Critical Challenges" at the Seminar on "India" held on 2 November 2011 at the School of Business Studies, Catholic University of Korea, Seoul, South Korea.
- ttttt. K.M. Seethi Presented paper on "Reorienting India's Look East Policy: Towards 'New Asianism'?" at the Colloquium on "India" held on 3 November 2011 at the Catholic university of Korea, Seoul, South Korea.
- uuuuu.K.M. Seethi: Presentation at the Colloquium on "Civilization and Culture in India and China", held on 1 March 2011 at the School of International Relations and Politics, MG University
- vvvvv. Raju K. Thadikkar: Presented a paper on the theme Buddhist Culture in Education Sino Indian Relations revisited at the International Conference on Buddhism and World Culture during October 2011
- wwwww. Raju K. Thadikkar: Presented a paper on the theme Internationalization of Higher Education Global Trends and the Indian Experience at the International Colloquium on India and South Korea, organized by the Catholic University of Korea (CUK) at Seoul during 2-4 November 2011
- xxxxx. Raju K. Thadikkar: Participated in the International Conference on Higher Education at New Delhi organized by the FICCI, Planning Commission and the MHRD during Nov. 2009, Nov 2010 and Nov. 2011.
- yyyyy. C. Vinodan, *Regional Energy Cooperation, Peace and Security in South Asia*, International Conference on Peace, Security and Economic Development in South Asia, Department of Defense and Strategic Studies, Punjabi University, Patiala in collaboration with Association of Asia Scholars (AAS), New Delhi, March 4-6, 2011.
- zzzzz. A.M. Thomas, Conference on American Studies, United States Consulate, Chennai and St Thomas College, Pala, 27-28 July 2011.
- aaaaa. A.M. Thomas "State, Genocide and Human Rights: The Armenian Experience," National Seminar on Human Rights: Governance and Issues, K.R. Narayanan Study Centre, St Stephen's College, zhavor, 15-16 December 2011.
- bbbbb. Bijulal MV: Migrant Work and Human Rights in the GCC Countries: Some Pointers in the Context of Labour Unrest. International Conference on Diaspora and

Development: Prospects and Implications for Nation States, 7-8 September, 2011, IGNOU, New Delhi.

ccccc. Bijulal MV: Caste and Conflict in Rural India, National Seminar on Conflict Resolution in South Asia, Centre for Gandhian Studies Alphonso College and Centre for Asia Studies, Chennai, 1-2 February, 2011.

ddddd. Bijulal MV: "Civil Society initiatives on Right to Development", National Seminar on Democracy and Civil Society in India, 7-8 February, 2012.

eeeeee. Bijulal MV: India and The United States in the 21st Century, US consulate General and ST Thomas College Pala, 27-28 July, 2011.

fffff. Bijulal MV : COORDINATOR , Peoples Session, International Conference on Education, MG University, 2011.

ggggg. Bijulal MV : COORDINATOR Session on Civil Society, at the INBOFA, Organised by the M.G. University, 2012

hhhhh. Bijulal MV: Skill Development Programme: Methods and Approaches in Research on Migration Issues Centre for Development Studies, Trivandrum, May 21-25, 2011.

SCHOOL OF PEDAGOGICAL SCIENCES

NO.OF FACULTY	INTERNATIONAL LEVEL	NATIONAL LEVEL	STATE LEVEL
ATTENDED	17	29	15
PRESENTED PAPERS	19	33	14
RESOURCE PERSONS	11	21	14

SCHOOL OF PURE AND APPLIED PHYSICS

Prof. K Indulekha

1. National Organized IRCsponsored Workshop on Mathematics for(Astro)Physics (2011)
2. National Co ordinatorfor FrontierLecture Series 5 'The Relation Between Mathematics & Physics' by Prof. N. Mukunda (IISc& Vice President Indian Academy of Sciences) (2011)
3. International -Visit of Prof. Anthony James Leggett (Nobel Laureate, University of Illinois, Urbana-Champagne) under the ERUDITE scheme of GoK (2011)
4. International Seminar 'Discussion Meeting on the Impact of Quantum Effects on Our Classical World View' (2011)
5. International Workshop on eAstronomy& Statistics (2011)

6. International Scholar –in –Residence Program of GoK- visit of Ashish Mahabal, Caltech (2011)

Dr. Nandakumar Kalarikkal

1. Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012. (Co-Convener)
2. First Indo- US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31st March – 2nd April 2012. (Co-Convener)
3. Third International Multicomponent Polymer Conference (ICMPC-2012) 23-25 March-2012. (Co-Convener)
4. International Conference on Nanomaterials: Synthesis, Charecterisation and Application (ICNM-2012) February- 1-3, 2012. (Co-Convener)
5. Second International Conference on Nanomaterials: Synthesis, Characterization and Applications-ICN 2012 held during 12-15 January 2012 (Convener)
6. International conference on Nanoscience and nanotechnology-2011, November, 12-15, 2011. (Co-Convener)
7. International conference of waste management-2011(Co-Convener)
8. International Conference on Composites and Nanocomposites (ICNC-2011) (Co-Convener)

SCHOOL OF SOCIAL SCIENCE

Dr. KT Rammohan

Resource Person. National Workshop on The Proposed Institute for Tribal Studies and Research. University of Calicut. February 8-10, 2011

Dr. Rajesh Komath

Keralathile Dalit Vidyabhyasa Charithrathinu Oramukham, co-authored (Preface to the History of Education of the Dalits in Kerala), Vijnanakairali, a publication of the Institute of Language, Government of Kerala (December 2011: pp. 61-72)

Savarna Madambithathinde Aslelathakal, co-authored: Samakalika Malayalam Varika (November 11: 2011: pp: 22-24)

Jathi Vazhakavum Samuhikaparathayum (Theyyam: caste and sociality) Samakalika Malayalam Varika (October 21: 2011: pp: 54-59)

Theyyam: William Logan muthal William Dalrymple Vare (Theyyam: From William Logan to William Dalrymple) Samakalika Malayalam Varika (October 14: 2011: pp: 46-52)

Eratta Jeevithangal (Double Lives), Samakalika Malayalam Varika Annual Issue (June 17: 2011: pp: 217-238)

Ananthamoorthy Commission Report: Oru Dalit Vicharam: co-authored: Sasthragathi (January 2011: pp. 9-13)

Presented a paper titled 'Ethnographic I: Dancing Theyyam in north Malabar, Kerala' at the International Conference on 'Traditions of Dissent in Subcontinental Literatures and Cultures' conducted by Central University of Kerala, Kasaragod on October 15-17, 2012.

Dr. P. Sanal Mohan

'Subaltern in Kerala: Subaltern Studies in Translation " in paper presented in the "Postcolonial Translation: Multi-disciplinary Perspectives from South Asia" Workshop Jointly Organized by the Postcolonial Studies network in association with Newcastle University (UK), SOAS (UK), Delhi University, and Jawaharlal Nehru University January 7-9, 2011.

'Struggles for dignity, respect and inclusion: Reflections on Social Movements in Kerala', Paper presented in the workshop on Development and Social Movements in India 29- 31, Centre for Political Studies, Jawaharlal Nehru University New Delhi, March 2011.

'Caste Identities in Contemporary Kerala', Paper presented at CSDS Delhi April 11, 2011

A conference on Love and Revolution at Nehru Memorial Museum at New Delhi, Jan 20-22, Impossibility of Family

"Colonialism Social Movements and the Creation of Documents: Exploring the Archive of Dalit and other lower caste groups in Kerala, South West India", paper presented at the Workshop on Globalization and Preservation organized by Goldsmith College London, 3-8 September

Modernity of Slavery: Studies against Caste inequality in 20th century India, November 2011 Centre for the Advanced Study of India, University of Pennsylvania

Coordinated a panel on Dalit Social Movements: Questions of theory and knowledge production at IIS 40th World Congress Delhi 16-19 February 2012

Workshop on New Directions in the Study of Prayer, SSRC New York, October 5 - 6.

DEPARTMENT OF LIFE-LONG LEARNING & EXTENSION

Dr.K.Sabukuttan

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.

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

1. School of Behavioural Science

Interviews with scholars working in the field, administrators of center's working for persons with disability are arranged as a part of teaching and learning in addition to the regular Teaching and learning activities.

2. School of Bio-Science

The school organizes invited talks, conducts student seminars, workshops besides regular activities under Credit and Semester systems.

3. School of Chemical Science

Open Courses are offered to students of other Departments of the University. Such Courses are not content driven and strive to achieve all round capacity building. Here the emphasis is not on creation or decimation of knowledge but rather on equipping students to utilize the information available from various sources more effectively.

4. School of Computer Sciences

Smart class Facility, video conferencing facility.

5. School of Distance Education

6. School of Environmental Science

A program of learning through field work was conducted. Organized several lectures from international scholars under erudite program.

7. School of Gandhian Thought and Development Studies

Use of Computer aided Technology

8. School of Indian Legal Thought

Assignment and Seminar presentation, Moot courts and Mock Trails

9. School of International Relation & Politics

The school has developed very effective, transparent and rigorous international mechanisms to accesses 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. Periodic review sections are arranged, group-wise and individual wise, to monitor the levels of gap and to suggest remedial measures thereof. The school has evolved a learner friendly, need based, instructional / learning system to equip the students and research scholars to meet the emerging challenges. The instructional pattern apart, from its conformation- based mode, inculcates values of theory embeddedness self reflectivity and policy –alternatives. The learner friendly instructional system seeks to foster cognitive - analytical skill of students and, wherever necessary, provides space for the empowerment of the disadvantaged in the learning process through informal council ling and tutorial interface. While class room lectures continue to be an essential prerequisite 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 information system such as computer – internet services, TV, DVD, OHP and LCD projectors for lectures and seminars.

The school has 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. MPhil scholars have to submit a dissertation at the end of the second semester in a specialized area of the discipline. Innovative Evaluation process. Constant monitoring of individual and group performances.

10. School of Letters

The academic programmes offered by School of Letters are very innovative and had far reaching consequences in the academic world. To begin with the interdisciplinary M Phil programme introduced in 1990 inaugurated an era of academics marked by a focus on literary and cultural theory, the resonances of which were felt in the academic atmosphere in the entire state. It not only inspired other universities to redesign their syllabus but prompted even the publishing industry, government establishments to focus attention on this aspect of knowledge production. The same orientation marked our efforts while organizing a series of Refresher Courses for academics in the 1990s and the first decade of this century. That our efforts did not go in vain is amply demonstrated by the fact that literary theory has become an integral part of all post graduate programmes in the state.

We introduced the interdisciplinary M Phil programme with the specific intention of eliminating the age old distinction between language studies. It was also intended to introduce the idea of cultural studies as the basic methodological tool and to find new avenues of common interest among languages, especially English and Malayalam. A large number of projects cutting across disciplinary boundaries completed at School of Letters bear testimony to the success of this initiative. This also led to the establishment of comparative literature as a discipline in a big way. This was facilitated by the housing of students of Malayalam and English together. The evaluative components also included regular seminar presentations, assignments, term papers and classroom interaction. Needless to add, at this level the students are encouraged rather than instructed to deal with portions on their own. Internal assessment accounts for the major part of our evaluation for all our programmes.

In 1992 we introduced the M Phil programme in Theatre Arts for the first time in this part of the country. The programme, conceived primarily as a theoretical one, gave a system for the conceptual enquiry into the world of theatre and gave a much needed inspiration and theoretical rigour and methodological clarity to theatre research and established its position as an academic discipline. That many of our alumni occupy important positions in institutions within India and abroad testifies to the effectiveness of our programme. Students of many allied visual art forms like dance and cinema too join our programme. This too is indicative of the vindication of our academic position and standing. The success of these programmes is partly due to our efforts to find areas of convergence between, literature, theatre, dance and cinema.

Even when we continued our innovative ways, we did not disregard or look with disrespect traditional disciplines or disciplinary boundaries. As matter of fact, research in traditional aspects of culture explored with the theoretical tools gained from contemporary theory is one strong area of research at M Phil and PhD levels here. However studies in many areas, considered taboo in literary studies in the past, are actively being encouraged and supported at School of Letters. This includes, popular

literature (including detective stories), aspects of popular culture (including comic strips), film studies, translation studies, Dalit studies and so on. As matter of fact, an entire range of topics, methodologies and terminologies employed in the state takes its origin in School of Letters.

