



MAHATMA GANDHI UNIVERSITY
INTERNAL QUALITY ASSURANCE CELL
PRIYADARSINI HILLS PO, KOTTAYAM, KERALA

Annual Quality Assurance
Report

[2010-11]

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)

2010-11

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 2009-10 -----

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 Men Women

Urban Rural Tribal

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

Inter University Centres established in 2010-11:

- a) Inter University Centre for Biomedical Research & Superspeciality Hospital (IUCBR& SSH)
- b) Inter University Centre for Disability Studies(IUCDS)
- c) Inter University Centre for Social Science Research & Extension (IUCSSRE)
- d) Inter University Instrumentation Centre (IUIIC)

Inter School Centres established during 2011

- a) University Centre for International Cooperation (UCIC)
- b) Institute of Contemporary Chinese Studies (ICCS)
- c) KN Raj Study Centre for Planning and Centre State Relations

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and
community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff /Students Alumni Others

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

If yes, mention the amount

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. Organised one day Seminar on “Rough Sets” at the School of Computer Sciences on 31st May 2011
- ii. Seminar on
 - (a) Why are animals/humans nice to each other?
 - (b) War and Peace : Conflict and co-operation in Insect society by Raghavendra Gadkar who is a Shanti Swaroop Bhatnagar Awardee, 1993.
- iii. Seminar on Cyber Sciences held on 17.12.2010.
- iv. Colloquim on Engaging Beyond Borders : China and India in the Asian Regions on . 23.11.2010.
- v. Organized colloquim on ‘Nuclear Question’ on the occasion of Hiroshima Day, 12.08.2010.
- vi. Lecture by Dr M.S Valliathan on the topic Ayurveda through the eyes of Modern Science on 27th August 2010.
- vii. National Seminar on Interactive Exploration toward Quantitative Research Continuum.
- viii. National Seminar on Honing Researcher’s skills through Methodological Orientation.
- ix. International Conference on National Polymers. (September 24-26, 2010)
- x. International Conference on Education for Peace, Social Inclusion and Sustainable Development towards a Paradigm shift. (December 6 – 10, 2010).e
- xi. Lecture on IR Theory and Peace Building by Dr.T.V.Paul, James McGill Professor of International Relations , McGill University ,Montreal.
- xii. Series of lectures by Jia Haitao, Jinan University who was sponsored by KSHEC as Erudite Scholar- in – Residence.
- xiii. Lecture on Cultural Relativism and Human Rights by Steven Michael Lukes, New York University.
- xiv. National Conference on Computing an Communication (NCCC 2011) organized by the School of Computer Sciences (May 26 , 2011).

2.14 Significant activities and contributions made by IQAC

- i. Introduction of Centralised Allotment Process for various PG programmes in the affiliated colleges under the University from 2010-11 academic year.
- ii. It has been decided to introduce credit semester and grading system for all PG programmes from 2012-13 academic year.Regulations in this regard have been approved by the Academic Council and the Syndicate and notifications issued.
- iii. Identifying the ecologically sensitive areas of the campus based on rich natural vegetation and biodiversity components. The area so demarcated has been named ‘Jeevaka Live laboratory’, named after Jeevaka, ancient physician of India.(5th June 2010).
- iv. Launched a Rainwater Harvesting for Humanity Poject of School of Environmental Sciences in collaboration with Brown University, USA.
- v. IQAC has conceived a programme for producing Eco friendly bags namely Jute bags,paper bags etc. to combat plastic menace.

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 are frequently updated by the respective faculty councils with the formal approval of the CSS Academic Advisory Committee. Syllabi and curriculum of the UG programmes conducted in affiliated colleges are revised periodically by the respective Board of Studies.
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 2010-2011: <ul style="list-style-type: none"> a) Inter University Centre for Biomedical Research & Superspeciality Hospital (IUCBR& SSH) b) Inter University Centre for Disability Studies(IUCDS) c) Inter University Centre for Social Science Research & Extension (IUCSSRE) d) Inter University Instrumentation Centre (IUC) e) Centre for High Performance Computing.
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 2010-2011 <ul style="list-style-type: none"> a) University Centre for International Cooperation (UCIC) b) Institute of Contemporary Chinese Studies (ICCS) c) KN Raj Study Centre for Planning and Centre State Relations
Academic and Administrative Audit	Audit conducted.
Providing basic amenities to the employees	Basic facilities provided.
To conduct one day workshop for the faculty members, alumni, students and stakeholders on various themes to be suggested by the IQAC for quality enhancement	The workshops were conducted for the faculty members, alumni, students and stakeholders
	Syndicate approves the plan and estimate for the construction of Academia Complex.

Organising seminars/workshops/symposia/academic carnivals in various Departments/Schools/Centres	Various Statutory Departments/Schools/Centres have been given financial assistance for organising seminars/workshops/symposia/academic carnivals.
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.
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.
Activities to help the disabled/differently abled sections of the society	Introduction of disabled friendly features in buildings to provide easy accessibility.
Expansion of NSS activities in the colleges affiliated to the University.	National Service Unit of the University launches programme to open NSS Units in all affiliated colleges.
Extension activities/Environment friendly activities	Celebration of International Year of Bio-diversity 2010
International Collaborations and Linkages	Collaborations exist between several departments of the University and other institutions of national/international repute.

2.16 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

Approved by Hon'ble Vice Chancellor after exercising power u/s 3.10(17) of MGU Act 1985 dated on 06.08.2016

Part – B (2010- 11)

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	38	6	1	-
MPhil	22		1	-
PG	30	2	16	-
UG	2	-	19	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	2	-	-	-
Certificate	5	-	-	-
Others	1	-	-	-
Total	100	8	37	-
Interdisciplinary	6		-	-
Innovative	6		-	-

Please see annexure 1.1

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

(ii) Pattern of programmes:

Pattern	Number of Programmes
Semester	94
Trimester	-
Annual	18

1.3 Feedback from stakeholders*

(On all aspects)

Mode of feedback:	Alumni	Yes	Parents	Yes	Employers	Yes	Students	Yes
	Online	Yes	Manual	Yes	Co-operating schools (for PEI)			Yes

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

The University is particular about updating periodically the syllabi of all the courses offered. In the process of updation inputs from all possible sources which give an insight into the latest developments in the discipline are necessarily incorporated. The objective of revision is always to make the course content comprehensive and in tune with recent developments in the subject. Thorough discussions are held in the faculty council/Board of Studies prior to effecting a change of syllabus and the relevance of each topic which is sought to be introduced is keenly debated. Curriculum development workshops are held to discuss and improve the curriculum. The courses offered in the University Departments are interdisciplinary in nature and this character of the courses is maintained and continued in any change of syllabi that is introduced.

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

- **School of Tourism Studies**

The School of Tourism Studies was established during 2010-11 as a regular statutory department of the University after receiving concurrence from the Government of Kerala. A Co-ordinator on deputation was appointed on June 22nd to initiate its functioning. After receiving the required permissions, classes for the first batch of Master of Tourism Management programme was started on December 15th 2010. The School is envisaged as a Centre of Higher Learning in the fast growing areas of Tourism and Hospitality. The School is conceived as an umbrella organization for all Tourism and Hospitality Management programmes. The School aims to develop skilled human resources in applied, technical, interpersonal, analytical and communication abilities to master in Travel Management, Accommodation Management and allied areas. The School focuses on four major areas – Tourism Studies, Hospitality Management, Cultural Studies and Foreign Languages. The School also envisages carrying out fundamental and applied interdisciplinary research in the tourism and hospitality sectors.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	97	41	27	29	163

2.2 No. of permanent faculty with Ph.D. 71

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
	20	15	7	10	4	5	36	0	67	30

2.4 No. of Guest and Visiting faculty and Temporary faculty 71 51 41

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	62	82	29
Presented papers	64	52	21
Resource Persons	19	18	25

Please see annexure 2.5

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

The University has a learner friendly need based teaching and learning system to equip the students with scholastic skills in the emergent areas of their respective disciplines. Class room lectures continue to be the essential pre requisite for imparting knowledge and periodic seminars, group interfaces etc. Provide the necessary intellectual climate for learning and research. The students are introduced to a variety of academic interfaces through which individual as well as group performances are constantly monitored and assessed.

Use of Audio Visual Aids like LCD Projectors, Speakers, portable mikes etc. augment the teaching tools to enrich the learning experience of the students.

Please see annexure 2.6

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

173

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, Online Internal exam, Open Book Examination, Machine interface exam for the qualitative improvement of listening skills of students

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

54 33 34

2.10 Average percentage of attendance of students

88

2.11 Course/Programme wise Distribution of pass percentage:

Title of the Programme	Total no. of students appeared	CGPA			
		> 8.00	6.00-7.99	5.00-5.99	Pass %
PG	259	12.4	87.3	2.7	98.63
PhD Course Work					
UG					
M Phil	93	17.2	77.41	3.23	96.43
Others					

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

- IQAC has directed the Schools/Departments/Centres to continuously evaluate through internal tests, assignments and seminars, direct question answer sessions, remedial coaching, tutorials, Subject familiarization through videos, visiting resource persons and special lectures and expert lectures from industry.
- The IQAC prepares a plan of action for each semester at the commencement of the semester and ensures that all activities get completed as per schedule. The schedule is also given to the students so that they can plan their studies accordingly.
- The IQAC also collects feedback from students and gives valuable suggestions and guidelines as and when needed. IQAC also improves faculty motivation for competence and promotes adoption of innovative teaching learning strategies.
- IQAC also gves specific irecttions for waste management in the schools and centers.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	8
UGC – Faculty Improvement Programme	8
HRD programmes	4
Orientation programmes	2
Faculty exchange programme	6
Staff training conducted by the university	0
Staff training conducted by other institutions	0
Summer / Winter schools, Workshops, etc.	13
Others	3

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	0	76	0
Technical Staff	426	26	17	0

Criterion – III

3. Research, Consultancy and Extension

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

- To enable the students imbibe research culture, IQAC made all possible efforts for the regular conduct of recommended the regularly organizes Conferences/ Workshops/ Seminars on frontier areas in the respective disciplines.
- IQAC closely monitors the progress of research in various fields, holds discussions with the faculty members, gives 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.
- **Community project work:** Socially relevant projects on real-time tourism management issues were done by the students guided by the faculty of the department in association with industry. The programme is monitored and evaluated accordingly and is used to refurbish the acquired knowledge.
- **Center for Nanoscience and Nanotechnology:** The Centre has organised an International conference on nanomedicine and tissue engineering. As part of the conference a public lecture was delivered for the society. Additionally speakers have gone to couple of schools to give seminars for the school children.
- Students of School of Tourism Studies undertook data collection for SAPARYA project of Tourist Resorts (Kerala) Limited – a Government of Kerala undertaking in Kumarakom.
- **Inter University Centres:** Inter University Centres have been established for promoting the interdisciplinary participatory research among the research and academic institutions within the State.
- The Department of Life Long Learning and Extension have been acting as a Centre for coordinating the extension activities.
- 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.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	11	38	1	0
Outlay in Rs. Lakhs	249.4	1516.196	10.233	0

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
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Number	2	2	3	0
Outlay in Rs. Lakhs	4.1	2.84	3	0

3.4 Details on research publications

	International	National	Others
Peer Review Journals	128	47	0
Non-Peer Review Journals	0	4	0
e-Journals	0	2	0
Conference proceedings	45	19	7

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 Rs. in Lakhs	Received
Major projects	2-4 Years	GFATM , ICSSR, DST-FIST,UGC, KSHEC	635.6	69
Minor Projects	3 Years	UGC, KITTS	4.1	4.1
Interdisciplinary Projects				
Industry sponsored	-			
Projects sponsored by the University/ College	-			
Students research projects <i>(other than compulsory by the University)</i>	-			
Any other(Specify)	1 Years			
Total				

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

Rs.83425/-

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	3	10	5	4	0
Sponsoring agencies	DST, CSIR, DRMS	VCT, NBA, CEET	MGU	MGU	

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

26

3.13 No. of collaborations

International

16

National

16

Any other

5

3.14 No. of linkages created during this year

9

3.15 Total budget for research for current year in lakhs:

From funding agency

87.07

From Management of University/College

5

Total

92.07

3.16 No. of patents received this year

Type of Patent	Status	Number
National	Applied	-
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

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

Total	International	National	State	University	Dist	College
4	3	-	1	-	-	-

3.18 No. of faculty from the Institution

27

who are Ph. D. Guides

and students registered under them

71

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

62

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

35

9

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
 National level International level

3.22 No. of students participated in NCC events:

University level State level
 National level International level

3.23 No. of Awards won in NSS:

University level State level
 National level International level

3.24 No. of Awards won in NCC:

University level State level
 National level International level

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

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

Extension activities for rural population; 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 organised by the School of Behavioural Sciences, School of Computer Sciences, School of International Relations & Politics, Students of Tourism Studies and Advanced Centre for Environmental and Sustainable Development are as detailed below:

- Extension programmes on stress management study habits, healthy living, life skills, etc., has been organised in the School of Behavioural Sciences.
- **Interface 2010-** An annual IT Meet (IT competitions) organized by the School of Computer Sciences provided a platform for students in Computer Science and Technology from various Universities and Colleges in South India to showcase their technical talents and also served as a forum for information interchange in the field.
- **Orphanage visit** – As an initiative of the Students, staff and faculty members of School of Computer Sciences visited a rehabilitation centre near Medical college, Kottayam,

spent a day with the inmates, majority of whom are mentally and physically challenged, as part of new Year celebrations and provided a modest financial help.