The first academic journal, (now with ISSN), Haritham, brought out by the University was from School of Letters. The journal into its twenty-first issue has already been noticed by the academic world and recognized by many universities in India and abroad. A collection of translation originally published in Haritham was a text book for long, for students of literature in the university at the UG level.

The PG programmes in English and Malayalam were started in 1997 with a very innovative curriculum designed by the faculty. The system conceived of each course (in the place of the conventional “papers”) as designed, taught and examined by a member of the faculty specializing in the area. This gave a high degree of autonomy to the programme with provision for revising the syllabus periodically. The programmes took into account the needs of Malayalam and English was named and designed as inter-literary, with two Common Core Courses, ten Core Courses and four Elective Courses, spread over four semesters. These along with a project and viva voce in Semester Four account for 72 Credits, the minimum required for a pass. The basic format of the programme was adapted with modifications by the university when it introduced the Credit, Course Semester Scheme (CSS) in the statutory departments.

The syllabuses for the various courses were designed in such a way that it ensured a comprehensive reading in area of special features and aspects. The texts were identified as the ones for required reading, recommended reading and background reading. This format allowed the faculty and the students to choose a method of dealing with the texts. This along with the system of assignments, seminars and term papers, obligatory components for internal assessment permitted the student also to take up, analyse and interpret certain texts on his/her own. As a rule texts in the recommended reading section of the syllabus were discussed in seminar presentations while those in the required reading list were for detailed discussion inside the classroom. This broad pattern has since been followed in the various curricula elsewhere. Evidently, our efforts have been of a pioneering nature.

Long before other institutions thought about replacing marks with something else, we had thought about and introduced them in our scheme. Even before our programmes became part of CSS, we had introduced a system of grading the students taking into account their performance during and at the end of the semester. This system of continuous and summative assessment graded the performance at the end of every semester (SGPA) and at the end of the programme (CGPA). This was also to ensure that no unhealthy competition existed among the pupils for ranks and positions. No need to add that at all levels grades have replaced marks.

To make our work in the fields of film studies more meaningful, we procured an 7D camera with state of the art accessories. Our students have from time to time made use of it by making films which have brought laurels to School of Letters and the University. This not only added variety to our activities, but also brought out the various creative talents of our students. It may be recalled that one of our students went on to make films which won national awards. Similarly we have procured copies of some of the finest classics in world cinema thus supplementing our fine collection of books in the library. This will definitely benefit scores of students working on films at various levels. Efforts are on to improve our collection by building up a collection of e-books. We have already procured a fine collection of bio-pics of major Malayalam writers brought out by SIET. A small collection of video-texts in Malayalam is another attraction of our library.

11. School of Pedagogical Sciences

Used technological devices for teaching/ learning process. Developed instructional packages, models and Strategies.

12. School of Physical Education & Sports Science

Commencement of Sports Academy, Proposal given for starting PG Programmes in Physical Education.

13. School of Pure and applied physics

Matlab Programme has been introduced for M Sc. Students and M Phil. Students. Advanced practical has been given for M Sc courses.

14. School of Management & Business Studies

Case study, live project, Assignment, Participative Learning

15. School of Social Science

Innovative process begin with conception of teaching programme. This is the only institution in Kerala that offers M Phil. Programme in Human Ecology and Natural History and Social transformation and Empowerment. Besides, the school has conceived all interdisciplinary orientation. The school has two classrooms equipped with new audiovisual technologies.

16. School of Tourism Studies

- Use of audio visual aids like LCD Projectors , Speakers, portable Mikes etc.
- Smart Class rooms with white Boards.
- Assignments – Seminars – Case study discussions – Tutorial – e-learning – role plays in language classes (English & French) , Group discussion - Mock interviews.
- Introduced semester plan for overall academic planning and timely execution.
- Destination visits
- Student news letter titled 'Ecovoice & Hue
- Use of ODLL Language Learning Software in language lab to enhance communication skills.
- SPSS Software for tourism research purpose used in 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.
- Developed and MOU with Purdue University and University of Wisconsin, USA for academic collaboration and submitted a proposal for concurrence as a part of Obama – +Singh initiative for Indo- Us academic collaboration.

17. Department of Life-Long Learning & Extension

Education was imported through non formal media.

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

Rincymol Mathew

- Attended one day workshop on capacity building for nurse educators organized by Government College of Nursing, Kottayam.
- Attended one day interface training programme for teachers organized by FLAIR, Department of Higher Education Govt. of Kerala.

Dr. Razeena Padmam.

- Attended workshop on Facilitating leadership and managerial efficiency organized by St. Xavier’s Institute of Management, Bhuvanesar from 27th – 29thJan.11 .
- Attended training on “Effective team management” organized by TSF South Asia and TISS, Mumbai fro 6-9th December 2011.
- Attended 3 days workshop on “counseling Skills” organized at Tata Institute of Social Sciences, Mumbai from 16-19 ay 2011.

SCHOOL OF COMPUTER SCIENCES

Prof. (Dr.) R. Vijayakumar

- Organized and served as the resource person of Workshop on “Teaching Learning Process”, at School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.

Ms. Bindu V.R.

- Attended a Workshop on “Teaching Learning Process” by Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.
- Organized and attended a Workshop on “MCA Syllabus Revision” as Chairperson, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala 2011.
- Attended a Workshop on “Laws Related to Sexual Harassment” organized by Anti-Harassment Cell of Mahatma Gandhi University, Kottayam, Kerala in June 2011.
- Attended DTE Sponsored Short Term Training Programme on “Soft Computing Techniques for Engineering Research” organized by Govt. Engineering College, Kottayam, Kerala, November 2011.
- Attended a Workshop on “Research Methodology” by Prof. (Dr.) Achuth Sankar S. Nair, Director, State Inter University Centre of Excellence in Bio-Informatics, University of Kerala organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012.
- Attended a Thematic Discussion on “Green Computing” organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012.

Ms. Pushpalatha K.P.

- Attended a Workshop on “Teaching Learning Process” by Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.
- Attended a Workshop on “MCA Syllabus Revision” organized by Ms. Bindu V.R., Chairperson, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala, 2011.
- Attended a Workshop on “Laws Related to Sexual Harassment” organized by Anti-Harassment Cell of Mahatma Gandhi University, Kottayam, Kerala, June 2011.
- Attended a workshop on “e-Astronomy and Statistics”, *in Association with School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, Kerala.*
- Attended a Workshop on “Research Methodology” by Prof. (Dr.) Achuth Sankar S. Nair, Director, State Inter University Centre of Excellence in Bio-Informatics, University of Kerala organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012.

- Attended a Thematic Discussion on “Green Computing” organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012.

Ms. Anuj Mohamed

- Attended a Workshop on “Teaching Learning Process” by Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.
- Attended a Workshop on “MCA Syllabus Revision” organized by Ms. Bindu V.R., Chairperson, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala, 2011.
- Organized and attended a Workshop on “Laws Related to Sexual Harassment” as Convenor, Anti-Harassment Cell, Mahatma Gandhi University, Kottayam, Kerala, June 2011.
- Organized and attended a workshop on “e-Astronomy and Statistics”, *in Association with School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, Kerala.*
- Attended DTE Sponsored Short Term Training Programme on “Soft Computing Techniques for Engineering Research” organized by Govt. Engineering College, Kottayam, Kerala, November 2011.
- Attended DTE Sponsored Short Term Training Programme on “Recent Trends in Audio and Speech Processing” organized by Govt. Engineering College, Kottayam, Kerala, November 2011.
- Attended a Workshop on “Research Methodology” by Prof. (Dr.) Achuth Sankar S. Nair, Director, State Inter University Centre of Excellence in Bio-Informatics, University of Kerala organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012.
- Attended a Thematic Discussion on “Green Computing” organized as part of INBOFA 2012 by Mahatma Gandhi University, Kottayam, Kerala, January 2012.

SCHOOL OF LETTERS

- Dr. Harikumar S. Attendance at Refresher Course ASC University of Calicut during 9/6/2011-29/6/2011.

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

Faculty	Title	Funding agency	Amount (Lakhs)
	Global fund project on HIV/AIDS counselling		

School of Bio-Science

Faculty	Title	Funding agency	Amount (Lakhs)
Dr Linu Mathew (PI) Dr K G Padmakumar (Co-PI)	Barcoding and genetic diversity analysis of <i>Clarias spp</i> of Kerala	KSCSTE	14.7
Dr.Jayachandran.K	Safety Evaluation of the process of Chlorination in drinking water system with specific reference to Chlorination derived By-products	UGC	9.6
Dr.Radhakrishnan EK (PI) Prof.(Dr.)Jyothis Mathew (Co-PI)	Molecular Exploration of Spice Associated Bacteria for Bioactive metabolites and PKS-NRPS genes	DBT-RGYI Scheme	15.0
Dr.Radhakrishnan EK (PI) Prof.(Dr.)Jyothis Mathew (Co-PI) Dr.Sheela Sugathan (Co-PI)	Molecular Studies on Biofilm formation in Coagulase Negative Staphylococci	ICMR	22.0
Dr.R.Harikumaran Nair	Evaluation of the protective effect of omega-3 fatty acid against arsenic trioxide induced cardiac toxicity in cancer therapy	UGC	9.48
Dr. Jisha M.S	Molecular Basis of Sodium Dodecyl Sulphate (SDS) Bioremediation & Bioreactor Designing	KSCSTE	13.5
Dr.Keerthi T R	Production, Purification and Characterization of antagonistic principles of Potential Aquaculture probiotics	UGC	10.78
	Protective effect of <i>Elephantopus scaber</i> Linn. A traditional medicinal plant on hepatic fibrosis and hepatocellular carcinoma	KSCSTE	
Dr Prakash Kumar	In vitro studies on inhibition of eicosanoid metabolism for control of arthritis by extracts of stem of <i>Tinospora cordifolia</i>	Department of Biotechnology	21.17

	Evaluation of methanolic extracts Elephantopus scaber for inhibitors of 5-lipoxygenase (5-LOX) and cyclooxygenase-2 (COX-2)	KSCSTE	15.72
Dr JG Ray (PI) Dr N Valsalakumar (Co-PI)	Endomycorrhizal Studies in Musa Sp of South India		13.5

School of Chemical Science

Faculty	Title	Funding agency	Amount (Lakhs)
Dr Sabu Thomas	Development of Nanostructured Polymer blends (2008-2011)	DBT	50
Dr Sabu Thomas	Development of nano clay epoxy liquid rubber composites (2008-2011)	UGC	8
Dr Sabu Thomas	Development of membranes for zero gas transport (2009-2012)	DST	40
Dr Sabu Thomas	Development of carbon nano tube filled natural rubber latex nano composites (2009-2012)	GC-DAE -INDO	7
Dr Raju Francis	Synthesis and application of star block copolymers, dendrimers and stargel containing biocompatible block (2007-2011)	CSIR	13.23
Dr Raju Francis	Tuning the properties of stimuli sensitive copolymers - a step towards purification of water (2009-2012)	DST	28.35
Dr I Ibnusaud	University Centre for Guiding innovative research and development and protecting intellectual property rights (2008-2011)	Presidents Mission in the State Plan	40
Dr I Ibnusaud	NMR facility under IRHPA (2009-2011)	DST	155

School of Environmental Science

Faculty	Title	Funding agency	Amount (Lakhs)
Dr C T Aravinda kumar	Radiation and photochemical studies chitosan modified polycyclic hydrocarbons	BRNS	15
Dr C T Aravinda kumar	Radiation induced modification of some pyrimidine nucleosides and nucleotides	DAE - IUC	4
Dr C T Aravinda kumar	Sonochemical degradation of organic water pollutants	KSCSTE	14.5

Projects submitted

- Major Research proposal titled 'Biomarker based genotoxicity assessment of PAH and a few heavy metals on selected benthic organisms of Cochin Estuary' –submitted to MoES – by Dr.E.V.Ramasamy
- Major Research proposal titled Assessment of Green House Gas (GHG) Emission from Municipal Solid Waste Management Systems, submitted to Department of Environment and Climate Change (DoECC) Govt. of Kerala – by Dr.E.V.Ramasamy
- A proposal for the purchase of research equipment for the enhancement of research at this school to DoECC, Govt of Kerala – by Dr.E.V.Ramasamy, Director, SES.