- The School of Computer Sciences was a participant as Exhibitor in the Educational Exhibition from 6-10 December 2010, organized by Mahatma Gandhi University, Kottayam at the University campus, in connection with the International Conference on the theme Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010).
- The School of International Relations & Politics organised several programmes with a view to generating interest in the fields of Human Rights, Public Policy and Governance. The faculty members conducted classes in and outside the campus in the related areas. Some of the programmes were held in collaboration with colleges and non-governmental organisations.
- **Rain water harvesting** :Participatory Rain water harvesting in a rural area by the Advanced Centre for Environmental and Sustainable Development

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	158.3281 acres
Class rooms	67+125	6+70	University Fund/State Plan Fund	73+195
Laboratories	58+74	13+39	University Fund/State Plan Fund	71+113
Seminar Halls	10+21	4+17		14+38
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	38+98	82+14	UGC, SAP DRS, DST, UTY FUND, GoK, IJIC	120+112
Value of the equipment purchased during the year (Rs. in Lakhs)	19.23+1	56.29+51.56	UGC, SAP DRS, DST, UTY FUND, GoK, IJIC	75.52+52.56
Others	-	-	-	-

4.2 Computerization of administration and library

The departmental libraries are automated and technological advancements are adopted in administration, admission and examination processes. Access to Internet & Computer facilities is available to students, faculty, Library and the office.

Software KOHA: 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.

“Shodhganga : 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 occupies the fifth position among the contributing Universities.

E journals : 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	128969	363.83	6477	58	135446	421.83
Reference Books	13216	37.66	1719	6	14935	43.66
e-Books	2500	-	-	-	2500	-
Journals	347	43.81	21	-	368	43.81
e-Journals	10998	-	3	-	11001	-
Digital Database	41	7.37	1	-	42	7.37
CD & Video	789	0.04	261	0.1	1226	0.14
Others (specify)	15419	0.03	0	0	15419	0.03

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	584	16	Internet	4	20	43	28	-

Added	99	7	Connecti on of 100 Mbps bandwid th is available through out the campus	14	1	3	4	-
Total	683	23		18	21	46	32	-

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

- ✓ 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. The Centralized Allotment Process has been moving on with tremendous success.
- ✓ As part of the International Conference Center for Nano Science and Nanotechnology structured a net work building exercise between university and industry in India and abroad.
- ✓ Computer and internet facility is being provided to students and faculties. Online access to different research journals is available through the University library network
- ✓ 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.
- ✓ Various types of online facilities such as registration for centralized admissions, examinations, grievances, examination results etc are available to the students. 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.
- ✓ 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.
- ✓ 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 of 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	152.05716
ii) Campus Infrastructure and facilities	864.74410
iii) Equipments	60.58358
iv) Others	225.56304
Total :	1302.94788

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- ✓ The IQAC strives to provide an environment conducive to the overall development of the students. Students are encouraged to participate in seminars, workshops and technical meets organized by various institutions. The School also conducts personality development workshops for the students. It also collects feedback from students and gives valuable suggestions and guidelines as and when needed.
- ✓ IQAC regularly conducts orientation programme for the students to train them for UGC-CSIR examinations
- ✓ Placement Cell to enhance placements.
- ✓ Remedial Coaching for academically weak students.
- ✓ The IQAC has Formed Anti Harassment Cell, and Anti Ragging Committee .
- ✓ The IQAC periodically monitors and evaluates the activities of the Students Grievance Redressal Cell functioning in the office of the Vice Chancellor
- ✓ Interacting with Alumni for placement/Project support
- ✓ Personal Accident Insurance Scheme and Financial aid for serious illness are being provided by the Department of Students Services on recommendation from IQAC.
- ✓ 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.
- Progression of students is regularly monitored. The faculty advisor assigned to each batch of students collects and files all personal and academic details of the entire batch of students. This enables the faculty member to keep a record of the previous academic record, personal background, current details, semester wise academic and co-curricular achievements of each student in a batch and helps to counsel and guide the ward in a more effective and fruitful manner.
- Slow and advanced learners are identified through the internal evaluation. In addition to the regular working hours, extra time has been given to the students to use the laboratory facilities to enhance their knowledge in the subjects not included in the curriculum.
- Remedial courses are being conducted for the improvement of weaker students. For every batch during the 1st semester a 2-week programming session is given for improving the programming competency of the students.

	UG	PG	Ph. D.	Others
5.3 (a) Total Number of students	4536	1445	253	287

(b) No. of students outside the state

3

(c) No. of international student

5

	No.	%		No.	%
Men:	3469	53.2	Women:	3052	46.8

Category	Last year	This year
General	3100	3200
SC	905	937
ST	122	154
OBC	23 2010	2213
Physically challenged/others	15	17

Total	6152	6521
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Demand ratio- 1:7 Dropout % - 10

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

Career Guidance: Career guidance Cell is functioning in the University coordinating Coaching classes for NET examination.

Special coaching class for SC, ST, OBC and other minorities.

The Career Guidance Cell conducts spoken English classes, personality development activities, career guidance and proper orientation for the students. A faculty member is in charge to observe those activities.

Spoken English class: Skill development

Conducted 18

5.5 No. of students qualified in these examinations

NET 29 + 9 SET/SLET 11 + 15 GATE 4 + 21 CAT -

IAS/IPS etc - State PSC 6 + 7 UPSC - Others 6

5.6 Details of student counselling and career guidance

Please see Annexure 5.6

No. of students benefitted 73 + 215

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
-	-	-	19	220	118

5.8 Details of gender sensitization programmes

- Women Empowerment programmes are conducted occasionally.
- The Grama Vikas Kendra of the Dept organise monthly get together of its women members.
- In the School of Social Sciences, Gender Studies is included as a component in Social Theory Course offered for MA and MPhil 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 discussion and debates are organized on gender equality, human rights and women issues in School of Behavioral Sciences.
- One of the faculty members of the School of Computer Sciences attended a workshop on "**Orientation Programme for Women Counsellors of Affiliated Colleges**", organized by Department of Student Services, Mahatma Gandhi University, 13/01/2011, 2011.
- 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	9	0.02
Financial support from government	80	19.28
Financial support from other sources	29	6.87
Number of students who received International/ National recognitions	1	0.05

5.11 Student organised / initiatives

Fairs: State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed

- Improvements have been made to facilities in the Students' Hostel.
- Students have greater access to internet facilities within the University 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

6.2 Does the Institution have a Management Information System

No, the University does not have Management Information System. However, the University shall be implementing the Management Information System through the e-governance project of the Government of Kerala.

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

6.3.1 Curriculum Development

Systematic and periodic updation of syllabi and revision of curriculum is carried out by the University so as to ensure the relevance of the course content. The various Boards of Studies discuss the matter of revision of syllabi taking into consideration inputs from all possible sources so to ensure comprehensive coverage of the topics keeping in view high academic standards and advancement in the discipline concerned. In the case of University departments the respective faculty councils discuss the need for updation of syllabi and hold informed discussions on the topics to be included or weened out before a final shape is given to the curriculum by the Board of Studies.

6.3.2 Teaching and Learning

The University provides a unique teaching experience to the students combining the best of both traditional classroom teaching with modern pedagogical techniques making use of ICT. The University has a learner friendly; need based learning system to equip the students with scholastic skills in the emergent areas of their respective disciplines. Class room lectures continue to be the essential pre requisite for imparting knowledge and periodic seminars, group interfaces etc. Provide the necessary intellectual climate for learning and research. The students are introduced to a variety of academic interfaces through which individual as well as group performances are constantly monitored and assessed.

Use of Audio Visual Aids like LCD Projectors, Speakers, portable mikes etc. augment the teaching tools to enrich the learning experience of the students.

6.3.3 Examination and Evaluation

Following the introduction of scheme of Credit- Semester and Grading system for undergraduate programmes in 2009-10 academic year, the University conducts both semester and annual exams. The postgraduate programmes offered in the regular University departments are in the CSS mode with internal and external examinations and evaluation. The internal evaluation comprises continuous evaluation of students on the basis of their performance in seminars, submission of assignments, performance in spot tests, debates, discussions, model tests etc.

For the first time in the history of the University examinations were held simultaneously for all streams (Model-I, Model-II), new generation courses, UGC sponsored courses at the undergraduate level.

A common academic and examination calendar is followed by the University for the CBCSS courses. The University has a system of double valuation for answerscripts and dissertations.

6.3.4 Research and Development

Research and development activities are assigned prime importance by the University. Research work is undertaken in frontier areas of various disciplines. The infrastructure for research has been upgraded by augmenting the research tools and facilities for data analysis in the University. Research collaborations exist between the University and several research institutions enabling a greater exposure to research scholars to the latest developments in their respective areas of research. Academic research is therefore thriving in the University. The faculty members work on frontier areas in the realm of science and related fields towards product development. Both experimental and research programs are going on in different areas in collaboration with leading research institutions within India and abroad. These collaborations make it possible for the University to send their research students to different research labs of international repute. Academic research is therefore thriving in the University.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The institution has adequate physical facilities for the conduct of the educational programmes efficiently. All departments are housed in separate buildings and each has sufficient infrastructure to offer its respective academic programme/s. The laboratories in the science departments are well maintained. The growth of the infrastructure keeps pace with the academic growth of the institution. The institution has effective mechanisms for maintenance and optional use of infrastructure. The institution has adequate library, computer facilities and other learning resources, with easy access to all its constituencies. The institution has sustainable good practices for ensuring adequate infrastructure and learning resources and its optimum use to facilitate student learning.

6.3.6 Human Resource Management

The University manages its human resources efficiently. It has an educated administrative staff and periodic training is imparted to augment their skills so as to enhance their productivity. The teaching faculty of the University consist of adequately qualified and motivated teachers who constantly update their knowledge through refresher courses and the like. In addition to them guest faculty and visiting faculty are engaged to augment human resources as when it is felt necessary.

6.3.7 Faculty and Staff recruitment

The recruitment of staff, both teaching and non - teaching, is done as per the stipulations in the MGU Statutes 1997. While recruiting teaching faculty due care is taken to ensure that persons with the right specialization is selected so as to agree with the academic objectives of the department. Apart from the regular faculty Visiting / Guest faculty also augment the academic resource pool of the teaching departments. Care is taken to ensure that sufficient faculty is available to cater to the pedagogical requirements of the students.

6.3.8 Industry Interaction / Collaboration

Several initiatives have been taken for industry interaction and collaboration.

- The School of International Relations and Politics has sustained interaction with the FICCI in promoting internationalisation of higher education.
- Steps are being taken to file a patent bw MG university and apollo tyers.
- The School of Tourism Studies involves representatives of the industry in the preparation of Syllabus and ensured their co-operation. A panel of Visiting Resource Persons and Adjunct Faculty including industry representatives was approved by the University and their services are utilized.
- The School of Social Sciences collaborated with Department of Forests and Wildlife, Government of Kerala as well as with the Periyar Tiger Reserve, Thekkady in their endeavours.
- The School of Bhavioural has collaborations with various agencies working in the field of disability education, training and rehabilitation.

6.3.9 Admission of Students

- ✓ Implimentaion of Centralised Allotment Process (CAP): Many UG and PG sydents were benefited by this programme, since they can select the program according to their wish
- ✓ **To attract the best students:** Admissions to PG and MPhil courses are through entrance tests and interviews held on a yearly basis.
- ✓ Ph.D Admissions are through entrance tests, screening by Doctoral Committees, counselling, and tests using methods like AAPHER, Game Proficiency test, group discussion etc., as per UGC, AICTE norms. Reservation policy is strictly adhered to.
- ✓ Permanent registration is provided only after successful completion of course work.

6.4 Welfare schemes for

Teaching	Residential quarters: 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	Most of the students are enjoying the 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.

6.5 Total corpus fund generated - Rs.3457.66715/-

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		External Examiners		Faculty Council
Administrative		Local Fund Audit		Audit Sections

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

For UG Programmes Yes No
For PG Programmes Yes No

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

- ✓ The CSS Regulations currently followed in the University have brought in major changes in the conduct of the various programmes and evaluation system.
- ✓ Continuous internal evaluation is undertaken on the basis of assignments, seminars, debates, discussions, journal club, quiz competitions, model exams etc..
- ✓ Credit Based Semester system/ Choice Based Credit Semester System has been followed for various courses with elaborate systems for Internal and external evaluations.
- ✓ 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. Establishment of the state Govt supported Rs 2.0 Crore Data Centre is progressing.
- ✓ University introduced on-line generated Hall Tickets for the CBCSS programmes.
- ✓ Pre- viva for Ph.D. Candidates before Thesis submission has been introduced.

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

Autonomy status to its affiliated colleges. Mahatma Gandhi was the first University in state to frame regulations for granting autonomy status to its affiliated colleges.

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.

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

The alumni meets help the student's to secure placements in various organisations.

The alumni participate 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 as our ambassadors.

The alumni meet also felicitated outstanding students of the School.

6.12 Activities and support from the Parent – Teacher Association

PTA of MG University is Enhancing Educational output of the students by improving Parent Teacher relations.

PTA takes an active role in developing programs, advocacy and training, operating at the school building, district, state and national levels and working on policy that supports the educational needs of children and promotes family engagement and strong partnerships between schools and the communities they serve.

PTA encourages students to explore the arts and express themselves by giving positive recognition for their artistic efforts.

6.13 Development programmes for support staff

Compulsory computer training for the employees of the University is facilitated through the e **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.

- ✓ Awareness programmes regarding the need for conservation of the nature and the importance for being eco friendly is communicated through student involvement activities like seminars
- ✓ Planted Medicinal plants and perennial plants as part of the green campus programme.
- ✓ Efforts taken to make the Campus plastic free.
- ✓ Waste Water Management system adopted
- ✓ Regular Office Clean and Campus clean/Green programmes
- ✓ An efficient rain water harvesting modality is existing in the campus.
- ✓ The Schools/Departments normally insist on performing research activities in a green manner avoiding toxic synthesis routes and chemicals.

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,

- **Advanced Centre of Environmental Studies and Sustainable Development - An Inter University Centre** - Efforts initiated to extend the activities of the University beyond the Campus, addressing the environmental issues, benefitting the communities at large
- **Department of Life Long Learning** - Started giving Counselling to the general public and that is being carried out by the best counsellors in the field and are well appreciated by the stakeholders
- **School of International Relations and Politics** - The School has very effective, transparent and rigorous internal mechanisms 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. Periodic review sessions 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 information-based mode, inculcates values of theory-embeddedness, self-reflexivity 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 counselling and tutorial interfaces. While classroom 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 also been sustaining a transparent, rigorous examination system under the CSS. The four semester pattern of MA involves continuous evaluation, mid-semester tests and end-semester examinations, seminar presentations, course-wise assignments such as book and/or article reviews, group interfaces and submission of a dissertation at the end of the fourth semester. The School since the introduction of the functional autonomy brought in innovation in the evaluation process of various programmes. The students are introduced to a variety of academic interfaces through which individual as well as group performances are constantly monitored and assessed.
- **Inter University Centre for Nano Science and Nanotechnology** - Facilitating faculty participation/ Budget allocation for research. Research fellowship for students / Providing infrastructure facilities. Establishment of a research committee / Providing application forms for major/minor projects/ Special opportunities for students and staff for enhancement of research activities . RS of NC being send abroad to carry out Reserch to have joint publication bw MGU anfd Foreignlaboratory.

- **University Library**
 - Inks Pact with INFLIBNET - Mahatma Gandhi University signed the first agreement with UGC-INFLIBNET among other Universities in India to submit online theses in to Shodhganga, the national repository, to provide open access to its doctoral dissertations.
 - Open Access Initiative of MGU and State Government's E-Learning Award – M G University continued to receive worldwide focus for its Open Access Initiatives during the year 2010-11. M G University's site *mgu.theses.org* bagged Government of Kerala's E- Learning Award for creating unique database of all the research theses accessed through internet.
 - Digital Library/ ICT Lab - has been fully functional with 14 computers
- Library Blog - Blog titled MGUL Moments (<http://mgulmoments.blogspot.com>) dedicated for timely reporting of events from the Central Library. Book Review blog (<http://mgulbkreview.blogspot.com>) gives updates about new books arrived in the library. Monthly book list and review are the main content of the book review blog. Provision for user interaction and dynamic content are the main features of the library blog.
- **School of Computer Sciences** - The faculty advisor assigned to each batch of students collects the personal and academic details of the entire batch of students. This enables the faculty member to keep a record of the previous academic record, personal background, current details, semester wise academic and co-curricular achievements of each student in a batch and could counsel and guide the ward in a more effective and fruitful manner
- **School of Communication Journalism** - Publishing Vartha a news journal from University youth Festival Venues.
- **School of Indian Legal Thought** - Bar-coding of books in the library, computerisation of library catalogue and fully computerisation of office
- **School of Tourism Studies** - Introduced weekly attendance register and periodical publication attendance percentage to regularize the attendance

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

Action planned		Action Taken
To strengthen the Inter University Centres already started and to start new centres for enhancing interdisciplinary studies	:	Several Inter University/School Centres were established during the period details of which have been furnished in Column 1.13 Page 5 of this AQAR.
Hosting Erudite Scholar in Residence Programme	:	Prof.Henry B Kagan, Dr.M.S.Valiathan, Nobel Laureates Prof.Ferid Murad, Prof.Robert Huber, 7 PROF. J.Diessenhofer, Prof.J.Belloni,Prof. Rene Muller, Jia Haitao, were hosted as Erudite Scholar- in – Residence.
To start an integrated MS PhD Programme	:	Integrated MS programme already started in IIRBS .

To organise a national seminars on various topics

:

National and International Seminars on various topics were organized.

7.3 Give two Best Practices of the institution

1. Launching of a Campus Watershed Development Programme.
2. Promotion of Interdisciplinary Research through establishment of Inter University Centres.
3. Brain storming discussion meeting to submit joint project proposals between MG University and other universities from abroad at the international conference organised by Center for Nanoscience and Nanotechnology.
4. Surprise test have been conducted for the students.

7.4 Contribution to environmental awareness / protection

The steps taken by several University Departments /Centres in this regard are enumerated as under:

- Advanced Centre of Environmental Studies and Sustainable Development - An Inter University Centre
 - ✓ Conducted environmental awareness programmes for school teachers, students & the public.
 - ✓ Conducted & participated in wildlife surveys in protected areas.
- Department of Life Long Learning and Extension
 - ✓ Through conducting courses like organic farming, and programmes to impart eco friendly message to the public
- Institute For Intensive Research in Basic Sciences
 - ✓ Encouraging green chemistry.
- School of International Relations and Politics
 - ✓ The students and faculty of the School kept engaged in promoting sustainable practices in environmental protection by conducting programmes and offering lectures and seminars within and outside the campus.
 - ✓
- School of Pure and Applied Physics
 - Students are given instruction to reduce the use of plastics and proper waste disposal

These steps are in addition to the general drive to make the campus plastic free and the steps that have already been put in place for conservation of bio diversity in the campus and the establishing of a Live Laboratory named 'Jeevaka'.

7.5 Whether environmental audit was conducted? Yes No

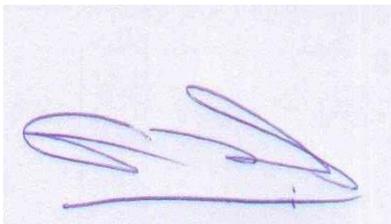
7.6 Any other relevant information the institution wishes to add.

The University introduced centralized allotment process for various Post Graduate Programmes during 2010-11 academic year .In the context of positive feed back from its stake holders CAP was introduced for undergraduate programmes from the cademic year 2011-12.

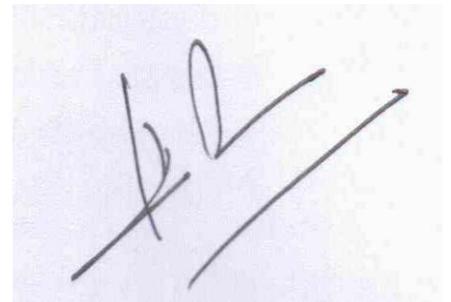
The University has decided to implement Credit Semester and Grading System for all Post Graduate Programmes from 2012-13 academic year and the process for restructuring of PG courses has begun.

8. Plans of institution for next year

- The University intends to conduct an International Book Fair ' INBOFA 'under its auspices during the next year. It is planned as a pioneering effort on the lines of an academic carnival which would showcase the fascinating ways of production, circulation and consumption of knowledge.
- Establishment of new Inter University Centres in Bio Medical Research , Music, Social Science Research to further the momentum for interdisciplinary research in cutting areas of various disciplines achieved through similar centres launched during the previous year.
- The modernisation drive to tone up the examination system to be continued. The infusion of ICT in a big way is being planned as is the setting up of a data centre in the University with the help of the Government of Kerala. This is expected to streamline the examination system in the University.
- Construction of an Academia Complex to house all Inter University , Inter School Centres for promotion of Inter Disciplinary Research.



Name: Prof (Dr) Sabu Thomas



Name: Dr. Babu Sebastian, Vice Chancellor

Annexure I

Best Practices of the institution

Best practice I

Title of the Practice

Campus Watershed Development Programme

Objectives of the practice

- ✓ To augment ground water resource of the area through increased recharge of rain water and construction of surface storage and percolation structures
- ✓ To increase the level of water table during summer months
- ✓ To bring down the concentration of iron content of the surface water to safe limits by maintaining required water level in the ponds especially during summer months
- ✓ To reduce surface runoff and soil loss from the surrounding areas through suitable biological and engineering soil and water conservation measures
- ✓ To reduce sedimentation rate of the storage structures
- ✓ To rejuvenate the plant and animal biodiversity of the area
- ✓ To mitigate the drinking water scarcity problem of the Campus during summer months
- ✓ To undertake research studies on soil water behaviour in a watershed consequent to adoption of various management techniques
- ✓ To establish a Model Watershed with demonstrative management technologies for creating awareness among students, public, administrators and elected representatives of people
- ✓ To conduct monitoring and evaluation studies relating to watershed management practices
- ✓ To evolve and suggest appropriate watershed management strategies for underground recharge of rain water for the different agro ecological zones of Kerala, by scaling up the experiences and observations made in the Model watershed.