School of International Relation & Politics

Faculty	Title	Funding agency
K.M. Seethi	Health, Environment and Human Security: Impact of Pesticide Use in Kerala	UGC
	Statelessness, Citizenship and Human Security: A Study on the Repatriated Tamils in Kerala	ICSSR
Raju K. Thadikkaran	Global Intellectual Property Rights Regime and India: Challenges and Opportunities in the Protection of Intellectual Property Related to Biodiversity and Traditional Knowledge	UGC
	Internationalisation of the Realm of Higher Education: A study on the Experience of University Teaching and Research Departments, Professional colleges and Research Institutions in Kerala	Kerala State Higher Education Council (KSHEC)
C.Vinodan	Energy Security for the Emerging India: A study on the problems and Prospects of expanding the nuclear option	UGC

School of Pure and applied physics

Faculty	Title	Funding agency
Dr. Nandakumar Kalarikkal As PI	Dynamics of plasma plume evolution during LASER ablation of metal target in stationary flowing liquid medium	DST PURSE
	Ion beam irradiation effects on the structural and ferroic properties of selected sol-gel derived films of nanomultiferroics	UGC-DAE-CSR
	Development Of One Dimensional Multiferroic Nanocomposites For Device Applications	KSCSTE-SRS
	Nanoparticle aggregation behavior in polymer nanocomposites	UGC-DAE-CSR Kolkata Centre
Dr. Nandakumar Kalarikkal As Co-PI	Development of engineered nano-structured materials for high performance applications	DST- Nanomission
Co-PI	Development of super tough nanocomposites from epoxy resin, liquid rubber and nanoclay	KSCSTE-SARD
Co-PI	Development of Multi Walled Carbon Nanotube Filled Polycarbonate/ Polypropylene Double Percolating Conductive Polymer Blend Nanocomposites for Electromagnetic Interference Shielding Gaskets for Mobile Phones	DeitY
Dr. Cyriac joseph (Co-PI)	Preparation of Novel Planar Optical waveguides via ion- exchange/ Sol-gel route and their characterization	KSCSTE
	Synthesis and characterization of tellurite based device materials	CSIR

3.3 Minor Projects

School of Bio-Science

Faculty	Title	Funding agency	Amount (Lakhs)
Dr. Anie Y (PI) Mrs. Resmi S (Co-PI)	Chemotactic response of human Phagocytic cells	UGC	1.84

	(Polymorphonuclear leukocytes and monocytes) in tuberculosis patients		
Dr.Jayachandran	Demonstration and Extension of Vermicomposting technique for the Solid Waste Treatment to Athirumpuzha Gramapanchayath, Kottayam District	BIRD Project	

3.4 Details of Research Publications

SCHOOL OF BIO-SCIENCE

A. Peer Review Journals

1. Abhilash M, Sauganth Paul MV, Mathews V Varghese, Harikumaran Nair R. Effect of long term intake of aspartame on antioxidant defense status in liver. Food Chem Toxicol. 2011 Jun;49(6):1203-7. IF 2011 (2.99) 2015(2.895)
2. AK Asok, KK Ratheesh, PM Sherief, MS Jisha (2012). Oxidative Stress and Changes in Gill Morphology of Grass Carp (Ctenopharyngodon idella) Exposed to Sublethal Concentrations of the Anionic Surfactant Linear Alkylbenzene Sulphonate (LAS). Global Journal of Applied Environmental Sciences. ISSN 2248-9932 Volume 2, Number 1 (2012), pp. 1-11.
3. AK Asok, KK Ratheesh, PM Sherief, MS Jisha (2012). Oxidative Stress and Changes in Gill Morphology of Grass Carp (Ctenopharyngodon idella) Exposed to Sublethal Concentrations of the Anionic Surfactant Linear Alkylbenzene Sulphonate (LAS). Global Journal of Applied Environmental Sciences. ISSN 2248-9932 Volume 2, Number 1 (2012), pp. 1-11.
4. AK Asok, MS Jisha (2012).Assessment of soil microbial toxicity on acute exposure of the anionic surfactant linear alkylbenzene sulphonate. Journal of Environmental Science and Technology pp 1-10. ISSN 1994-7887. DOI: 10.3923/jest.2012.
5. Ambily PS and Jisha MS.(2011) Characterization of Alkyl sulphatase required for the biodegradation of Sodium Dodecyl Sulphate (SDS). European Journal of Experimental Biology. 1 (4):41-49 ISSN 2248-9215
6. Ansil PN, Prabha SP, Nitha A, Wills PJ, Jazaira V, Latha MS. Curative effect of Amorphophallus campanulatus (Roxb.) Blume. tuber methanolic extract against thioacetamide induced oxidative stress in experimental rats. Asian Pacific Journal of Tropical Biomedicine. 2012,2(1):S83-S89. IF 2015 (0.826)

7. Anu P. Sebastian and Keerthi T. R.2011. Adhesion and cell surface properties of wild species of sporeformers against enteric pathogens, Asia Pacific Journal of tropical medicine. Pages:ISSN 1995-7645 IF 2015(0.826)
8. Anu P. Sebastian and Keerthi T. R.2011.Probiotic effect of wild species of Bacillus spore formers and its effect on enteric pathogens. International Journal of Pharma and Bio Sciences ,ISSN 0975-6299. 3(1): 327-334. SCI mago journal ranking (SJR) (0.288)
9. Aparna Balakrishna and T. R. Keerthi.2011.Characterization of siderophore produced by the gut microflora of *Poecilia reticulata* for potential use as probiotic in aquaculture. J.Plant. Pathol. Microbiol. Volume S1: 013(2011) /Special Issue 2011, doi: 10.4172/2157-7471.1000001. Special issue.
10. Aparna Balakrishna and T. R. Keerthi.Screening of potential aquatic probiotics from the major microflora of guppies (*Poecilia reticulata*), Front. Chem. Sci. Eng. Pages: DOI 10.1007/s11705-012-1283-4. ISSN 2095-0179(print) 0189(online) (0.28)
11. AR Sandheep, AK Asok and Jisha M.S. (2012). Biocontrol of fusarium wilt of vanilla (*vanilla planifolia*) Using combined inoculation of *Trichoderma* sp. And *Pseudomonas* sp. International Journal of Pharma and Bio Sciences. July; 3(3): (B) 706 – 716. Impact factor.0.5
12. AR Sandheep, AK Asok and Jisha M.S. (2012). Biocontrol of fusarium wilt of vanilla (*vanilla planifolia*) Using combined inoculation of *Trichoderma* sp. And *Pseudomonas* sp. International Journal of Pharma and Bio Sciences. July; 3(3): (B) 706 – 716. Impact factor.0.5
13. D Yeldho, S Rebello, Jisha MS (2011).Plasmid mediated biodegradation of the anionic surfactant Sodium Dodecyl sulphate (SDS) by *Pseudomonas aeruginosa* S7. Bull. Environ. Contam Toxicol. 86(1):110-113.DOI 10.1007/s00128-010-0162-2. Impact factor 1.37
14. Divya Mohan, Suja Philip and Jyothis Mathew (2012).A comparative study of antibiotic resistance in bacterial isolates from industrially polluted and un polluted water. Asian Journal of Water, Environment and Pollution 9(3) 79-81 SJR- 0.13
15. Evaluation of antibacterial activity of silver nanoparticles synthesized by a novel strain of marine *Pseudomonas* sp. Roshmi Thomas¹,Aswathy Viswan , Jyothis Mathew and Radhakrishnan E K Nano Biomed. Eng. 2012, 4(3),139-143 SJR 0.56
16. Itoh T., Tokunaga K., Radhakrishnan EK., Fujii I., Abe I., Ebizuka Y., Kushiro T .2012. Identification of a key prenyltransferase involved in biosynthesis of the most abundant fungal meroterpenoids derived from 3,5-dimethylorsellinic acid. ChemBioChem. Pages: 2012, 13(8):1132- 1135. IF 2014(3.088)

17. J Stephen, MS Jisha (2011).Gluconic acid production as the principal mechanism of mineral phosphate solubilization by Burkholderia sp. (MTCC 8369).(2011). Journal of Tropical agriculture, 49(1-2), 99-103. ISSN 0971 630 X SJR (0.17)
18. Jacob L, Latha MS. Anticancer activity of Clitoria ternatea linn. against Dalton's lymphoma. International Journal of Pharmacognosy and Phytochemical Research. 2012, 4(4):207-212. ISSN- 0975-4873 SJR (0.22)
19. Jacob L, Latha MS. Antitumour and antioxidant activities of Clitoria ternatea against Ehrlich ascites carcinoma. International Journal of Drug formulation and Research. 2012,3:81-92. ISSN 0975 -9344 SJR (0.25)
20. Jiji Mathew, Suja Philip and Jyothis Mathew (2011).Production of extracellular uricase from Penicillium sp.F31 by solid substrate fermentation using wheat bran. The Journal of Zoological Society of Kerala 14 (1&2) 54-62- IF 0.14
21. Juss.ex Shultes. M. S. Surya, Mohammed Ashiq and Jayachandran, K (2012). In vitro propagation and vanillin production from Aerva lanata (L.) Indian Journal of Life Sciences 2 (1);9-15.2012.. ISSN 2277-1743(print) 7879 (online)
22. Jyothis Mathew, Shini Zacharia.2012.Antibiotic Resistant Enterococci From Drinking Water Sources Asha Peter, Asian Journal of Pharmaceutical and Clinical Research , 2012 ,Vol 5, Suppl 3,pp 158-160 IF 0.52 ISSN 0974-2441 SJR (0.4)
23. Keratinophilic fungal diversity of soil from Ernakulam and Thrissur districts – Kerala Mini K.D*, Jyothis Mathew, Sampath kumar. S Mini and K. Paul European Journal of Experimental Biology, 2012, 2 (4):1261-1264 ISSN:2248-9215
24. Latha MS, Nitha A, Ansil PN, Prabha SP. Chemopreventive effect of Woodfordia fruticosa Kurz flowers on n-nitrosodiethylamine induced hepatocellular carcinoma in rats. International Journal of Advances in Pharmaceutical Research. 2012,3(12):1322-1330. Iscn 2249-72269(print) 2230-7583(online)
25. Linu Mathew, Sankar Sashidhar, Chemopreventive potential of methanol extract of stem bark of Cassia fistula in mice, Journal of Pharmacognosy and herbal formulations,vol2 , (ISSN2229-6840)(2012)
26. Mini K Paul, Mini K D ,Ally C Antony, E. K. Radhakrishnan and JyothisMathew.2012).Utilization of prawn shell powder for the production of chitinase by Kurthia gibsonii MB126. Int J Pharm Bio Sci 3(3): B 163 – 172 ISSN-0975-6299 SJR (0.33)
27. Nitha A, Ansil PN, Prabha SP, Wills PJ, Latha MS. Preventive and curative effect of Woodfordia fruticosa Kurz flowers on thioacetamide induced oxidative stress in rats. Asian Pacific Journal of Tropical Biomedicine.2012, S757-S764. IF 2015 (0.826)