Need addressed and the context

Acute water scarcity during the summer months is a serious problem in the university campus. Available rain water harvesting facilities are meagre and insufficient to meet the demands. The

campus has a green belt area of about 20Ha which is almost undisturbed and is identified as the Live Laboratory of the School of Environmental Science. This area along with the adjacent areas constitutes a natural watershed region. The area comprises of very steep to steep slopes and moderately sloping narrow valleys. Construction activities are going on the ridge line of this watershed area which causes added problems of soil disturbance and consequent surface water flow. The underground recharge has been tampered with and the ponds at the lower portion of the watershed quite frequently dry up during summer causing severe iron toxicity problem and drinking water scarcity in the entire campus area. The water requirement of the university is then to be met through water transported through tankers from outside the campus, at a very high cost. It is in this context that the ACESSD has decided to develop the **Priyadarshini Hills Watershed (Nalpathimala Watershed)** adopting the scientific watershed management technologies for augmenting groundwater recharge of rain water and mitigating the problem of water scarcity in the University campus. The project involves restoration and rejuvenation of the natural resources of the watershed, research studies, awareness creation, increasing the storage capacity of the ponds, enhancement of ground water recharge, and providing safe drinking water to the campus all the year round.

The practice

The activities proposed mainly focus on ground water recharge through various location specific technological interventions for Artificial Recharge (AR). AR is the process by which the Ground Water reserve is augmented at a rate exceeding that under natural conditions of replenishment

a. Rejuvenation of existing Lower Pond cum Bund

The existing pond at the lower portion of the watershed is now poorly maintained and its capacity has been greatly reduced as a result of large scale sedimentation and from the upper parts of the watershed. The protective bund at the out let side of the pond has been damaged and water flows is not regulated.

The proposed activity involves increasing the capacity of the pond for water storage, by silt removal, deepening, and expanding the total dimensions on all sides. The masonry structure on the western side will be re built to maintain higher water level within the pond. Provision for out flow will also be provided to safeguard the stream flow below the pond and to preserve the ecosystem downstream (Annexure 13).

The silt and clay dug out and removed from the pond will be utilised for stabilizing the bunds on the Northern and Southern boundaries of the pond. It is proposed to plant vegetative species like Bamboo, Reeds, Vetiver and other grasses on the bunds for its stabilization.

b. Rejuvenation of existing Middle Pond and Construction of Side wall

The work is similar to that of the Pond No.I at the lower portion. Activities like Deepening, Broadening, desilting and utilising the dugout silt and clay for stabilization of the northern and southern bunds , stabilization of the bunds with vegetative species like Bamboo, Reeds, Vetiver and other grasses are same as those in the case of the Pond No I. Here an additional pond will be dug out at the eastern side adjacent to the existing Pond and both the ponds will be merged to act as a single structure.

On the Western side, at present water flow is controlled to some extent by the road bund. But because of high seepage through the highly permeable road water is not impounded for long periods. There is no effective structure to check the flow of water which in quick downward flow of the collected water. This problem is proposed to be solved by constructing a stone masonry and concrete structure by the side of the road on the western side of the pond with provision for regulated water flow to the downstream.

c. Water Collection Pits across Water way, Water Percolation Ponds and Pond Net working

This activity is proposed at the higher contours of the watershed. Water Collection Pits (WCP) of various dimensions will be constructed at suitable locations and all the WCPs will be networked. In addition, five Water Percolation Ponds (WCP) will be constructed on the upper ridge portion where the runoff water and the excess from the WHT will be collected for recharging the underground water. The excess water from the Rain Harvesting Tanks (RWT) will flow in to the WCP and also in to the Continuous Contour Trenches (CCT) constructed as part of the project.

d. Percolation Pits, Staggered Trenches, Continuous Contour Trenches, Earthen Bunds, Vegetative Hedges(VH)

Percolation Pits (PP), Staggered Trenches (ST), Continuous Contour Trenches (CCT), and Earthen Bunds (EB) will be constructed and Vegetative Hedges (VH) will be established on the upper slopes and the side slopes of the watershed taking into account the soil and land suitability parameters. The objective is to conserve the maximum quantity of rain water that will recharge the underground water resource. The sides of the PP, STs, CCTs and the top of the EBs will be stabilized with Vetiver/ Grass system. Planting of indigenous tree species along the contour will also be taken up wherever plant density is low.

e. Tree planting

Indigenous species of trees will be planted on contour in about 2.5 ha of area which is now under inappropriate land use. The proposed species include Jack, Mango, Anjily, Teak, Neem, Asoka, Nux Vomica, Bamboo and medicinal trees.

f. Loose Boulder Check Bund and Brush Wood Check Bunds

One Loose Boulder Check Bund (LBCB) and five Brush Wood Check Bunds (BWCB) are proposed to be constructed across the stream at different locations for arresting the flow of water and to reduce the flow velocity as well to allow more water percolation in to the underground hydrological system.

g. Roof Top Rain Water Harvesting

A total of 10 Roof Water Harvesting Tanks (RWHT) each with a capacity of 50000 litres are proposed to be constructed on Ferro Cement Technology by the side of the newly constructed buildings on the ridge portion of the watershed to collect the water from the roof tops and to store it for drinking water needs. A total of 5 lakh litres will be stored in this manner at a time. The excess water flowing into the RWHTs will be diverted to the Percolation pits and Ponds for underground recharge. Water in excess of this recharge capacity will be diverted to the Rock Quarry modified as Rain Water Harvesting Structure near the Health centre through a

series of delivery pipes from the RWHS to the Rock Quarry. This will cater to the water requirement of the University and the inhabitants and visitors.

h. Well Recharging System

The roof water from the existing buildings and the buildings under construction will be collected and directed in to adjacent 22 wells. The well recharging system will consist of PVC pipe networks having provision for filtration of the water before its discharge in to the wells. This will replenish the underground water level especially during summer months when about 10% of the total rain fall is received as summer showers.

i. Automatic Weather Station

An Automatic Weather Station is proposed to be established under the project to monitor the daily weather parameters and to correlate the data with watershed behaviour. This will serve as a long term facility for watershed management related studies and training programmes. (Justification: All the studies relating to NRM require to be supported with local weather data for their meaningful interpretations to evolve replicable models. Since the University is at present not having a meteorological observatory, the data from other places have to be depended up on. The nearest station is about 10 km away. The data from these sources will not give a true picture of the ground situation and may therefore affect the data interpretations of the watershed based studies.)

j. Model Watershed

With the implementation of the various activities on scientific principles the watershed area is planned to be developed as a National Model for Watershed Management.

k. Documentation

Study Reports, research papers, success stories, and case studies will be published in national and international journals as part of the project. Books on watershed management, booklets and pamphlets for various stake holders will be prepared and published.

Evidence of success

The entire University campus is benefitted by the watershed development programme. University has been completely utilising the

Resources

Kerala State Jananidhi and School of Environmental Sciences

Best practice II

Title of the Practice

Promotion of Interdisciplinary Research through establishment of Inter University Centres

Objective of the practice

- ✓ Inter-disciplinary Academic Centre of independent status for the specific purpose of imparting education and training and promoting research and extension programmes.
- ✓ The Centres shall support cutting edge research, learning and academic pursuits and dissemination of scientific knowledge through various means and networking with other Universities, Colleges and R&D institutions across the country as well as outside.
- ✓ Inter University Centre shall be comprised of the willing/volunteer faculty of the University Departments of Teaching and Research, who shall serve as the adjunct faculty of the Centres.
- ✓ To provide common advanced centralized facilities/services for universities which are not able to invest heavily in infrastructure and other inputs.
- ✓ To play a vital role in offering the best expertise in each field to teachers and researchers across the country.
- ✓ To provide access for research and teaching community to the state-of-the-art equipment and excellent library facilities which are comparable to international standards.

Need addressed and the context

Inter-University Centres are established within the Universities in Kerala for centrally providing state of the-art facilities for researchers working in different Universities within the State. The Inter University Centres are interdisciplinary centres for cutting edge research across disciplines. The participating departments could carry out common research programmes synergizing available academic expertise in the Universities and research Institutes within Kerala. Post Graduate and PhD Programmes, Short term programmes for high-achieving students, Visiting Faculty Programme are some of the major programmes envisaged in these Centres. Twelve Inter University Centres have been established in the Universities in Kerala in niche areas and Mahatma Gandhi University has six such Centres.

The practice

The Centres will focus on inter disciplinary studies through scholarly inquiry. The Centres will be centrally provided with state-of-the-art facilities accessible for the researchers and other interested groups working in different Universities. The Centres shall offer innovative educational, consultative, and other support programs to foster research, teaching, and to guide curricular decisions. The Centres shall provide space and facilities to develop applications of research. The Centre could also be a coordinating institution to promote such research Programmes in the Universities. _ Special scholarships may be provided for students interested in research. The Centre shall support research collaborations between faculty and students. The

Centre could design Special credit courses in UG and PG levels for the students in any discipline and encourage such students to take up the credits. The Centre shall establish and maintain relations with similar research and teaching centers at other academic institutions.

Evidence of successes

All the Inter University Centres established so far in the University have been performing very well and have produced publications with high impact factor.

Resources

Grants from Kerala State Government, various funding agencies and the Government of India.

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
- Upgradation of existing Inter University Centres as International Inter University Centre for tapping in more funds
- Implementation of a new grievance redressal mechanism

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		
	xxxxx	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				
	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		
Phd	Chemistry				
4	School of Computer Sciences	PG	M.Sc. Computer Science		
		Ph D	Computer Science		

5	School of Environmental Sciences	PG	M.Sc. Environment Science & Management	
			M.Sc. Environment Science & Disaster Management	
		Ph D	M. Phil	Environment Management
				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			
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	PG	MBA
		M.Phil	Business Studies
		Ph D	Management
11	School of Pedagogical Sciences	PG	M.Ed
		M. Phil	Education
		Ph D	Education
12	School of Physical Education & Sports Sciences	PG	M.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
		PG	MCA
			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 (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 SCIENCES

Dr. P.S Sukumaran

1. Seminar on Analysis and Interpretation of Data. Govt. College of Nursing, Kottayam 02.07.2010
2. Seminar on Learning Disability, SVGV Training College, Aranmula, Pathanamthitta 17.07.2010
3. Seminar on Behaviour Modification. Mispah Special School, Kayamkulam. 21.07.2010
4. Seminar on Special Education Research. Nirmalasadana Training College for Special Education, Muvattupuzha.6.10.2010
5. Seminar on World Disability Day- Role of Parents in the Education of Children with Disabilities. SSA Block Resource Centre, Ettumanoor.3.12.2010.
6. Seminar on Mental Retardation. St. Joseph's Training College, Mannanam.8.12.2010.
7. Refresher Course in Education. Academic Staff College, University of Kerala, Thiruvananthapuram.13.12.2010.
8. Mental Retardation Awareness Generation Campaign. Navatheeram Rehabilitation Centre, Thodupuzha 25.2.2011.
9. Seminar on Special Education. Titus II College of Teacher Education, Thiruvalla 1.3.2011.
10. Chairman Seminar on Management of Learning Disability. School of Behavioural Sciences 22.3.2011.
11. Seminar on Research in Special Education. Janey College of Allied Health, Eroor, Tripunithura.17.2.2011.
12. Seminar on Research in Special Education, Snehasadan College of Special Education, Angamali 19.2.2011.

Dr. Rajeev Kumar N

1. Participated and chaired a session on one day National Seminar Management of Learning Disability, conducted by School of Behavioural Sciences, Mahatma Gandhi University, Kottayam on 22nd March 2011.

2. Presented and Participated in the one day National Seminar on “Management of Learning Disabilities” Organized by School of Behavioural Sciences on 22nd March 2011.

Dr. K.M Mustafa

1. Attended in 2 International Seminars and presented research papers. Participated international seminars conducted research works with the PG in the area of learning disabilities.
2. Presented and Participated in the one day National Seminar on “Management of Learning Disabilities” Organized by School of Behavioural Sciences on 22nd March 2011.

Rajesh E

1. Presented and Participated in the one day National Seminar on “Management of Learning Disabilities” Organized by School of Behavioural Sciences on 22nd March 2011.

Smt. Rincymol Mathew

1. Presented and Participated in one day National Seminar on “Management of Learning Disabilities” Organized by School of Behavioural Sciences on 22nd March 2011.
2. Participated as a Resource person in the International Seminar on Research Methodology – promoting nursing research culture at INE, SME, Regional Centre Angamaly on 27-29 May 2010

SCHOOL OF BIOSCIENCES

Dr.Jayachandran.K

1. 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
2. Jayachandran.K. Attended and presented a paper in a national symposium on emerging trends in Biotechnology, Department of Biotechnology, Cochin University of science and technology on 1-2 september, 2011

Dr.Harikumaran Nair

1. Abhilash M, Shashidhar S, Harikumaran Nair R. The role of electrolytes in cataractogenesis and modulation by silver nitrate in albino rats. 22nd Kerala Science Congress. 28-31 January 2010. KFRI, Peechi, Thrissur, Kerala, India

2. Sauganth Paul, Harikumar Nair R, Shashidhar.S. Lipid peroxidation and antioxidant activities in hypertensive subjects of different age group, Indian Science Congress, Medical Sciences section. 03.01.2010 to 07.01.2010, University of Kerala, Kerala, India

Dr.Jisha M.S

1. University workshop on research projects at M.G.University on April 2, 2010.
2. DST sponsored workshop for young scientists on **live cell functional imaging and neurotransmitters receptors functional regulation** at CUSAT on March 11-13, 2010.
3. Training on **Microbial Gene Manipulations** at CPBMB, College of Horticulture on May 3-15,2010
4. Response of Cowpea (*Vigna unguiculata* (L.) Walp). to phosphate solubilising bacteria isolated from rhizosphere (Presented at Swadeshi Science Congress, 2010)
5. Characterisation of biosurfactant produced by Linear Alkylbenzene Sulphonate degrading bacteria *Pseudomonas aeruginosa*. (Presented at Swadeshi Science Congress, 2010)
6. Bioremediation of synthetic Detergent and Designing of Bioreactor (Presented at 50th Annual Conference of Association of Microbiologists of India.)
7. Plasmid mediated Bioremediation of the Anionic surfactant Linear Alkylbenzene sulphonate (LAS) (Presented in the 22nd Kerala Science Congress, 2010)
8. Antifungal activity of phosphate solubilizing bacteria isolated from rhizosphere. (Presented in the 22nd Kerala Science Congress, 2010).
9. Isolation and characterization of Anionic Surfactant degrading Bacteria from soil. (Presented in the 1st Kerala Women's Science Congress at Ernakulam 2010)
10. Molecular identification of pathogenic bacteria from the midgut of *Culex* spp. Using 16S rDNA barcodes. (Presented in the national seminar on frontiers in biotechnology, 2010)

SCHOOL OF CHEMICAL SCIENCES

Dr. Beena Mathew

- 1) Hazardous dye removal from Water using polymeric hydrogels, Gigimol M.G, Dhanya K.R and Beena Mathew, 22nd Kerala Science Congress, KFRI, (Peechi) 2010.

- 2) Adsorption of Rose Bengal by Crosslinked Poly (N-Vinyl pyrrolidone), Dhanya K.R, Gigimol M.G and Beena Mathew, 97th Indian Science Congress 2010, University of Kerala, Thiruvananthapuram, 13-17, January 2010.
- 3) Microwave assisted polymer-supported oxidation reactions using polyvinylpyrrolidone-bromine complexes, Saju M. Sebastian, Beena Mathew & Ebey P. Koshy, 21st Swadeshi Science Congress, Kollam, Swadeshi Science Movement, Nov 7-9, 2011
- 4) Hazardous dye removal from Water using polymeric hydrogels, Gigimol M.G, Dhanya K.R and Beena Mathew, 22nd Kerala Science Congress, KFRI, (Peechi) 2010.
- 5) Adsorption of Rose Bengal by Crosslinked Poly (N-Vinyl pyrrolidone), Dhanya K.R, Gigimol M.G and Beena Mathew, 97th Indian Science Congress 2010, University of Kerala, Thiruvananthapuram, 13-17, January 2010.
- 6) Significance of polymeric hydrogels for the removal of hazardous dye Malachite Green from water, Gigimol M.G, Dhanya K.R and Beena Mathew, International Conference on Polymer processing & characterisation M. G. Univ. Kottayam January 15-17, 2010.
- 7) Co-polymeric hydrogel for the removal of hazardous dye Malachite Green from Water, Gigimol M.G, Dhanya K.R and Beena Mathew, National Seminar on Nanomaterials, Amal Jyothy College of Engineering, Kanjirappally 22-23, 2010
- 8) Dependence of the degree of crosslinking on the enantioselectivity of D-Mandelic acid imprinted polymer, Smitha K. R & Beena Mathew, UGC sponsored National Seminar on Green Chemistry, Alphonso College, Pala, July 2010.
- 9) Design of Semi IPNs for selective Metal Ion Binding, Shiby Susan Kuriakose, Beena Mathew, UGC sponsored National Seminar on Green Chemistry, Alphonso College, Pala, July 2010.
- 10) Design of Metal ion selective polymers by ion imprinting, Bindu M. S & Beena Mathew, UGC sponsored National Seminar on Green Chemistry, UGC sponsored National Seminar on Green Chemistry, Alphonso college, Pala, July 2010.
- 11) Molecular imprinted polymers of a flavanoid, Subi Joseph & Beena Mathew, UGC sponsored National Seminar on Green Chemistry, Alphonso college, Pala July 2010.
- 12) Role of polymeric hydrogels in the environment, Gigimol M.G, Dhanya K.R and Beena Mathew, ACS 178 Technical Meeting (Rubber Division), Online Ailwaukee, WI, USA, October 12-14, 2010
- 13) Rose Bengal Bound NNMBA-Crosslinked Aminopolyacrylamide as Polymeric Photosensitizer, Gigimol M.G, Dhanya K.R and Beena Mathew, National Conference on current trends in Chemistry NCCTC-10, Bharatiar University, Coimbatore 2- 3, December 2010.
- 14) Photo oxidizing Ability of NNMBA-Crosslinked Amino polyacrylamide, Gigimol M.G, Dhanya K.R and Beena Mathew, National Conference on current trends in Chemistry NCCTC-10 Bharatiar University, Coimbatore 2- 3, December 2010

SCHOOL OF COMPUTER SCIENCES

Dr. R. Vijayakumar

1. Workshop on **“Teaching Learning Process”**, Dr. R. Vijayakumar, School of Computer Sciences, April 6, 2011.
2. **National Conference on “Computing and Communication (NCCC 2011)”**, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011.
3. 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.
4. 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
5. 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
6. Muhamed Ilyas, “Location privacy in location based services”, National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
7. 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
8. K K Benazir, R Vijayakumar, “Robust Enhanced Algorithm for Fingerprints”, International Conference on Global Computing (ICGC), March, 2011 ID No: Comp-13.

Ms. Bindu V.R.

1. National Workshop on **“Digital Content Authoring Technology and Use of Open Educational Resources”**, IGNOU, Kochi, 10/6/2010 To 13/6/2010.
2. National Symposium on **Public Key Infrastructure Outreach Programme-** Nation wide PKI awareness Programme, CDAC Bangalore And Controller of Certifying Authorities, Govt. of India, 19/8/2010.
3. **“Orientation Programme for Women Counsellors of Affiliated Colleges”**, Department of Student Services, Mahatma Gandhi University, 13/01/2011.

4. Workshop on **“Tour Making”**, Mr. Aravind Paranjpye, Officer for Science Popularization, IUCAA, Pune, October 18-19, 2010.
5. International Conference on **“Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010)”**, Mahatma Gandhi University, December 6-10, 2010.
6. Seminar on **“Cyber Crimes”**, Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010.
7. Workshop on **“FOSS and BOSS”**, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010.
8. Workshop on **“e-Astronomy and Statistics”**, organized by School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011.
9. Seminar on **“Best Programming Practices”**, Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011.
10. Workshop on **“Computer Networking Leading to CCNA Certification”**, March 16, 2011.
11. Workshop on **“MCA Syllabus Revision”**, Mahatma Gandhi University, 24-25 March 2011 and 12th May 2011.
12. Workshop on **“Teaching Learning Process”**, Dr. R. Vijayakumar, School of Computer Sciences, April 6, 2011.
13. **National Conference on “Computing and Communication (NCCC 2011)”**, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011

Ms. Pushpalatha K.P.

1. International Conference on **“Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010)”**, Mahatma Gandhi University, December 6-10, 2010.
2. Seminar on **“Cyber Crimes”**, Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010.
3. Workshop on **“FOSS and BOSS”**, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010.
4. 2010 IEEE International Conference on **Computational Intelligence and Computing Research**, Coimbatore, 28--29, December 2010.
5. Workshop on **“e-Astronomy and Statistics”**, organized by School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011.

6. Seminar on **“Best Programming Practices”**, Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011.
7. Workshop on **“MCA Syllabus Revision”**, Mahatma Gandhi University, 24-25 March 2011 and 12th May 2011.
8. Workshop on **“Teaching Learning Process”**, Dr. R. Vijayakumar, School of Computer Sciences, April 6, 2011.
9. **National Conference on “Computing and Communication (NCCC 2011)”**, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011.
10. Pushpalatha,K.P, Raju,G. Analysis of Algorithms to Compute Term Discrimination Values. 2010 IEEE International Conference on Computational Intelligence and Computing Research, page(s): 1 - 6 Location:Coimbatore,Print ISBN:978-1-4244-5965-0, 28-29, December 2010.

Ms. Anuj Mohamed

1. Workshop on **“Digital Content Authoring Technology and Use of Open Educational Resources”**, IGNOU, Regional Centre, Cochin, June 10-13, 2010.
2. One day symposium on **“PKI Outreach”** organized by CDAC, Bangalore and Controller of Certificating Authorities, Govt. of India, as part of the Nationwide PKI Awareness Programme , Kochi, August 19, 2010.
3. Conference on **“Emerging Trends in Computing”** organized as part of Amrita ACM-W Celebration of Women in Computing (A2CW_iC 2010) “, Department of Computer Science and Engineering, Amrita Vishwa Vidyapeetham University, Coimbatore, September 16-17, 2010.
4. Workshop on **“Tour Making”**, Mr. Aravind Paranjpye, Officer for Science Popularization,IUCAA, Pune, October 18-19, 2010.
5. International Conference on **“Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010)”**, Mahatma Gandhi University, December 6-10, 2010.
6. Seminar on **“Cyber Crimes”**, Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010.
7. Workshop on **“FOSS and BOSS”**, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010.
8. Workshop on **“e-Astronomy and Statistics”**, organized by School of Pure and Applied Physics in association with School of Computer

Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011.