28. P.A. Sajudeen, Jiji Thomas, Koshy.P.M, Mohammed Ashiq, Jayachandran K (2012). Larvicidal Activity of *Strychnos nuxvomica* against *Anopheles stephensi*. *Ecology Environment and Conservation*, 18 (4). 83-86. ISSN 0971-7651 SJR-0.1
29. PN Ansil, A Nitha, SP Prabha, PJ Wills, V Jazaira and MS Latha, Protective effect of *Amorphophallus campanulatus* (Roxb) Blume.tuber against thioacetamide induced oxidative stress in rats, *Asian Pacific Journal of Tropical Medicine*. 2011, 870-877.IF 2015(0.826)
30. Prakash Kumar B, Jenny Jacob, Jomy Augustine.2011. Dual Inhibition of Lipoxygenase/Cyclooxygenase by An Ayurvedic Herb, *Tinospora cordifolia* (WILLD.); Possible Explanation For Anti-inflammatory Activity.*Journal of Pharmacy Research* Vol.4.Issue 6. June 2011, ,Pages: 1779-80
31. PS Ambily, MS Jisha (2012)..Biodegradation of the anionic surfactant, sodium dodecyl sulphate by *pseudomonas aeruginosa* MTCC 10311. *Journal of Environmental Biology*. 33: 717-720. Impact factor 0.68
32. PS Ambily, MS Jisha (2012).Biodegradation of the anionic surfactant, sodium dodecyl sulphate by *pseudomonas aeruginosa* MTCC 10311. *Journal of Environmental Biology*. 33: 717-720. Impact factor 0.68
33. Rashmi PA, Reshma John and Linu Mathew.2012. Isolation and characterisation of vasicine from in vitro Cultures of *Justicia adhatoda*, *international journal of Pharma and Bio Scviences*3(3)/B58-64.ISSN.0975-6299. SJR 0.33
34. Ray J G and George J (2011) Nickel in Soils and Resilient Plants on Roadsides in Kerala, South India, *Journal of Soil Science*, Vol. 12 No.1-2, 12-23
35. Ray J G and George K. J. (2011) Cation Exchange Capacity of Roots of Wild Grasses and the Ecological Implications, *Ecology and Noosphereology*, Vol 2, No.3-4, 58-72.
36. Reshma John, Siji Raju, Jyothis Mathew, Linu Mathew, Endophytic associations in *Achyranthes aspera* L. *Journal of Science, Technology And Management*, Vol 04 ,No2,9-13(2012) ISSN 2394 - 1329 (Print) 2394 - 1537 (Online)
37. Sajudeen P.A., Mohammed Ashiq and Jayachandran. K (2012).Pilgrimage and depleting water quality; A preliminary study on river Pampa. *Ecology Environment and Conservation*, 18 (4) 869-872. ISSN 0971 -765 SJR - 0.1
38. Sheeba KO, Wills PJ, Latha B, Rajalekshmy R, Latha MS. Antioxidant and antihepatotoxic efficacy of methanolic extract of *Elephantopus scaber* Linn in Wistar rats. *Asian Pacific Journal of Tropical Disease*.2012,1-5. ISSN 2222-508, SNIP - 0726, SJR - 0340

39. Shini Zacharia, Asha Peter, Jyothis Mathew, P.C Ravindran .2012.Periplanata Americana - A Carrier Of Multi Resistant Listeria Species. Asian Journal of Pharmaceutical and Clinical Research 2012,Vol 5, Issue 4 pp 24-27 IF 0.52 ISSN 0974 – 2441 SJR – 0.4
40. SP Prabha, PN Ansil, A Nitha, PJ Wills, MS Latha, Preventive and curative effect of methanolic extract of Gardenia gummifera Linn .f. on thioactamide induced oxidative stress in rats, Asian Pacific Journal of Tropical Disease 2012,90-98. ISN 2222 – 1808 SJR – 0.340, SNIP – 0.726
41. Sreeja Narayanan, Tintu Prasad, Indu C Nair and Jayachandran.K (2012). A novel exploitable feature of “Chromobacterium violaceum” –experimentaql evidence for phenol degradation. Novus International Journal of Biotechnology and Bioscience, 1(3),
42. Suja Philip, E K Radhakrishnan, Jyothis Mathew.2012. Antimicrobial Susceptibility And Plasmid Pattern Analysis Of Coagulase Negative Staphylococci Isolated From Different Sources. Asian Journal of Pharmaceutical and Clinical Research 2012,Vol 5, Issue 4 pp 207-210 IF 0.52 ISSN 0974 – 2441 SJR 0.4
43. Suja Philip, Minu Thomas, Radhakrishnan EK and Jyothis Mathew.2011 Species Distribution and Virulence Properties of Coagulase-Negative Staphylococci Isolated from Human and Domestic Animal Sources, 13(4): 743-748.
44. Suja Philip,Minu Thomas, E.K.Radhakrishnan and Jyothis Mathew (2011).Species distribution and virulence properties of coagulase –negative staphylococci isolated from human and domestic animal sources. Asian Journal of Microbiology Biotechnology & Environmental Sciences 13(4)743-748 H index-11 ISSN 0972 – 3005 SJR – 0.11
45. The journal of Food Technology,Photon,Title of the Paper: : Honey bee Gut flora as a source of LAB(Lactic Acid Bacteria) with probiotic capabilities,Author : Keerthi Thalakkattil Raghavan,Anjali Ann Jacob,Honey Chandran.Pages: Photon 105,126-134,ISJN:3852-1875,Impact factor of the publication:Impact index: 3.14
46. Thomas Minu, Philip Suja and Mathew Jyothis (2011). Biosurfactant production Pseudomonas sp.G6 by solid substrate fermentation using coconut oil cake as the substrate. Research Journal of Biotechnology 6 (2) 18-23 IF 0.28

SCHOOL OF CHEMICAL SCIENCES

1. Poly (acrylonitrile-butadiene-styrene) Modified Epoxy–Amine Systems Analyzed by FTIR and Modulated DSC P Jyotishkumar, J Pionteck, L Häußler, G Adam, S Thomas , Journal of Macromolecular Science, Part B (2012) 51 (7) 1425-1436

2. Effect of nanoclay and carboxyl-terminated (butadiene-co-acrylonitrile)(CTBN) rubber on the reaction induced phase separation and cure kinetics of an epoxy/cyclic anhydride system, PP Vijayan, D Puglia, P Jyotishkumar, JM Kenny, S Thomas, Journal of Materials Science, (2012) 1-13
3. A Direct SAXS Approach for the Determination of Specific Surface Area of Clay in Polymer-Layered Silicate Nanocomposites, C Marega, V Causin, R Saini, A Marigo, AP Meera, S Thomas, U Devi The Journal of Physical Chemistry B, (2012) 116(25) 7596-602
4. Wetting Properties of Barium Sodium Niobate Filled Polystyrene Nanocomposite R Abraham, KT Varughese, J Isac, S Thomas, Macromolecular Symposia, (2012) 315 (1) 1-14
5. Effect of Rubber-Filler Interaction on Transport of Aromatic Liquids through High Density Polyethylene/Ethylene Propylene Diene Terpolymer Rubber Blends AK PV, KT Varughese, S Thomas, Industrial & Engineering Chemistry Research (2012) 51 (19) 6697-6704
6. Ca₃(PO₄)₂-incorporated poly (ethylene oxide)-based nanocomposite electrolytes for lithium batteries. Part II. Interfacial properties investigated by XPS and ac impedance studies
AM Stephan, T Prem Kumar, S Thomas, R Bongiovanni, JR Nair, N Angulakshmi, A., Journal of Applied Polymer Science, (2012) 124 (4) 3255-3263
7. Calcium phosphate incorporated poly (ethylene oxide)-based nanocomposite electrolytes for lithium batteries. I. Ionic conductivity and positron annihilation lifetime spectroscopy studies
8. AM Stephan, TP Kumar, S Thomas, PS Thomas, R Bongiovanni, JR Nair, N Angulakshmi, Journal of Applied Polymer Science, (2012) 124 (4) 3245-3254
9. Crosslinked natural rubber nanocomposites reinforced with cellulose whiskers isolated from bamboo waste: Processing and mechanical/thermal properties PM Visakh, S Thomas, K Oksman, AP Mathew, Composites Part A: Applied Science and Manufacturing (2012) 43 (4) 735-741
10. Effect of blend ratio on the mechanical and sorption behaviour of polymer-polymer microfibrillar composites from low-density polyethylene and polyethylene terephthalate
K Jayanarayanan, S Thomas, K Joseph, Journal of Reinforced Plastics and Composites (2012) 31 (8) 549-562

11. Cellulose nanofibres and cellulose nanowhiskers based natural rubber composites: Diffusion, sorption, and permeation of aromatic organic solvents PM Visakh, S Thomas, K Oksman, AP Mathew, *Journal of Applied Polymer Science*, (2012) 124 (2) 1614-1623
12. Correlation between orientations of nanoclay and natural rubber crystallites in natural rubber/clay nanocomposites M Petković Didović, AP Meera, S Valić, S Thomas, PA Albouy, *POLYCHAR 20 March 26-30, Croatia* (2012)
13. Effect Of Cellulose Nanofibers Isolated From Bamboo Pulp Residue On Vulcanized Natural Rubber PM Visakh, S Thomas, K Oksman, AP Mathew, *BioResources* (2012) 7 (2) 2156-2168
14. Permeation of Chlorinated Hydrocarbon Vapors through High Density Polyethylene/Ethylene Propylene Diene Terpolymer Rubber Blends PVA Kumar, SA Kumar, KT Varughese, S Thomas, *Separation Science and Technology*(2012) 47 (6) 811-818
15. Enhancement of thermal stability, strength and extensibility of lipid-based polyurethanes with cellulose-based nanofibers M Floros, L Hojabri, E Abraham, J Jose, S Thomas, L Pothan, AL Leao, S Narine, *Polymer Degradation and Stability* (2012) 97(10), 1970-1978
16. Preparation and characterization of EVA/clay Nanocomposites with improved barrier performance R Wilson, TS Plivelic, AS Aprem, C Ranganathaiah, SA Kumar, S Thomas *Journal of Applied Polymer Science*, (2012) 123 (6) 3806-3818
17. Polystyrene/calcium phosphate nanocomposites: Morphology, mechanical, and dielectric properties TP Selvin, S Thomas, NE Zafeiropoulos, S Bandyopadhyay, A Wurm, C Schick, *Polymer Engineering & Science*, (2012) 52 (3) 689-699
18. Effect of Cure Conditions on the Generated Morphology and Viscoelastic Properties of a Poly (Acrylonitrile-Butadiene-Styrene) Modified Epoxy–Amine System. J Parameswaran Pillai, J Pionteck, R Haßler, C Sinturel, VS Mathew, S Thomas, *Industrial & Engineering Chemistry Research* (2012) 51 (6) 2586–2595
19. Chlorobutyl rubber nanocomposites as effective gas and VOC barrier materials A Saritha, K Joseph, S Thomas, R Muraleekrishnan, *Composites Part A: Applied Science and Manufacturing*, (2012) 43 (6) 864-870

20. Thermophysical and mechanical properties of TiO₂ and silica nanoparticle-filled natural rubber composites AP Meera, R Tlili, A Boudenne, L Ibos, V Poornima, S Thomas, Y Candau *Journal of Elastomers and Plastics* (2012): 0095244311432611
21. Viscoelastic effects in thermoplastic poly (styrene-acrylonitrile)-modified epoxy-DDM system during reaction induced phase separation P Jyotishkumar, P Moldenaers, SM George, S Thomas, *Soft Matter*(2012) 8 7452-7462
22. Starch-Based Bionanocomposites: Processing and Properties PM Visakh, AP Mathew, K Oksman, S Thomas, *Polysaccharide Building Blocks*, (2012) 287.
23. Molecular Transport of Aromatic Solvents through Oil Palm Micro Fiber Filled Natural Rubber Composites: Role of Fiber Content and Interface Adhesion on Transport S Joseph, S Thomas, K Joseph, U Cvelbar, P Panja, M Ceh., *Journal of Adhesion Science and Technology*(2012) 26 (1-3) 271-288
24. Transport properties of polyester composite reinforced with treated sisal fibers PA Sreekumar, B Agoudjil, A Boudenne, G Unnikrishnan, L Ibos, M Fois, S Thomas., *Journal of Reinforced Plastics and Composites* (2012) 31 (2) 117-127
25. Transport properties of high-density polyethylene/ethylene propylene diene terpolymer blends, PV Anil Kumar, S Anil Kumar, KT Varughese, S Thomas., *Journal of Materials Science* (2012)47 (7) 3293-3304
26. Transport behavior of aromatic hydrocarbons through high density polyethylene/ethylene propylene diene terpolymer blends PV Anil Kumar, S Anilkumar, KT Varughese, S Thomas., *Journal of Polymer Research* (2012) 19 (1) 1-12
27. Electrical properties of short sisal fiber reinforced polyester composites fabricated by resin transfer molding. P.A. Sreekumar, Jean Marc Saiter, Kuruvilla Joseph, G. Unnikrishnan, Sabu Thomas *Composites Part A: Applied Science and Manufacturing* (2012) 43 (3) 507-511
28. Effect of filler geometry on the diffusion and transport behavior of aromatic solvents and commercial oil through nitrile rubber nanocomposites P.C. Thomas, E. Tomlal Jose, Gejo George, Sabu Thomas and Kuruvilla Joseph., *Polymer Composites*33(2012) (12) 2236–2244
29. Cure kinetics and thermal stability of micro and nanostructured thermosetting blends of epoxy resin and epoxidized styrene-block-butadiene-block-styrene triblock copolymer systems, Sajeev Martin George, Debora Puglia, Josè M. Kenny, P. Jyotishkumar and Sabu Thomas *Polymer Engineering & Science* (2012) 52(11) 2336–2347

30. High performance HTLNR/epoxy blend—Phase morphology and thermo-mechanical properties V S Mathew, P. Jyotishkumar, Soney.C. George, P Gopalakrishnan, L Delbreilh, J M Saiter, P J. Saikia, S Thomas., Journal of Applied Polymer Science (2012) 125(1) 804–811
31. The role of surfactant type and modifier concentration in tailoring the properties of chlorobutyl rubber/organo clay nanocomposites A. Saritha, Kuruvilla Joseph, Sabu Thomas and R. Muraleekrishnan Journal of Applied Polymer Science(2012) 124 (6) 4590–4597
32. Comparison of Theory with Experimental Data for Nanoclay-Filled TPU/PP Blend Murugasamy Kannan, Suggu Bhagawan, Sabu Thomas, Kuruvilla Joseph Ind. Eng. Chem. Res., (2012), 51 (41)13379–13392
33. In-situ Cure and Cure Kinetic Analysis of a Liquid Rubber Modified Epoxy Resin Raju Thomas, Christophe Sinturel, Jürgen Pionteck, Harinarayanan Puliyalil, Sabu Thomas., Ind. Eng. Chem. Res., (2012), 51 (38) 12178–12191
34. Clay Intercalation and its Influence on the Morphology and Transport Properties of EVA/Clay Nanocomposites Runcy Wilson, Sajeev Martin George, Hanna J. Maria, Tomás S. Plivelic, Anil Kumar S, Sabu Thomas., J. Phys. Chem. C, (2012), 116 (37) 20002–20014.