9. Seminar on “**Best Programming Practices**”, Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011.
10. Lecture by Prof. Sir. Anthony J. Leggett, Nobel Laureate, University of Illinois. (Erudite Scholar- Mahatma Gandhi University), January 31, 2011.
11. Workshop on “**Computer Networking Leading to CCNA Certification**”, March 16, 2011.
12. Workshop on “**MCA Syllabus Revision**”, Mahatma Gandhi University, 24-25 March 2011 and 12th May 2011.
13. Workshop on “**Teaching Learning Process**”, Dr. R. Vijayakumar, School of Computer Sciences, April 6, 2011.
14. **National Conference on “Computing and Communication (NCCC 2011)”**, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, May 26-27, 2011.
15. Anuj Mohamed, K.N. Ramachandran Nair, *Continuous Malayalam Speech Recognition using Hidden Markov Models*, “Conference on “Emerging Trends in Computing” organized as part of Amrita ACM-W Celebration of Women in Computing (A2CW_iC 2010) , Department of Computer Science and Engineering, Amrita Vishwa Vidyapeetham University, Coimbatore, September 16-17, 2010.

SCHOOL OF ENVIRONMENTAL SCIENCES

Dr. C.T. Aravindakumar

1. National Conference on Radiation and Photochemistry, March 10-12, 2011 Johdpur
2. International Conference on Advanced Oxidation Processes, Sept 18-21, 2010, Kottayam.
3. National Conference on Disaster, Risk and Vulnerability Conference, March 12-14, Mahatma Gandhi University. Kottayam, Kerala

Dr.E.V.Ramasamy

1. LAKE 2010 – Organised by Indian Institute of Science (IISc), Bangalore , December 2010
2. International Conference on Climate Change and Developing Countries, Kottayam

3. National Conference on Disaster, Risk and Vulnerability Conference, March 12-14, Mahatma
4. Gandhi University. Kottayam, Kerala.
5. Advanced Training Programme in Environmental Sciences, organised by School of Environmental Sciences, Collegiate Education Department - Govt. of Kerala and Academic Staff College, University of Kerala. August 16 - 20, 2010, Kottayam

Dr. Mahesh Mohan

1. Kerala Science Congress, Trivandrum. January 2010
2. International Conference on Climate Change and Developing Countries, Kottayam
3. International Workshop on Biodiversity and Climate Change. Dec. 19-22. 2010.
4. National Conference on Disaster, Risk and Vulnerability Conference, March 12-14, Mahatma Gandhi University. Kottayam, Kerala
5. LAKE 2010 - Organised by Indian Institute of Science (IISc), Bangalore, December 2010
6. Advanced Training Programme in Environmental Sciences, organised by School of Environmental Sciences, Collegiate Education Department - Govt. of Kerala and Academic Staff College, University of Kerala. August 16 - 20, 2010, Kottayam

Dr. Syllas V.P.

1. Kerala Science Congress, Trivandrum. January 2010
2. Kerala Science Congress, Kollam, January 2011
3. National Conference on Disaster, Risk and Vulnerability Conference, March 12-14, Mahatma Gandhi University. Kottayam, Kerala
4. Advanced Training Programme in Environmental Sciences, organised by School of Environmental Sciences, Collegiate Education Department - Govt. of Kerala and Academic Staff College, University of Kerala. August 16 - 20, 2010, Kottayam

SCHOOL OF INDIAN LEGAL THOUGHT

Dr. George Joseph

1. Commonwealth Legal Education Biennial Conference' organized by CLEA & National Law School of India University at Bangalore on 29-30, January 2011 and presented the paper 'Legal Education-Changing Dimensions and Challenging Tasks.
2. Symposium on 'Judicial Accountability and Indian Democracy' organized by the Institute of Parliamentary Affairs, Government of Kerala on 24 January 2011 at St. Mary's College Sulthan Bathery and presented the paper 'Judicial Accountability and the Peoples' Right to Know'.

3. International Conference of Jurists held on December 11-12, 2010 at New Delhi and presented paper on 'Right to Information, Freedom of Press and Legislative Privileges - An Overview of Indian Scenario.
4. National Seminar on 'Freedom of Press & Legislative Privileges' organized by School of Legal Studies Kannur University on 17-18, December 2010 and presented the paper 'Freedom of Press and Legislative Privileges.

Dr.Sheeba Pillai

1. Participated in thr Inter disciplinary National Workshop on Women and Law,23rd-25th Feb 2011,GLC Ernakulam
2. Participated and Presented a Paper in The National Seminar on Right to Education: Policy and Challenges, Dept. of Law, Kerala University- 5th-7th August 2010 paper presented" Defining the Right to Education: International Senario
3. National Seminar on Right to Education and Right top Establish Educational Institutions- A Constitutional Perspectives, organised by SILT 18-19 March,2011 Paper Prsesnted: Right To Primary Education- A Constitutional Perspectives"
4. National Seminar on " Realisation of Socio-Economic Rights" organised by 3-5 February 2011 Department of Law ,Kerala University.

Sri. Sunil Kumar Cyriac

1. National Seminar on Maintenance of Professional Stnadards and Legal Control In India. Paper Presented: Role of Academia in the development of Legal Profession-Govt. Law College Ernakulam
2. National Workshop on Women and Law acted as expert panel-Govt. College Ernakulam

SCHOOL OF INTERNATIONAL RELATIONS AND POLITICS

K.M. SEETHI

1. 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
2. Special Lecture on "India's Defence Policy: Critical Perspectives," at MASCOM, Kottayam on 7 October 2010.
3. Keynote Speech at the seminar on "Mahatmaji and Nation-building" organised by *Mathrubhumi* on 13 May 2010 at Thrissur.
4. Resource person and Presented Paper at the Indian Council of Historical Research (ICHR) sponsored Course on *Theory and History* on 3 February 2010 organised by Mahatma Gandhi University: Theme of Presentation "Constructivism."

C. VINODAN

1. *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.

GIRISH KUMAR R

1. *Jean Monnet Fellow*, 2010 for doing Post-doctoral research at Topic of research: 'WTO, TRIPS and South Asia: Does International Law penalise the Poor?' at *European University Institute*, Robert Schuman Centre, Florence, Italy.
2. Refresher Course in Statistics and Research Methods, Academic Staff College, Trivandrum, 2011
3. Orientation course, Academic Staff College, Trivandrum, 2011
4. EUI Academy of Global Governance, Italy, Training on *Power, Conflict and Conflict Regulation 15-19, November 2010*.
5. EUI Academy of Global Governance, Italy, Training on *Global Regulation and New Social Risks*, 2010.
6. Paper presented at the Millennium Conference, 2010 ('International Relations in Dialogue') at London School of Economics and Politics on *Politics of North- South Dialogue: A Constructivist Explanation to the current Impasse in Doha Round Negotiations* (Co-author Schieder Siegfried) on Oct 17, 2010
7. WTO, TRIPS and South Asia: Does International Law Penalise the Poor?, *Paper presented at Robert Schuman Centre for Advanced Studies, EUI, Florence on 28th April, 2010*.
8. WTO, Global Governance and the Developing Countries- The Indian Experience, *Prague Conference on Political Economy, March 19-21, 2010, Prague, Czechoslovakia*.

A.M. THOMAS

1. United States-India Educational Foundation, "Workshop on Building Partnerships," Chennai, 22-23 February 2011.
2. National Seminar on Conflict Resolution in South Asia, Centre for Gandhian Studies, Alphonsa College, Pala; and Centre for Asia Studies, Chennai, 1-2 February 2011.

RAJU K. THADIKKARAN

1. Represented Mahatma Gandhi University in the International Conference on Higher Education organised by EDGE secretariat "Emerging Dimensions in global Education held during March 2011 at India Habitat Centre New Delhi.

BIJULAL MV

1. 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.
2. **COORDINATOR** Session on Civil Society, at the INBOFA, Organised by the M.G. University, 2012
3. **Skill Development Programme:** Methods and Approaches in Research on Migration Issues Centre for Development Studies, Trivandrum, May 21-25, 2011.

SCHOOL OF LETTERS

Dr. P P Raveendran

1. "Introduction," *The Writings of MT Vasudevan Nair* by MT Vasudevan Nair (Hyderabad: Orient Blackswan, 2010).
2. "Text as History, History as Text," *Kamala Das*, ed. Devindra Kohli (New Delhi: Pencraft International, 2011)
3. 24th CA Sheppard Memorial Lecture, St Berchman's College Changanasserry, 30 March 2011 (Theme: "World Literature: Concept and Concerns")
4. UGC-CAS Workshop on Comparative Literature Methodology, Jadavpur University, Kolkata, 22-23 March 2011 (Resource Person: Lecture on "Literary Historiography and Methods of Translation")
5. CLAI Biennial International Conference on Comparative Literature, Central University Gujarat, Ahmedabad 3-6 March 2011 (Plenary lecture: "Literature as Supermarket: World Literature Today")
6. Folklore Academy Seminar on Folklore and Literature, Kerala Sahitya Akademi, 22-23 February 2011 (Paper: "Literature and Folklore")
7. National Seminar on Translating Cultures, School of Translation Studies and Training, IGNOU, New Delhi, 17-18 February 2011 (Paper/Chair: "Translation as Literary History: Reflections on Modernity and Aesthetics")
8. IACLALS – University of Kerala Seminar on Comparative Cultural Studies: Towards New Postcolonial Paradigms, 27-29 January 2011, Thiruvananthapuram (Plenary lecture: "From Comparative Studies to Cultural Studies")

9. Sahitya Akademi National Seminar on “Re-reading Romanticism: Changampuzha Birth Centenary Seminar,” Cochin, 14-16 January 2011 (Paper/Chair: “Changampuzha and Modernism”)
10. Invited lecture at the School of Language Literature and Culture, Central University of Gujarat, Gandhinagar, 29 October 2010 (Lecture on “Comparative Literature as Culture Studies”)

Dr. P S Radhakrishnan

1. Presented paper “Janapriya samskaram” *in the* National seminar on Popular Culture: Theory & Practice 12-14 August 2010 organised by Dept. of Malayalam, Nirmala College, Muvattupuzha.
2. Presented paper “ Shift in Spectatorship of Malayalam Cinema in the age of Global Kollywood ” *in the* National seminar on Media in language teaching 24-25 Feb.2011 organised by Dept. of Malayalam, Madurai Kamaraj University and CIIL, Mysore.
3. Presented paper “ Malayala Nadaka Tharjamakul ” *in the* National seminar on Tharjamayum Sahityavum 9-10 March 2011 organised by St.Xaviers college, Aluva
4. Presented paper “Janapriyathaye Punarnirvachikkumpol ” *in the* National seminar on Bhashamanobhavam: Desavicharithinte adayalanga 15-16 March 2011 organised by Centre for Gandhian Studies, S B College, Changanacherry.
5. Presented paper “Global Cinema regional Perspective “ *in the* National seminar on Contemporary Malayalam 25-26 March 2011 organised University of Madras and CIIL Mysore.

Dr.Harikumar S

1. National Seminar on ‘Changampuzha, Vailoppilly and K N Ezhuthachan’ organized by Dept. of Malayalam, University of Calicut held on 29th March 2011.

Dr.Saji Mathew

1. Presented paper in the International Conference on “Envisioning Postcolonial Theologies” at The United Theological College, Bangalore (2010)

Sri. P Balachandran Nair

1. Lecture on narration in Drama and Cinema on January 26 at UC College Aluva
2. Lecture on Modern Trends in Theatre on July 9 at St Alberts College Eranakulam .

3. Lecture on “ New Face and Expression of Drama in Malayalam” on July 22 at seminar organised by Department of Malayalam, Devamatha College, Kuravilangad.
4. Presented Paper on “Malayalam Theatre today” on December 5 at International Theatre Festival organised by Kerala Sangeetha Nataka Academy Trichur.