SCHOOL OF COMPUTER SCIENCES

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

National

1. Anju Prathap, R Vijayakumar “Agent based Multi Expert Synthesis System for the Diagnosis of Communicative and Cognitive Disorders in children”, National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
2. Anju Prathap, R Vijayakumar, “Connectionist based CBR for Intelligent Medical Diagnosis ”, Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012
3. Benazir. K.K, “Non Minutiae based Fingerprint matching”, Conference on Computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012
4. Juby Mathew, Dr. R Vijayakumar, “Performance of Parallel Algorithms by Ambad’s Law”, International Journal of Computer Science and Technology, March 2012. (Impact factor 2).

5. Kiran V.K, R Vijayakumar, "Sequence Analysis with Artificial Neural Networks", Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012.
6. Mini.T.V, Sunil Sunny, Vijayakumar R., " Measure Web page Similarity with Hyperlink Transitivity to retrieve relevant Web Pages " , National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011.
7. Muhamed Ilyas, "Location privacy in location based services", National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
8. Praveen Kumar B T, "Adaptive median filter based on homogeneity level information", National Conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
9. Pushpalatha.K.P, G.Raju "Effects of Distributional Features in Text Document Retrieval", Conference on computing Paradigms and Bio-informatics (CPBI 2012), School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January,2012.
10. Shameem Kappan, R Vijayakumar, "Development of a framework for protection of multimedia content over wireless networks by biometrics-based scalable encryption", National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
11. Sherin Mathew, R. Vijayakumar, "A Comparative Study on Off-line Handwritten Malayalam Script Recognition Using Neural Network", Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January,2012.
12. Sunil Sunny Chalakkal, Mini T V, R.Vijayakumar "Data Mining Application in Banking: using Clustering Algorithm Design", Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012
13. Unnikrishnan G, R Vijayakumar, "Raga Recognition using Self-Organising Feature Maps", Conference on computing Paradigms and Bio-informatics (CPBI 2012), SOCS, MG University, January, 2012.

International

1. Anuj Mohamed, K.N. Ramachandran Nair, *HMM/ANN Hybrid Model for Continuous Malayalam Speech Recognition*, Procedia Engineering, Vol. 30, pp. 616-622, 2012. (ISSN: 1877-7058).
2. Bindu VR, Dr. K.N. Ramachandran Nair, Shape Modeling Using A Variational Level Set Formulation, Proceedings of IEEE International Conference on Computational Intelligence and Computing Research (2011 IEEE ICCIC) Dec 15-18, 2011 (ISBN:978-1-61284-694-1).
3. K K Benazir, R Vijayakumar, "Robust Enhanced Algorithm for Fingerprints", International Conference on Global Computing (ICGC), March, 2011 ID No: Comp-13.
4. Pushpalatha.K.P, G.Raju. "Compactness – A Useful Feature for Generating Search Index", in Proceedings of IEEE International Conference on Technology Enhanced Education (ICTEE2012), Amrutha University, Kollam, Kerala, January 2012.

5. Pushpalatha.K.P, G.Raju. "Computing Search Index Using Distributional Features", in Proceedings of International Conference on Advances in Computing (ICAC 2011), Department of CSE, PSG College of Technology, Coimbatore, Dec 9-11, 2011.

SCHOOL OF ENVIRONMENTAL SCIENCES

A. Peer Review Journals

1. Mahesh Mohan, Deepa, M., E.V. Ramasamy and A.P. Thomas. Accumulation of mercury and other heavy metals in edible fishes of Cochin backwaters, Southwest India. *Environmental Monitoring and Assessment*. DOI 10.1007/s10666/-011-2258-5, Springer IF (2014) 1.679
2. Dr. Mahesh Mohan, Mr. Shylesh Chandran MS and Dr. E.V. Ramasamy (2011). Vulnerable earthworm species identified from Nilgiri Biosphere Reserve (Short communication). *International Journal of Zoological Research*. Science Alert. DOI:10.3923/ijzr. ISSN - 18119778 - 18119786 SJR -0.13

B. Non-Peer Review Journals - Nil

C. E-Journals- Nil

D. Conference Proceedings-Nil

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENT STUDIES

A. Peer Review Journals

1. M S John 2011, "Identity Formation and Peace Building in Northeast India", *Gandhi Marg*, Vo. 32, No. 4.
2. M S John, 2011, "Primacy of State Building in Congo", *Peace review* (Special on Congo), Vol. 22, No. 2, pp.154-60, Taylor & Francis ISSN - 14699982 SJR - 0.13
3. M S John, 2011, "Remorse and Forgiveness in Politics", *Journal of Social Sciences*, 26 (1), pp.1-18. ISSN 1549 - 3657 (Print) 1558 - 6987 (Online)
4. Nirmala Devi, 2011, "Sreenarayana Guru's Ideas on Absolute", *Prabudha Bharatha*, Vol. 116, No. 6, June
5. Nirmala devi, 2011, "Peace Education: A Gandhian Perspective", *Pedagogics*, Vo. 9, No. 1.
6. Nisha V Nair 2011, "Participatory Planning and Gender Mainstreaming : Case Study of a Village Panchayat in Kerala", *Gandhi Marg*, Vol. 33, No. 2, July-September
7. Nisha V Nair 2011, "Women Component Plan: A study of a Village Panchayat in Kerala", *Aureole*, Vol. 2 & 3, December

B. Non-Peer Review Journals - Nil

C. E-Journals- Nil

D. Conference Proceedings-Nil

SCHOOL OF INDIAN LEGAL THOUGHT

A. Peer Review Journals

1. Dr. M. George Joseph, Assistant Professor, 'ADR Technique to Reduce Arrears of Cases and to Enhance Access to Justice- An Overview of Indian Scenario'. (*Legal Opus issue No.6, 2011*), P. 89-94.
2. Dr. M. George Joseph. 'Protection of Minority Rights-Its Constitutional Philosophy, Emerging Trends and New Challenges.' (*Kerala University Journal of Legal Studies Vol.4 (2011)*), P. 123-142.
3. Dr. Sheeba Pillai, Assistant Professor, 'Right to Education and International Law-Defining the Right' in the GNLU Law Review, Vol 3, Issue 2, April 2012.
4. Gigi. P.V. Assistant Professor, 'Protection of Rights of Children under Local Self Government Legislation' in the Journal of School of Indian Legal Thought (ISSN 2249-9989 (Print), Volume. 7)
5. Rajeesh A.P., Assistant Professor 'Contempt of Court and Constitution of India.', Journal of School of Indian Legal Thought (ISSN 2249-9989) (Print0, Volume.7.,2011)

6. Sunil Kumar Cyriac, Assistant Professor, 'Right of Private Defence: Need for Reconstruction', Journal of School of Indian Legal thought (ISSN 2249-9989 , (Print0). Volume. 7

B. Non-Peer Review Journals – Nil

C. E-Journals- Nil.

D. Conference Proceedings-Nil

SCHOOL OF INTERNATIONAL RELATIONS AND POLITICS

A. Peer Review Journals

1. A.M.Thomas "The Armenian Genocide Revisited: Probing the Extent of Turkish Involvement," South Asian Journal of Diplomacy 2011(Kottayam).
2. Bijulal M.V, "Under The Heat of Knowledge Trees: Unlearning/s From Memory and History of Two Dalit Struggles In India" International Journal of Social and Economic Research.Year : 2011, Volume : 1, Issue : 2
3. Bijulal M.V," Migrant Work and Human Rights in the GCC Countries: Emerging Scenario After Migrant Labour Unrest," in Anwar Alam (ed.) West Asia Politics and Development, New Century Publications, New Delhi 2011).
4. C Vinodan, (2011), The Rise of Asia and China's New Energy Policy, South Asian Journal of Diplomacy, Vol. 2, No. 2.
5. C.Vinodan (2011), Terrorism and Nuclear Security South Asia: The Case of Pakistan, International Journal of South Asian Studies, Vol. 4, No. 2. ISSN 1026 – 678, E ISSN 2309-4575
6. C.Vinodan, Shibu M. George (2011), Renewable Energy Development in India, Journal of Parliamentary Studies, Vol.2, Issue 1. ISSN 0022-0043
7. Chengra Land Struggle: Politics of Dalit Assertion in Kerala by *Bijulal M.V.* and Kamal K. Mishra; Indian Social Institute, New Delhi, 2012.
8. Girish Kumar R. "India and WTO Jurisprudence: Scope of Distributive Justice", South Asian Journal of Diplomacy, Vol.2, 2011 ISSN 0971-2550(1991)
9. Girish Kumar R. How effective is the Participation of Developing Nations in the WTO Dispute Settlement Mechanism: A Statistical Analysis, C-TDG Development & Governance Issue Paper 05, June 2011.
10. Girish Kumar R. South-South Strategy to address Common Challenges in Intellectual Property: A Study of South Asia, ISDA Journal: Studies in Development and Administration, 21 (4) 2011, pp. 305-322
11. K.M. Seethi "Endosulfan: Endgames in Geneva and New Delhi," Countercurrents, 24 April 2011.
12. K.M. Seethi "Obama's Hot Feeler Triggers More Confusion," Countercurrents, 21 May 2011.
13. K.M. Seethi "Social Sciences in Transition: Value-Rationality beyond Rigid Boundaries," Social Science Perspectives, March-June 2011.

14. K.M. Seethi "The Perils of Endosulfan," Economic Times, 26 April 2011.
15. K.M. Seethi, "China's 'Peaceful Rise' in the New Millennium," Indian Journal of Politics and International Relations, Vol. 4, No.1& 2, January-December 2011. ISSN 0973-5011
16. K.M. Seethi, "Sufism and the Contemporary Challenges of Islam in South Asia," South Asian Journal of Diplomacy, 1(1) 2011. ISSN 2229-3361

B. Non-Peer Review Journals - Nil

C. E-Journals- Nil.

D. Conference Proceedings-Nil

SCHOOL OF PURE AND APPLIED PHYSICS

A. Peer Review Journals

1. Prathiba Vasudevan, Sunil Thomas, P.R.Biju,, C.Sudarsanakumar and N.V.Unnikrishnan, Fluorescence Synthesis and structural characterization of sol-gel derived Titania/Poly(vinyl pyrrolidone) nanocomposites. J.Sol.Gel.Sci.Techol 62 (1), (2012) 41. 2014 If (1.532)
2. S.G.Bubbly, S.B.Gudennavar, D.Viswam and C.Sudarsanakumar, J. Crystal Structures of 1,7-Bis(furyl)-4-(1,3-dithiolan-2-ylidene)-1,6-heptadiene-3, 5-dione and 1,7-bis(thienyl)-4-(1,3-dithiolan 2-ylidene)-1,6-heptadiene-3,5-dione. Chem Crystallogr.41(9)(2011) 1310. 2014 If (0.503)
3. R. Pragash, N.V.Unnikrishnan and C.Sudarsanakumar. Spectroscopic properties of Er³⁺ doped Cerium oxalate crystals., Pramana 77(6) (2011) 1119. IF (0.649)
4. Pragash, R, Jose G, Unnikrishnan N V, Sudarsanakumar C., Energy transfer and thermal studies of Pr³⁺ doped cerium oxalate crystals.,Bull. Mater. Sci. 34, No.4 (2011) 955-961. IF (1.017)
5. Prathiba Vasudevan, Karthika, S, Cyriac Joseph, C.Sudarsanakumar and N.V.Unnikrishnan, Synthesis of pure anatase TiO₂ nanocrystals in SiO₂ host and the determination of crystal planes by Image,J. Mater. Letts 65(2011), 664 If (2.489)
6. M.K.Varghese, N.V.Unnikrishnan and C.Sudarsanakumar, Molecular dynamics simulations and binding free energy analysis of DNA-minor groove complexes with curcumin, Journal of Molecular Modeling (2011) IF (1.736)
7. S.G.Bubbly, S.B.gudennavar, D.Viswam and C.Sudarsanakumar, J.. Synthesis and Crystal Structure of 1,7-Bis(4-methoxyphenyl)-4-(1,3-dithiolan-2-ylidene)-1,6-heptadiene-3,5-dione.,Chem Crystallogr.41(2) (2011) 175-179. IF (1.503)
8. Indulekha, K.; Ambili, K; Jog, C. J . Gas dynamical friction on prestellar clumps and open clusters, 2012 ASInC 4 125
9. Devasia, Jincy; James, Marykutty; Paul, Biswajit; Indulekha, Kavila . Timing and spectral studies of the transient X-ray pulsar GX 304-1 during an outburst. 2011 MNRAS 417 318
10. Devasia, Jincy; James, Marykutty; Paul, Biswajit; Indulekha, Kavila. RXTE-PCA observations of 1A 1118-61: timing and spectral studies during an outburst. 2011 MNRAS 414 1023

11. James, Marykutty; Paul, Biswajit; Devasia, Jincy; Indulekha, Kavila. Flares, broadening of the pulse-frequency peak and quasi-periodic oscillations in the transient X-ray pulsar 4U 1901+03 . 2011 MNRAS 410 1489. IF (4.734)
12. Srinivasarao Yaragalla et.al. Effect of Reinforcement on the Barrier and Dielectric Properties of Epoxidized Natural Rubber–Graphene Nanocomposites. accepted for publication in Polymer Engineering and Science. DOI 10.1002/pen.24131 IF (1.52)
13. Srinivasarao Yaragalla et.al. Fabrication of Graphite-Graphene- Ionic liquid Modified Carbon nanotubes filled Natural rubber thin Films for Microwave and Energy storage Applications, , accepted for publication in Journal of Polymer research IF (1.920)
14. Srinivasarao Yaragalla et.al. Preparation of Epoxy Graphene and Its Structural and Optical Properties, , accepted for publication in Advanced Materials Letters IF (1.90)
15. Rana Sahaa, AjmalaShireena, A.K. Bera , Sharmila N. Shirodkar , Y. Sundarayyaa, NandakumarKalarikkal , S.M. Yusuf , Umesh V. Waghmare, A. Sundaresana, C.N.R Rao. Structure and magnetic properties of the $Al_{1-x}Ga_xFeO_3$ family of oxides: A combined experimental and theoretical study, Journal of Solid State Chemistry, Vol. 184, Issue 3, 494 (2011). IF (2.133)
16. Seema, R.; Nandakumar, K. A New Synthetic Pathway of Sr_2CeO_4 Blue-White Phosphor and its Characterization, Journal of Luminescence, 31, Issue 10, 2181 (2011). IF (2.719)
17. J. Nuja, C. S. SuchandSandeep, Philip Reji, K.Nandakumar . Nonlinear optical properties of nanosized rare earth doped strontium barium niobate ceramics, Spectroscopy Letters, 44, 334 (2011). IF (0.852)
18. R.Seema, C.S SuchandSandeep, Philip Reji, K. Nandakumar, J . An open aperture z-scan study of Sr_2CeO_4 blue phosphor. Alloys and Compounds, 509, 34, 8573-8576 (2011). IF (2.716)
19. Jeevan Job Thomas, NandakumarKalarikkal. Mossbauer Study of Ni, Ni-Co and Co Ferrite Nanoparticles, American Institute of Physics Conference Proceedings, Vol. 1349, 1175-1176 (2011). SJR -0.15
20. R. Seema, C. S. Sandeep, Philip Reji,, Nandakumar Kalarikkal. Luminescence and Optical Limiting Properties of Sr_2CeO_4 Blue Emitter, American Institute of Physics Conference Proceedings, Vol. 1349, 1273-1274 (2011). SJR -0.15
21. Shiji Krishnan, C. S. Sandeep, Philip Reji,, Nandakumar Kalarikkal. The Open Aperture Z-Scan Studies on Biferroic $YCrO_3$. American Institute of Physics Conference Proceedings, Vol. 1349, 1277-1278 (2011). SJR 0.15
22. Emilie Bouthegourd, Rajisha K. R, Sabu Thomas, Nandakumar Kalarikkal. Natural rubber latex/potato starch nanocrystal nanocomposites: correlation of morphological/ electrical properties. Jean Marc Saiter, Materials Letters, 65, 3615–3617 (2011). IF (2.466)
23. B. Raneesh, I. Rejeena, P.U. Rehana, P. Radhakrishnan, A. Saha, N. Kalarikkal. Nonlinear optical absorption studies of sol - gel derived Yttrium Iron Garnet ($Y_3Fe_5O_{12}$) nanoparticles by Z-scan technique, Ceramics International, 38, 1823 (2012). IF (1.789)
24. J.Nuja, R.Seema, N. Kalarikkal. Structural and Photoluminescence studies on nanosized Samarium doped Strontium Barium Niobate ceramics. Spectroscopy Letters, 45, 184 (2012).IF (0.852)
25. Shiji Krishnan, C. S. Suchand Sandeep, Philip Reji, K.Nandakumar. Two-photon assisted excited state absorption in multiferroic $YCrO_3$ nanoparticles. J. Chem. Phys. Lett., 529, 59 (2012). IF (1.963)

26. Venugopal Chandu • E. Savithri Devi • R. Jayapal • George Samuel • S. Antony, G. Renuka. The influence of negatively charged heavy ions on the kinetic Alfvén wave in a cometary environment: *Astrophys Space Sci.*; DOI 10.1007/s10509-011-0970-9; December, 2011. IF (2.263)
27. P Vasudevan, S Thomas, S Karthika, PR Biju, C Joseph, NV Unnikrishnan. Fluorescence enhancement in Sm³⁺/TiO₂ nanocrystallites doped PVP matrix., *Journal of Optics* 40 (3), 96-100. IF (2.010)
28. V Prathibha, S Karthika, J Cyriac, C Sudarasanakumar, NV Unnikrishnan. Synthesis of pure anatase TiO₂ nanocrystals in SiO₂ host and the determination of crystal planes by ImageJ, *Materials Letters* 65 (4), 664-666. IF (2.466)
29. Prathibha Vasudevan, Sunil Thomas, S. Karthika, P. R. Biju, Cyriac Joseph & N. V. Unnikrishnan, Fluorescence enhancement in Sm³⁺/TiO₂ nanocrystallites doped PVP matrix. *J Opt* 40 : 96–100 (2011) IF (2.059)
30. Prathibha Vasudevan, Arun Kumar K.V, Sunil Thomas, Biju P.R & Unnikrishnan N.V, RGB Emission From RE Ions Doped Titania/PVP Hybrid Matrix, *AIP Conf. Proc.* 1391, 661 (2011) SJR (0.25)
31. Prathibha Vasudevan, Sunil Thomas, Biju P.R, Sudarsanakumar C and Unnikrishnan N.V, Synthesis and structural characterizations of sol gel derived titania/ poly(vinyl pyrrolidone) hybrids, *J.Sol gel Sci. Tech.* 62: 41-46(2012). IF (1.532)

B. Non-Peer Review Journals - Nil

C. E-Journals- Nil.

D. Conference Proceedings-Nil

International and Inter University Centre for Nanoscience and Nanotechnology

No	Title of Paper	Author	Journal and Details	Impact Factor	Source of Impact factor
1	Structure and magnetic properties of the Al _{1-x} Ga _x FeO ₃ family of oxides: A combined experimental and theoretical study,	Rana Sahaa, Ajmala Shireena, A.K. Bera, Sharmila N. Shirodkar, Y. Sundarayya, Nandakumar Kalarikkal, S.M. Yusuf, Umesh V. Waghmare, A. Sundaresana, C.N.R Rao	<i>Journal of Solid State Chemistry</i> , Vol. 184, Issue 3, 494 (2011).	2.133	http://www.journals.sevier.com/journal-of-solid-state-chemistry/
2	A New Synthetic Pathway of Sr ₂ CeO ₄ Blue-White Phosphor and its Characterization,	Seema, R.; Nandakumar, K.	<i>Journal of Luminescence</i> , 31, Issue 10, 2181 (2011).	2.719	http://www.journals.sevier.com/journal-of-luminescence/

3	Nonlinear optical properties of nanosized rare earth doped strontium barium niobate ceramics,	J. Nuja, C. S. SuchandSandeep, Philip Reji, K.Nandakumar,	Spectroscopy Letters, 44, 334 (2011).	0.852	http://www.tandfonline.com/toc/lstl20/current
4	An open aperture z-scan study of Sr ₂ CeO ₄ blue phosphor	R.Seema, C.S SuchandSandeep, Philip Reji, K. Nandakumar	<i>J. Alloys and Compounds</i> , 509, 34, 8573-8576 (2011).	2.999	http://www.journals.elsevier.com/journal-of-alloys-and-compounds/
5	Mossbauer Study of Ni, Ni-Co and Co Ferrite Nanoparticles	Jeevan Job Thomas, NandakumarKalarikkal	American Institute of Physics Conference Proceedings , Vol. 1349, 1175-1176 (2011).	Nil	-
6	Luminescence and Optical Limiting Properties of Sr ₂ CeO ₄ Blue Emitter	R. Seema, C. S. Sandeep, Philip Reji, Nandakumar Kalarikkal,	American Institute of Physics Conference Proceedings , Vol. 1349, 1273-1274 (2011).	Nil	
7	The Open Aperture Z-Scan Studies on Biferroic YCrO ₃	Shiji Krishnan, C. S. Sandeep, Philip Reji,, Nandakumar Kalarikkal	American Institute of Physics Conference Proceedings , Vol. 1349, 1277-1278 (2011).	Nil	
8	Natural rubber latex/potato starch nanocrystal nanocomposites: correlation of morphological/ electrical properties	Emilie Bouthegourd, Rajisha K. R, Sabu Thomas, Nandakumar Kalarikkal, Jean Marc Saiter	Materials Letters, 65, 3615-3617 (2011)	2.489	http://www.journals.elsevier.com/materials-letters/
9	Nonlinear optical absorption studies of sol - gel derived Yttrium Iron Garnet (Y ₃ Fe ₅ O ₁₂)	B. Raneesh, I. Rejeena, P.U. Rehana, P. Radhakrishnan, A. Saha, N. Kalarikkal,	Ceramics International, 38, 1823 (2012)	2.605	http://www.journals.elsevier.com/ceramics-international/

	nanoparticles by Z-scan technique				
10	Structural and Photoluminescence studies on nanosized Samarium doped Strontium Barium Niobate ceramics	J.Nuja, R.Seema, N. Kalarikkal	Spectroscopy Letters, 45, 184 (2012)	0.852	http://www.tandfonline.com/toc/lstl20/current
11	Two-photon assisted excited state absorption in multiferroic YCrO3 nanoparticles	Shiji Krishna, C. S. Suchand Sandeep, Philip Reji, K.Nandakumar	J. Chem. Phys. Lett., 529, 59 (2012)	1.897	http://www.journals.elsevier.com/chemical-physics-letters/
12	Nonlinear optical absorption studies of sol - gel derived Yttrium Iron Garnet (Y3Fe5O12) nanoparticles by Z-scan technique	B. Raneesh, I. Rejeena, P.U. Rehana, P. Radhakrishnan, A. Saha, N. Kalarikkal,	Ceramics International, 38, 1823 (2012)	2.605	http://www.journals.elsevier.com/ceramics-international/
13	Structural and Photoluminescence studies on nanosized Samarium doped Strontium Barium Niobate ceramics	J.Nuja, R.Seema, N. Kalarikkal	Spectroscopy Letters, 45, 184 (2012)	0.852	http://www.tandfonline.com/toc/lstl20/current
14	Two-photon assisted excited state absorption in multiferroic YCrO3 nanoparticles	Shiji Krishna, C. S. Suchand Sandeep, Philip Reji, K.Nandakumar	J. Chem. Phys. Lett., 529, 59 (2012)	1.897	http://www.journals.elsevier.com/chemical-physics-letters/
15	A comparative study on the optical limiting properties of different nano spinel ferrites with Z-scan technique,	Jeevan Job Thomas, Shiji Krishnan, K. Sridharan, Reji Philip, Nandakumar Kalarikkal,	Materials Research Bulletin, Volume 47, Issue 8, August 2012, Pages 1855-1860	2.288	http://www.journals.elsevier.com/materials-research-bulletin/