SCHOOL OF MANAGEMENT AND BUSINESS STUDIES : NIL

SCHOOL OF PEDAGOGICAL SCIENCES

Dr. Celine Pereira

1. Presented a paper on “Reflective Practices for mitigation of Human Conflicts” in the International Conference on mitigation of Human Conflicts at Annamalai University, on February 18 and 19, 2010.
2. Presented a paper on ‘Attitude of Teacher towards the inclusion of children with special needs” in the International Conference on Adaptability and responsiveness in teacher education organized by Govt. College of Teacher Education Trivandrum on 18th and 19th June 2010.
3. Presented a paper on Education, Kerala State Centre on “Peace Education: An orientation for Gen Next; on 13th and 14th August 2010 organized by St. Thomas College of Teacher Education, Pala
4. Presented a paper on “A study on the level of Life Skills of student teachers of Kerala” in the second International Conference on Life Skills Education on 8-10 December 2010 organized by **RGNIYD** Sreeperumbatoor, Tamil Nadu.
5. Presented a paper on “Analyzing Ego states for screen world” in the International Conference on Higher education on Dec. 2010 organized by Mahatma Gandhi University, Kottayam.
6. Presented a paper on” Life Skill Training for Children with special Needs through inclusive Education” in the UGC Sponsored National Seminar on Education and Social Sensitivity on 25-26 Nov. 2010 organised by St. Thomas College of Teacher Education, Pala.

Dr. Jaya Jaise

1. Participated in the National Seminar on “Honing Researchers Skills through Methodological Orientation” organized by School of Pedagogical Sciences, Mahatma Gandhi University, from 7th to 9th July 2010
2. Participated in the Workshop on “Rejuvenating Reified M.Ed. Programme” organized by School of Pedagogical Sciences, Mahatma Gandhi University, on 5th August 2010
3. Participated in the International Forum on “Interactive Conclave of Researchers on Innateness towards the Fabulous Curricular

- Traversities in Education” organized by School of Pedagogical Sciences, Mahatma Gandhi University, on 12th August 2010
4. Participated in the International Seminar on “Peace Education : An Orientation for Gen Next” organized by Council for Teacher Education (CTE), Kerala State Centre, & St. Thomas College of Teacher Education, Pala, on 13th & 14th August 2010
 5. Participated in the State workshop on “The Tumultuous Treasure House of M.Ed. Curriculum Revamping” organized by School of Pedagogical Sciences, Mahatma Gandhi University, on 10th November 2010
 6. Participated in the State workshop on “Finalization of the profuse pathways of M.Ed. CBCSS Curriculum” organized by School of Pedagogical Sciences, Mahatma Gandhi University, on 27th January 2011
 7. Participated in the National Workshop on “Educational Research” organized by Government College of Teacher Education, Thiruvananthapuram, from 10th to 14th February 2011
 8. Participated in the seminar on “Neural Bases of Human Thought” organized by Researchers Guild of Innovations, Thiruvananthapuram, 18th July 2011.
 9. Presented the paper Interpersonal Relationships in Education in the seminar Education and Social Sensitivity Organized by St. Thomas College of Teacher Education, Pala, Kottayam Sponsored by UGC on 25th & 26th November 2010
 10. Presented the paper Constructivism: A Pedagogy for Peace Education in the seminar

SCHOOL OF TOURISM STUDIES

Dr. Robinet Jacob

1. “Can God’s Own Country Sustain Itself? Eco friendly practices for Sustainable Tourism Development and Management in Kerala” (2010), International Society of Travel and Tourism Educators (ISTTE) Conference Proceedings, Long Beach, Mexico, 18-22Oct, 2010.
2. “Health Care in Foreign Hands: Trends, Issues, Directions” (2010), Annual conference of International Academy of Business and Economics, Las Vegas, 17-20 Oct, 2010

SCHOOL OF PURE AND APPLIED PHYSICS

Dr C Sudarsanakumar

1. Ist Kerala Women’s Science Congress Aug 2010, St. Teresa’s College, Ernakulam, Kerala, India by Dr C Sudarsanakumar.
2. Mini-Symposium on Macromolecular Crystallography, October 2011, Centre for Cellular and Molecular Biology, Hyderabad.by Dr C Sudarsanakumar.

3. National Conference on Recent Trends in Materials Science, October 2011, Jaypee University of Information Technology, Himachal Pradesh by Dr C Sudarsanakumar.
4. XXIX th Meeting of the Astronomical Society of India, Raipur 2011 (organizing & rapporteur talk)
5. **“National Seminar on Introductory Astronomy and Astrophysics”**, Department of Physics, Fatima Mata National College Kollam, 20-22, October 2011.

Dr N V Unnikrishnan

1. Third international Conference on Frontiers in Nanoscience and Technology Cochin Nano 2011 August 14-17, 2011 PHOTOLUMINESCENT SAMARIUM MOLYBDATE NANOCRYSTALS EMBEDDED IN POROUS SILICA MATRIX Kamal P Mani, Vimal G, Viji Vidyadharan, Biju P R, Cyriac Joseph and N V Unnikrishnan
2. UGC SPONSORED NATIONAL WORKSHOP ON MESMERISMS IN OPTO-ELECTRONICS 11th&12th July 2011 Baseliusscollege, Kottayam
3. Fluorescent Enhancement In Sm³⁺ /TiO₂ Nanocrystallites Doped PVP Matrix Presented at International Conference on Contemporary Trends in Optics and Optoelectronics. XXXV Optical Society of India Symposium : 17,18,19 January 2011.
4. Presented at IIST Thiruvananthapuram, India RGB Emission From RE Ions Doped Titania/PVP Hybrid Matrix, by Dr N V Unnikrishnan
5. Presented at ‘OPTICS 11’ International Conference on Light: 23,24,25 May 2011: National Institute of Technology Calicut, Kerala, India by Dr N V Unnikrishnan
6. National Workshop: 11,12 July 2011: Baseliuss College Kottayam, Kerala, India White Light Emission From Tb³⁺ : Eu³⁺ / PVA Film Under Single UV Excitation Presented at ‘Mesmerism in Opto-Electronics’
7. Photoluminescent Samarium Molybdate Nanocrystals Embedded in Porous Silica Matrix Third International Conference on Frontiers in Nanoscience and Technology [Cochin Nano-2011] Cochin, Kerala, India 2011
8. Xavier Joseph, Arun Kumar K V, Prathibha Vasudevan, Gijo Jose, **N V Unnikrishnan.**, Optical and Z-Scan studies of CdS/Tb³⁺/Eu³⁺ doped silica matrix, National Laser Symposium [NLS-9] , Baba Atomic Research Center (BARC), Mumbai, Jan 2010.
9. Jyothy P.V, Rejikumar P.R, Vinoy Thomas, Karthika S, **Unnikrishnan N.V**, Optical characterization of CdSe/Dy³⁺ doped silica matrices, ‘National Laser Symposium’ [NLS-9, 2010], Baba Atomic research Center (BARC), Mumbai.
10. Prathibha Vasudevan, Sunil Thomas, Siby Mathew, **N V Unnikrishnan.**, Synthesis and characterizations of anatase TiO₂ nanocrystals by simple polymer gel technique. International Conference on Composites and Nanocomposites [ICCN- 2011], Kottayam, India, Jan 2011.
11. Prathibha Vasudevan, Sunil Thomas, Karthika S, Biju P R, Cyriac Joseph, **Unnikrishnan N V**, Fluorescence enhancement in

- Sm³⁺/TiO₂nanocrystallites doped PVP matrix, XXXV Optical Society of India Symposium, International Conference on Contemporary trends in optics and Optoelectronics, IIST, Trivandrum, Jan 2011.
12. PrathibhaVasudevan, Karthika S, Sunil Thomas, Siby Mathew, **Unnikrishnan N.V**, Synthesis And Characterization Of Anatase TiO₂ Nanoparticles By Simple Polymer Gel Technique, National Seminar on 'Recent trends in nonlinear optical materials and characterization' [2011], Sacred Heart College, Chalakudy.
 13. PrathibhaVasudevan, Arun Kumar K V, Sunil Thomas, Biju P R, **Unnikrishnan N V**, RGB Emission From RE Ions Doped Titania /PVP Hybrid Matrix, International conference on light: OPTICS'11: NIT Calicut, Kerala, India, May 2011.
 14. PrathibhaVasudevan, Karthika S, Sunil Thomas, Biju P R, **N V Unnikrishnan.**, White light emission from Tb³⁺, Eu³⁺/PVA film under Single UV Excitation, National Workshop on "Mesmerisms in Opto-electronics", Baselius college, Kottayam, July 2011.
 15. PrathibhaVasudevan, Arun Kumar K V, Karthika S ,Sunil Thomas, **N V Unnikrishnan.**, Nanocrystallization of TiO₂ in PVP matrix and its structural characterizations, Third International Conference on Frontiers in Nanoscience and Technology, Cochin Nano-2011, August 2011.
 16. Behaviour of equatorial electrojet, during geomagnetically quiet and disturbed periods, K.Unnikrishnan, Proceedings of 21stSwadeshi Science Congress, Proceed 21st SSC, ISBN 81-901740-2-10, 491-494, 2011
 17. Dependence of magnetosphere - ionosphere system on solar activity –A chaotic perspective, Subhadra Devi P.K.1 &Unnikrishnan K.,Proceedings of 21stSwadeshi Science Congress, Proceed 21st SSC, ISBN 81- 901740-2-10, 485-490, 2011
 18. Modelling on geomagnetic storm index, RemyaRemanan and Unnikrishnan K. Proceedings of 21stSwadeshi Science Congress, Proceed 21st SSC, ISBN 81- 901740-2-10, (472-476), 2011.

Dr. S Antony

1. World Wide Telescope India Workshop at IUCAA, Pune funded by Microsoft Research, Caltech and IUCAA, Pune 2010 (attendance) Effect of Kinetic Pressure in Rayleigh Tailor Instability in Coronal Plasmas Presented in 30th Astronomical Society Meeting, 19-22, February 2013, IISER, Thiruvananthapuram Blesson Jose, **Antony S.**

Dr. S Antony and Dr. Chandu Venugopal

1. Limits for the Weibel-like instability in the central plasma sheet International seminar on Space Science and Technology, 12-13 October 2010, NSS College, Changanachery, Blesson Jose, **S Antony**, VidyaVijayan, Paulose Thomas and ChanduVenugopal

2. The electron cyclotron instability in a plasma with transverse currents International seminar on Space Science and Technology, 12-13 October 2010, NSS College, Changanachery, Samuel George, R Jayapal, Savitri Devi E, **S Antony** and ChanduVenugopal
3. National Workshop on "Synthesis, Characterization and Applications of Nanomaterials"-NWNM- 2010 held during 12-14 January 2010
4. 18th Slovenian and Croatian vacuum meeting-2011, Bhohinj, SLOVENIA
5. National Conference on Recent Advances in Correlated Electron Systems held at Indian Institute of Technology, Guwahati during 18-20 January 2010
6. International Conference on Nanomaterials; Synthesis, characterization and applications held at Mahatma Gandhi University, Kottayam, Kerala during 27-29 April 2010
7. Second International Conference on natural polymers, bio-Polymers, biomaterials, their composites, Blends, IPNs and Gels, Polyelectrolytes and Gels: Macro to Nano Scales-ICNP-2010 held at Kottayam during 24-26 September 2010
8. First International Conference on Composites and Nanocomposites- ICNC-2011 held at Mahatma Gandhi University, Kottayam during 7-9 January 2011
9. Theme meeting on Utilization of National Facility for Neutron Beam Research (NFNBR) during October 17-18, 2011 held at Bhabha Atomic Research Centre, Mumbai
10. Third International Conference on Frontiers in Nanoscience and Technology-Cochin Nan0-2011 held at Kochi during 14-17 August 2011
11. Deakin India Research Initiative (DIRI) Symposium 2011 – Frontiers in Science' held from 21-23 November, 2011 at the TERI Deakin Nano Bio Research Centre, Gurgaon, Haryana
12. First International Conference on Plasma Processing of Organic Materials and Polymers-PPOMP-2011 held at Mahatma Gandhi University, Kottayam during 25-27 November 2011
13. UGC Sponsored National Seminar on Current Developments in Nano Materials held at Catholicate College, Pathanamthitta during 7-9 December 2011.