3.7 (a) No of Books Published

Author/Editor	Title	Discipline	Publisher	ISBN No.
RESHMA JOHN, RASHMI P.A, AND LINU MATHEW	Biological Effects of Ecdysteroids and Their Non Steroidal Agonist Bisacylhydrazines- A Review	Biotechnology	Studium Press LLC, USA	
R Vijayakumar,	Computing and Communication	IT	Narosa Publications, New Delhi	ISBN 978-81- 8487-178-4
Nirmala Devi	Concept of Nature in Indian Thought		Jawahar Pusthakalaya	

3.7 (b) Chapters in edited books

Author	Title of the chapter	Title of the book	Publisher	ISBN No.
Jayachandran.K.Indu C Nair, Sabu,A, Swapna,T,S	Fermentation of Food processing byproducts	Valourization of food processing byproducts	Taylor and Francis	ISBN 978- 81- 920782- 0- 5
M S John	Gandhi and Environmentalism	Best of Terragreen	Teri Press	
Nirmala Devi	Tagore on Nature: Some Philosophical Considerations	Rabindranath Tagore: A Retrospection	Aadi Publications	
Sandhya R S	An Exposition of Tagore's 'Educare' in the light of Western and Indian Educational Philosophies in Gopichand and P Nagapusheela (eds.)	Rabindranath Tagore: A Retrospection	Aadi Publications	

3.8 No. of University Departments receiving funds from

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

3.9 For colleges

Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

Rs. 1,50,000/-

3.11 No. of conferences organized by the Institution

Convener	Title	Level
Dr A Pradeep kumar	Disaster Risk Vulnerability Conference 13 th -15 th March 2011	National Conference
Prof. (Dr) R Vijayakumar	National Seminar on Computational Intelligence, Robotics and Autonomous System 3 rd January 2012	National Seminar
Prof. (Dr) R Vijayakumar	Interface 2011, a National level IT Fest	National Seminar
Prof. (Dr) R Vijayakumar	National Conference of Computing and Communication 26 th May 2011	National Seminar
Ms Renju S Kartha	Seminar on Research Methodology 3 rd - 12 th May 2011	State Level Conference
Prof. (Dr) R Vijayakumar	Digital Image Processing 7 th April 2011	State Level Conference
Prof. (Dr) R Vijayakumar	Workshop on Teaching Learning Process for Teachers, Research Scholars and Students of School of Computer Science	State Level Conference
Prof. (Dr) R Vijayakumar	One day workshop on Teaching Learning Process 06 th April 2011	State Level Conference
Prof (Dr) Sabu Thomas	First International conference on Composites and Nanocomposites (ICNC 2011) January 7-9, 2011	International Conference
Prof (Dr) Sabu Thomas	Second International Conference on Recycling and Reuse of Materials (ICRM 2011) August 5-7, 2011	International Conference
Prof (Dr) Sabu Thomas	First International Conference on Plasma Processing of Organic Materials and Polymers (PPOMP 2011) November 25-27, 2011	International Conference
Prof (Dr) Sabu Thomas	Third International Multi component Polymer Conference (IMPC 2012) March 23-25, 2012	International Conference
Prof (Dr) Sabu Thomas	First Indo-US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31 st March – 2 nd April 2012	International Conference
Dr. M S John	Gender and Development 15 th – 17 th March 2011 UGC SAP	National Seminar

Dr Raju Thadikkaran	Rise of China Implications for the rest of the world 28 th July 2011	Workshop
Dr. K M Seethi	Indo US defence Cooperation after the nuclear deal 24 th Aug 2011	Workshop
Dr. K M Seethi	Diaspora and Indian Development – A perspective from Australia and Newzealand 15 th Sept 2011	Workshop
Dr. K M Seethi	The International labour organisation and India –The Past, present and the future 29 th Sept 2011	Workshop
Dr. K M Seethi	Arab’s Spring 31 st October 2011	Workshop
Dr K M Seethi	Global Private Higher Education – Comparative perspective on India and public policy 14 th Nov 2011	Workshop
Dr K M Seethi	Experiences of Kerala Development Model 17 th Nov 2011	Workshop
Dr K M Seethi	Higher education in Australia-Opportunities for academic exchange 28 th Nov 2011	Workshop
Dr K M Seethi	China and emerging world order – is peaceful rise possible? 23 rd Dec 2011	Workshop
Dr Sabukkuttan	National Seminar on Healthy Life Style 29 th -30 th March 2011	National Seminar
Dr Sabukkuttan	Seminar on Organic Farming 12 th march 2011	Workshop
Dr Sabukkuttan	Workshop on Goal Setting 19 th May 2011	Workshop
Dr A Sudharma	State Level Workshop on finalisation of the profuse pathways of M Ed CBCSS curriculum 27 th Jan 2011	Workshop
Dr A Sudharma	One day Seminar on learning disability “know your child” 3 rd Aug 2011	Seminar
Dr A Sudharma	Towards synthesising styles of multimethodes research 29 th June 2011	Seminar
Dr A Sudharma	Right to education and the Kerala context 11 th Aug 2011	Seminar
Dr A Sudharma	Total teacher transformation 13 th Oct 2011	Workshop
Dr A Sudharma	Teachers and social justice building 11 th Nov 2011	Workshop
Dr A Sudharma	Preparation of a package for qualitative upgradation of teacher education programme 27 th Sept 2011	Workshop
Dr A Sudharma	Recent trends in pedagogical practices 17 th to 18 th Feb	National

	2011	Seminar
Dr A Sudharma	Effluent innovative mindset for knowledge generation and sharing in the pulsars of quality learning 25 th -26 th March 2011	National Seminar
Dr A Sudharma	Spiritual Intelligence –A paradigm for holistic development among learners	National Seminar

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

SCHOOL OF BIO-SCIENCE

Faculty

Programmes associated

- Dr.J.G.Ray : UGC Expert Committee in Botany for the award of Major Research Projects to Teachers/Researchers
- Refresher Course for College/University Teachers – organized by University of Kerala, Mahatma /Gandhi University and Calicut University
- Refresher Course for School Teachers – organized by SERTC
- UGC NET Coaching for Postgraduate Students – Bioscience and Environment Science – organized by Mahatma Gandhi University, Sri Sankara University, Kalady
- Dr.Anie Y : Member, Board of Examiners, IV semester M.Sc Biochemistry Examinations, April/May 2011, MG University.
- Member, Board of Question paper setters, I semester B.Sc career related course, 2011, University of Kerala.
- Chairperson, Board of Examiners, III semester M.Sc Biochemistry Examinations, 2011, MG University.
- Member, Board of Question paper setters, B.Sc restructured Examinations, April/May 2012, University of Kerala.
- Dr.Keerthi T.R : Convener expert committee of both B.Sc., and M.Sc.,CSS Biotechnology Programme, Mahatma Gandhi University
- Member, Board of Studies, (Microbiology) Calicut University
- Member, Board of Studies, (Biosciences), Mahatma Gandhi University.
- Member Doctoral Committee of PhD program in Biosciences/Botany/Zoology and Pharmacy.
- Chairman IVth semester M.Sc., Micobiology Examination-Mahatma Gandhi Universit Chairman Board of question paper setters (UG & PG) Biotechnology - Calicut University

Chairman Board of question paper setters, B.Sc., Biotechnology (Vocational/Restructured) programmes, Kerala University.

Member question paper setters (UG&PG) Microbiology Calicut University

Member question paper setters B.Sc., Biotechnology, Kannur University.

Member question paper setters M.Sc., Biotechnology Cochin University.

External Examiner for M.Phil&M.Tech programmes in Calicut, Cochin & Kerala University

Warden, Ladies Hostel, Mahatma Gandhi University.

Member, Antiharrasment Cell Mahatma Gandhi University.

Member Institutional Ethical Committee, Mahatma Gandhi University.

Member, SC/ST monitoring cell Mahatma Gandhi University

Dr. Radhakrishnan E.K : At the "PHARMACHEM" - the Scientific Seminar organized by Department of Pharmaceutical Sciences, Mahatma Gandhi University, on 24th February, 2011.

At the "International Symposium on Genomics of Crops, Medicinal Plants and Microbes" organized by Department of Botany, University of Kerala on May 29-31, 2011.

At the "BIOCELEST" seminar organized by Mar Augusthinose College, Pala on Sep 23, 2011.

At the "National Conference on Biodiversity" organized by All Saints College, Thiruvananthapuram, Kerala, on Sep 28-29, 2011.

At the "National Conference on Bioprospecting of Plant Genetic Resources of Western Ghats" organized by St. Thomas College, Pala on Nov 22-23, 2011.

At the "National Conference on Computing Paradigms and Bioinformatics (CPBI 2012)" organized by School of Computer Sciences, Mahatma Gandhi University, on 17-18 January, 2012.

At the "National Conference on Biodiversity" organized by Govt. Brennen College, Dhramadom, Kannur on March 9, 2012.

SCHOOL OF COMPUTER SCIENCES

Faculty	Programmes associated
Prof. (Dr.) R. Vijayakumar	<p>: Organized and served as the resource person of Workshop on “Teaching Learning Process”, at School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011.</p> <p>Member of organising committee, Interface 2011, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School.</p>
Ms. Bindu V.R.	<p>: Chairperson, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala.</p> <p>Member of organising committee, Interface 2011, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School.</p>
Ms. Pushpalatha K.P.	<p>: Member, Board of Studies, School Of Computer Sciences.</p> <p>Member of Board of Studies, Computer Science & Applications, Mahatma Gandhi University, Kottayam.</p> <p>Paper Setter, Calicut University, Calicut and Mahatma Gandhi University, Kottayam and CUSAT Cochin.</p> <p>Member of organising committee, Interface 2011, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School.</p> <p>Expert member for the committee for course affiliation to colleges of MGU.</p>
Ms. Anuj Mohamed	<p>: Member, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala.</p> <p>Member, Board of Studies in Computer Science (Pass) University of Kerala, Thiruvananthapuram.</p> <p>Member, Board of Studies in Computer Science, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala.</p> <p>Convenor, Anti Harassment Cell, Mahatma Gandhi University, Kottayam, Kerala.</p> <p>MCA Project Evaluator, Indira Gandhi National Open University (IGNOU), Regional Centre, Cochin</p> <p>Member of organising committee, Interface 2011, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School.</p> <p>Expert member for the committee for course affiliation to colleges of MGU.</p>

3.13 Details of collaborations

Faculty/Coordinator of the program	Collaborating Institution	Type of collaboration	Other details
School of International Relations and Politics	Institute of Political Studies (IEP) of Rennes, France	International	International
	Institute of Chindian Studies, Jinan University, China	International	International
	School of International relations and Politics and Earlham College (EC), a liberal arts college in Richmond, Indiana, U.S.A.	International	International
	Po Bordeaux (IEP), FRANCE	International	International
	Department of Strategic and Regional Studies, University of Jammu, Jammu	National	National
	Sahitya Akademi, New Delhi	National	National
	Bucknell University, Lewisburg, Pennsylvania, USA	International	International

3.16 Details of patents

Patent number : 638/DEL/2015

Patent name : A polymer Nanocomposite, Process And Application there of Application

Contributors : Mohammed Arif P
Sabu Thomas
Nandakumar Kalarikkal

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

Name	Designation	School	Details of awards/recognition
Dr. M S Jisha	Faculty	SBS	Best poster ward. 23 rd Kerala Science Congress
Dr. George Joseph	Faculty	SILT	Seveanarethnam Puraskaram for remarkable contribution in legal education
Dr. Nandakumar Kalarikkal	Faculty	SPAP	2 nd best poster award. Contributing author. 2 nd international conference on Nanomaterials: Synthesis, Characterisation and application

Dr. P Sanal Mohan	Faculty	SSS	Postdoctoral Visiting Fellow Max Planck Institute for the Study of Religious and Ethnic Diversity, Gottingen, Germany. Fellow, Social Sciences Research Council New York in the Programme of New Directions in the Study of Prayers. Visiting Faculty Associate, Centre for the Advanced Study of India, University of Pennsylvania
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3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

SCHOOL OF BEHAVIOURAL SCIENCES

Life skill education for adolescents , Early identification and interventions for childhood disorders, Counseling services for parents and children , Mental Health Programmes , Sensitization and awareness programmes on drug addicts and alcoholism.

SCHOOL OF BIOSCIENCES

The extension activities of the school are being organized by the Bioscience Forum, the organization of the students, teachers and staff of the school.

- Celebrated green campus day by cleaning the school campus on November 15, 2011.
- Organized a stall during the IMBOFA- 2011 conducted by University.
- Ade a visit and spent one day at Navajeevan the orphanage for mentally retarded people at Arpookara , Kottayam on 21st December 2011.
- Exhibition of the various research activities of the school in the exhibition organized by KSCSTE during Kerala Science Congress held at RRI Kottayam on January 29th to 31st 2012

SCHOOL OF CHEMICAL SCIENCES

- Instrumentation facility
- Financial support to deserving students
- Blood donation

SCHOOL OF ENVIRONMENTAL SCIENCES

- 1) The School 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, the school envisages to adopt small villages with an objective for providing basic amenities like drinking water and sanitation. As a part of this programme the has installed one community rainwater harvesting structure with a capacity of 1.1 lakh liters and 7 ten thousand litre capacity harvesting tanks at Achinakam village in Vechoor Grama Panchayath in Kuttanadu Region. Construction of additional rainwater harvesting tanks is in progress.
- 2) The school has observed days of National and International significance effectively with financial support from external funding agencies. The following days have been observed at the school during 2011.
- 3) The National Science Day - 2011 was celebrated by arranging two session on February 28th 2011. Dr. Sivasankara Pillai , Retd. Proffessor , CUSAT has given a talk on “ Chemistry in everyday life “ in the morning session, students from selected school and other depots attended this session. In the afternoon, students from selected schools presented their extracurricular through various clubs such as Nature club and Science club. Also they have participated in Science Quiz.
- 4) World water Day – 2011

The school celebrated World water Day with the following programmes

- Poster Exhibition : About 50 posters drawn by the students of the school were displayed at the Ashtadalam
- Cleaning the Swasakosam (Lungs of the campus)
- Students and teachers of the school have undertaken a thorough cleaning programme at the Swasakosam (Lungs of Campus). About 12 sacks full of plastic bottles , cups, and carry bags were collected. The school has installed two trash bins marked exclusively for ‘Plastic waste only’ on the pavement.
- A short skit on “Environmental degradation” : A short skit was staged by the students on environmental degradation

5) World Environment Day (WED) – 2011

The school celebrated World Environment Day on June 05, 2011. The school's first day celebration was focused on launching of a massive afforestation project Eco restoration of natural vegetation in the 'Nalpathimala water shed area of the campus.

Based a memorandum submitted to Hon'ble Vice Chancellor by the students and faculty members of the school through CLENS (Club of Environmental Science Club – a forum in which all students and faculty and staff are members) during WED – 2011, a UD has been issued to ban the use of plastics in the campus in a phased manner, as the first phase , the use of flex banners inside MG University campus has been officially banned.

The second day programme on June 06 – 2011 included an invited lecture on 'Endosulphan : What happened in Geneva ?' by Sri C. Jayakumar (Director, Thanal) who participated in Geneva Convention 2011.

SCHOOL OF GANDHIAN THOUGHT AND DEVELOPMENTAL STUDIES

- Hosted a stall in the INBOFA organized by the University , highlighting the school's activities and Gandhian Literature and displaying Charkka.
- Hosted a stall in the international book fair hosted by the MG University with Gandhian books , Swadeshi products and Khadi.
- Further extension activities take place every weekend as part of compulsory field work of MA Curriculum with students visiting NGO's , Panchayath, Medical College etc. The school also has a Gandhi Forum under whose aegis many activities were organized.

SCHOOL OF INDIAN LEGAL THOUGHT

Conducted two day National Seminar, Dr. Ambedkar Memorial Annual Lecture, National Moot Court competition organized by SILT, and also Legal Literacy Camps in different Kudumbasree Units in Kumaranalloor Panchayath Kottayam District.

SCHOOL OF MANAGEMENT AND BUSINESS STUDIES

- A. 'SUDHINAM': EDP INITIATIVES IN VILLAGE: MBA students and teachers would give training to those who are interested to enrich their life as entrepreneur. The main objective behind this kind of training is to awake them about the relevance of business and its opportunities. It helps to motivate, inspire and build capacity

for establishing an enterprise and to impart knowledge on the concept of entrepreneurship, its challenges and prospects.

- B. "SANADYAUNAM": Consultant to self help group (Kudumbasree, Janasree) in Athirampuzha Panchayath and study the entrepreneurial activities initiated by them and giving necessary advice and training to enhance their business interventions.
- C. "SOUHRIDA": Hands own Experience - living with a village programme which provides our students an unparalleled living experience where you'll make life-long friends and immerse yourself in the community.

SCHOOL OF PHYSICAL EDUCATION AND SPORTS SCIENCE

Sports Academy for School students

SCHOOL OF PURE AND APPLIED PHYSICS

The school has conducted INSPIRE and INCULCATE Programmes in association with Government of Kerala for school children. The faculty members of the school also Accommodates students of MSc. and MTech. from affiliated institutions of Mahatma Gandhi University in particular and other institutions in Kerala and other states. Faculty members also deliver invited talks on a regular basis in Colleges and Universities.

SCHOOL OF SOCIAL SCIENCES

Conceiving ABILITY project for physically challenged students and researchers. The broad objectives identified as follows.

- A. To establish 'ABILITY' AN INTEGRAL ENABLING UNIT in the school of Social Sciences, Mahatma Gandhi university to address the different academic requirements of physically challenged students and researchers (including hearing and visually impaired and persons with motor disabilities) of all teaching and research schools/ departments of Mahatma Gandhi University, and to the best extent possible, for students and teachers with disabilities of neighboring Colleges.
- B. To extend 'ABILITY ' AS A RESOURCE – BUILDING, TRAINING AND DISSEMINATION INSTITUTION for physically challenged , especially visually impaired students and researchers of Humanities and Social Sciences across India , through training sessions, workshops and camps and by creating and sharing a substantive collection

of audio files of important texts of Humanities and Social Sciences and by publishing 'ABILITY' AN AUDIO JOURNAL OF HUMANITIES AND SOCIAL SCIENCES RESEARCH

- C. To develop the School of Social Science , Mahatma Gandhi University as a role model Institution of "EQUAL ACCESS ACADEMIC ENVIRONMENT" in higher Education and research and as capable of assisting other institutions desirous of attaining this objective.

SCHOOL OF TOURISM STUDIES

Students in four groups under took a project on barriers free tourism in Alappuzha and Kumarakom in collaboration with the local tourism / leisure industry Suppliers which enabled the students and Department to analyze the imperative needs of the field concerned. Faculty members engaged in dissemination of knowledge by handling regular columns in national newspapers and wrote 21 articles.

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

School	Activities done
School of Behavioural Sciences	: Formed anti-harassment cell, conducts orientation programmes at the time of admission of new students
School of Bio Sciences	: The school regularly conducts orientation programmes for the students to train them for UGC-CSIR examination. The alumni association is also instrumental in guiding the students in building up their academic career and future activities.
School of Chemical Sciences	: Financial, Medical and moral supports are provided to the students.
School of Distance Education	: Proper student support is provided
School of Environmental science	: Periodic meeting of the student grievance cell.
School of Gandhian thought and Developmental Studies	: Remedial coaching for weak students have been provided.

School of Indian Legal Thought : Meeting with students whenever computer services are upgraded in computer lab and in the library.

School of Management and Business Studies : Placement cell to enhance placements.
Remedial coaching for academically weak students.
Interacting with alumni for placement / Project support.

School of Pure and Applied Physics : Counseling to students on personal and academic matters are given a regular basis.
This has helped many students to avail student support services.

School of Social Sciences : Meeting with students whenever library and computer services are upgraded.

School of Tourism Studies : Tutorial, Remedial coaching, e-grant, Career Guidance and counseling , ASPIRE Scholarship

5.2 Efforts made by the institution for tracking the progression

Student grievance and anti-harassment cells are functioning. Students are provided with mobile application to lodge their complaint through mobile phone and can track the status of their grievances. They can also file their complaints/suggestions through internet. They can also approach Hon.VC & PVC at 4-6 pm every day. Keeps a record of the student opting for higher studies and maintains contacts with them. The alumni are made instrumental in tracing new and challenging opportunities. Individual teachers have been directed to keep track of the progression. They impart this through internal assessment, test paper, assignment presentation and seminars. Progress review is also made in PTA meetings.

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. Class by experts are arranged as and when required. Help of university career and information centre is utilized for advanced training.

School of Bio Sciences	:	The school regularly conducts orientation programmes for the students to train them for UGC – CSIR examination.
School of Chemical Sciences	:	UGC-CSIR/ JRF/ NET Coaching
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 Management and Business Studies	:	Aptitude Test training Placement oriented training Staff development training
School of Pure and Applied Physics	:	The school extends full support for the conduct of coaching classes for NET examination with Career Guidance Bureau. 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 Social Sciences	:	
School of Tourism Studies	:	Given general awareness for writing UGC – NET examination. Formed students groups who prepared question band.
School of Pedagogical Sciences	:	Remedial coaching for SC/ST students, coaching for UGC – NET examinations
School of Physical Education and Sports Sciences	:	Special coaching for UGC – NET examinations

5.6 Details of student counselling and career guidance

School	Activities done
School of Behavioural Sciences	: 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
School of Bio Sciences	: Separate committees have been working for student counselling and career guidance.
School of Chemical Sciences	: Meeting of students are organized to address their vision and help them to achieve this.
School of Distance Education	: 133 off- campus centers provide student counseling and career guidance.
School of Environmental Science	: Counselling and career guidance has been given to the students periodically by the faculty members.
School of Gandhian thought and Developmental Studies	: Student Counselling is provided by individual teachers during tutorial session.
School of Indian Legal Thought	: Strong placement cell for supporting placement and career guidance activities.
School of Management and Business Studies	: Student Counselling and career guidance is provided by University Career Guidance Bureau which is headed by Dr. T.V Thulasidharan, Professor, School of Pedagogical science.
School of Pure and Applied Physics	: Faculty members, as the member of each batch, give proper guidance to all students for their placement. Most of the students are provided opportunities to work in national labs for their project. Through personal contacts students have been given opportunities for research work in India and abroad.
School of Social Sciences	: 'Individual faculty to individual students "- mode of student counselling and guidance.
School of Tourism 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.

	Special lectures given by Dr.Toney K Thomas , Deputy Dean, Taylors University , Malaysia. Regular industry interaction. Career orientation and key note address by Mr.Krishnachandran , General Manager Intersight Tours and Travels, Cochin. A lecture on hospitality by Motty Mathew, owner Motty's Home stays Allepy – Special lecture by Mr. John George, Business Head India (Tour), UAE Exchange and Financial services and Mr.Joshy V Mathew First Source Ltd., Banglore.
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

5.10 Scholarships financial support details

Fellowship	Number of awardees	Amount
Post-Doc*	-	-
Junior research fellowship*	1	208922
Senior research fellowship*	3	510261
Institutional fellowship	86	265500
International/national recognitions**	69	8740000
Other fellowship*	-	-

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

*** Specify the details of recognition*