Dr K Indulekha
International

1. Attended World Wide Telescope India Workshop at IUCAA, Pune funded by Microsoft Research, Caltech and IUCAA Sept 4 2010
2. Presented paper on 'Gas dynamical friction on clumps and open clusters' at VBT Silver Jubilee Workshop IIA Bengaluru June 28 -July 1 2011
3. Poster on "Discovery of QPO's in accretion powered pulsars" presented at 38th COSPAR Scientific Assembly 18-15 July 2010 Bremen Germany
4. Poster on "Dps in the pulse profiles of accretion powered pulsars" presented at 38th COSPAR Scientific Assembly 18-15 July 2010 Bremen Germany
5. Poster on 'Intensity and energy dependent profiles of transient HMXB pulsars GRO J1008-57, 1A 1118-61 and GX 304-1 ' presented at "The First Year of MAXI: Monitoring Variable X-ray Sources", Poster Presentations, 4th International MAXI Workshop held November 30 - December 2, 2010 in Tokyo, Japan

National

1. Poster on 'Star formation in blue compact dwarf galaxies of the local volume' presented at 29th Meeting of the Astronomical Society of India, held 23-25 February, 2011
2. Poster on 'Study of the EoS parameter for a cosmological model with Fermionic field and power-law potential' presented at 29th Meeting of the Astronomical Society of India, held 23-25 February, 2011
3. Poster on 'Dips in the pulse profiles of accretion powered pulsars' presented at 29th Meeting of the Astronomical Society of India, held 23-25 February, 2011
4. Poster on 'Broadening of pulse frequency peak in accretion powered pulsars' presented at 29th Meeting of the Astronomical Society of India, held 23-25 February, 2011
5. Poster on 'Energy dependent pulse profiles and pulse phase resolved spectroscopy of transient HMXB pulsars' presented at 29th Meeting of the Astronomical Society of India, held 23-25 February, 2011
6. Poster on 'Quasi periodic oscillations in high magnetic field accretion powered pulsars' presented at 29th Meeting of the Astronomical Society of India, held 23-25 February, 2011

State

1. Delivered Talk on 'Cosmology with Spinors' UGC sponsored National Seminar on Recent Developments in Cosmology, TKM College Kollam 2nd Nov 2011
2. Delivered Talk on 'Tensors in Physics' at Workshop on Mathematics for Astrophysics MGU Sept. 27 -Oct.1 2011
3. Delivered Talk on 'Emerging Trends in Astrophysics' at the National Seminar on "Emerging Trends in Physics" at the VTMNSS College Dhanuvachapuram 23rd Sept 2011
4. Delivered Talk on "Statistical Methods" at the Workshop on Methodology of Science -Assumption College, Changanacherri -25th Aug 2011

5. Delivered Talk on "Astronomical Questions' Mini School in Astronomy IRC Kochi & Newman College Thodupuzha May 2011

INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES

Prof(Dr. I Ibnusaud)

International level

1. Renewable resources for the syntheses of enantiomerically pure molecules related to chiral 2-Hydroxy Citric Acids 22nd International symposium on Chirality (ISCD – 2010) Sapporo, Japan, July 12-15 2010.
2. Lecture offered at summer workshop on “Chiral Molecular Determination and Analysis” June 7-9, 2010 Vanderbilt University, Nashville, USA.

National level

1. Ex-Chiral pool synthesis towards butyrolactone based molecules of agro-pharmaceuticals and functional interests: A green approach, Sasi P.V, Simimole H and Ibrahim Ibnusaud, 11th National Convention of Chemistry Teachers (NCCT-2011) & National Seminar on Emerging Trends in Green Chemistry, Dept. of Chemistry, A.N College, Patna, India, Oct.15-17, 2011
2. Ex-Chiral pool synthesis of Chiral 4-(2-Hydroxyethyl) pyrrolidine-3-ol: a potent anti-tuberculosis agent, ArshadSayed M.V, Grace Thomas and Ibrahim Ibnusaud, Medicinal Chemistry Conference on Anti-Infective Drug Discovery and Development, Dept. of Chemistry, IIT, Madras, Oct.28-29, 2011.
3. Semisynthetic route towards therapeutically active α -methylene- γ -butyrolactones, Sudheesh T.S and Ibrahim Ibnusaud, Medicinal Chemistry Conference on Anti-Infective Drug Discovery and Development, Dept. of Chemistry, IIT, Madras, Oct.28-29, 2011.
4. A modified Antibiotic Based on (2S,3S) -Tetrahydro-3- Hydroxy-5-Oxo-2,3-Furandicarboxylic Acid and 6-Aminopencillanic Acid, Surya.K and Ibrahim Ibnusaud, Medicinal Chemistry Conference on Anti-Infective Drug Discovery and Development, Dept. of Chemistry, IIT, Madras, Oct.28-29, 2011.

INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE & TECHNOLOGY

Dr. Sabu Thomas

1. International conference on Nanoscience and nanotechnology-2011, November, 12-15, 2011.
2. International conference of waste management-2011

3. 2010 October to 2010 Nov. Distinguished Professorship, Josef Stefan Institute, Slovenia.

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

1. School of Behavioural Science

Field trips, and small group projects are organized to facilitate active learning.

2. School of Indian Legal Thought

Assignment and Seminar presentation, Moot courts and Mock Trails

3. School of International Relation & Politics

The School has a learner-friendly, need-based learning system to equip the students and research scholars to meet the emerging challenges. The instructional mode, besides its information-based pattern, introduces values of theory-embeddedness, self-reflexivity 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 counselling and tutorial interfaces. While classroom 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 also has a transparent- rigorous evaluation system under the CSS. The four semester pattern of MA involves mid-semester tests and end-semester examinations, seminar presentations, course-wise assignments such as book and/or article reviews, group interfaces and submission of a dissertation at the end of the fourth semester. The two-semester pattern of MPhil involves mid-semester tests and end-semester examinations and other course assignments. MPhil scholars have to submit a dissertation at the end of the second semester in a specialised area of the discipline. The School since the introduction of the functional autonomy brought in innovation in the evaluation process of various programmes. The students are introduced to a variety of academic interfaces through which individual as well as group performances are constantly monitored and assessed.

4. School of Pedagogical Sciences

Individual assignment and seminar presentation

5. School of Pure and applied physics

Training is given to the students to become self learners who will be capable of handling new ideas of concepts of the fast advancing frontiers of science that will be part of the syllabi of tomorrow.

6. School of Tourism Studies

- Use of Audio Visual Aids like LCD Projectors, Speakers, portable mikes etc.
- Assignments- Seminars- Case Study Discussions - Tutorial- e learning- role plays in language classes (English and French), Group Discussion- Mock interviews
- Introduced Semester Plan for overall academic planning and timely execution-
- Field trips and Destination Visits

7. Department of Life-Long Learning & Extension

Education was imported through non formal media.

8. International & Inter University Centre for Nanoscience & Nanotechnology

Provision for continuous evaluation and monitoring of students progress, Conducts mid-term / semester evaluations, Student grievances regarding evaluation results are adopted

9. Advanced Centre for Environmental and Sustainable Development

- ✓ Participatory learning programme
- ✓ Supported e-learning

10. Institute for Intensive Research in Basic Sciences

Thematic learning and original research work

2.7. 2.13 Initiatives undertaken towards faculty development (NO CHANGE)

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

SCHOOL OF BIOSCIENCES

- 25 Persons from the School participated in the hands on workshop on “Molecular Phylogenetics in Microbiology” 26.9.2012-28.9.2012

SCHOOL OF COMPUTER SCIENCES

Prof. (Dr.) R. Vijayakumar

- **Organized Interface 2012**, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School. The national level seminar, one component of the event, included technical talk on “NP Complete Problems and High Performance Computing”.

Ms. Bindu V.R

- **Co-ordinated Interface 2012**, a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School. The national level seminar, one component of the event, included technical talk on “NP Complete Problems and High Performance Computing”.

Ms. Pushpalatha K.P

- Was under UGC’s Faculty Improvement Programme till July 2012.

Ms. Anuj Mohamed

- Attended UGC Sponsored SAM Workshop on “Capacity Building of Women Managers in Higher Education”, CMS College, Kottayam, April 2013.

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)
	GFATM - Geneva-		Two Crore sixty five thousand

School of Bio-Science

Faculty	Title	Funding agency	Amount (Lakhs)
PI:Dr Linu Mathew,Co-I:Dr K G Padmakumar	Barcoding and genetic diversity analysis of Clarias spp of Kerala	KSCSTE	14.7 lakhs
PI Dr.Jayachandran.K	"Safety Evaluation of the process of Chlorination in drinking water system with specific reference to Chlorination derived By-products".	UGC	9,60,000/-
PI: Dr. Jisha M.S.	Molecular Basis of Sodium Dodecyl Sulphate (SDS) Bioremediation & Bioreactor Designing .	KSCSTE	13,50,000 /-
PI : Dr.Keerthi T R	"Production, Purification and Characterization of antagonistic principles of Potential Aquaculture probiotics"	UGC	10.78lakhs
PI : Dr.Keerthi T R	Protective effect of Elephantopus scaber Linn. A traditional medicinal plant on hepatic fibrosis and hepatocellular carcinoma	KSCSTE	
PI: Dr Prakash Kumar	In vitro studies on inhibition of eicosanoid metabolism for control of arthritis by extracts of stem of Tinospora cordifolia	Department of Biotechnology, New Delhi	21.17 lakh
P.I: Dr Prakash Kumar B, Co-I: Dr Aravindakumar C T	Evaluation of methanolic extracts Elephantopus scaber for inhibitors of 5-lipoxygenase (5-LOX) and cyclooxygenase-2 (COX-2)	Kerala State Council for Science Technology and Environment, Thiruvananthapuram	15.72 lakhs

School of Chemical Science

Faculty	Title	Funding agency	Amount (Lakhs)

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School of Computer Science : NIL

School of Environmental Science

Faculty	Title	Funding agency	Amount (Lakhs)
Dr.C.T. Aravindakumar	Pulse radiolysis of biomolecules	Indo-French ARCUS Project with University of Paris, France	20 lakhs
Dr.C.T. Aravindakumar	Radiation and photochemical studies of chitosan modified polycyclic aromatic hydrocarbons	DAE-BRNS	15 lakhs
Dr.C.T. Aravindakumar	Radiation Induced Modification of Some Pyrimidine Nucleosides and Nucleotides	DAE-Inter University Centre, Kolkata	3.5 lakhs
Dr.E.V.Ramasamy	Chemical transformation and bioaccumulation of mercury in Vembanad wetland and Cochin near shore areas',	MoES	64.39 Lakhs
Dr.E.V.Ramasamy	National vegetation carbon pool assessment	Department of Space, GOI	5.12 lakhs

School of Gandhian Thought and Development Studies : NIL

School of International Relation & Politics

Faculty	Title	Funding agency
K.M. Seethi	"Health, Environment and Human Security: Impact of Pesticide Use in Kerala "(2009-2011)	University Grants Commission (UGC)
	"Statelessness, Citizenship and Human Security: A Study on the Repatriated Tamils in Kerala" (2011-13)	ICSSR
Raju K. Thadikkaran	"Global Intellectual Property Rights Regime and India: Challenges and Opportunities in the Protection of Intellectual Property Related to	University Grants Commission

	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	University Grants Commission (UGC)

SCHOOL OF LETTERS

Faculty	Title	Funding agency	Amount (Lakhs)
SCHOOL OF LETTERS	“Cultural Mapping and Repertory Theatre”.	Kerala State Planning Board	Rs. 25 Lakh

School of Management and Business Studies : NIL

SCHOOL PEDAGOGICAL SCIENCES

Faculty	Title	Funding agency	Amount (Lakhs)
Dr. Celine Pereira, Principle Investigator & Dr. Minikutty A., Co-Investigator	Impact of Cluster training in the teaching learning process in the Schools of Kerala		

School of Pure and applied physics

Faculty	Title	Funding agency	Amount (Lakhs)
Prof. N V Unnikrishnan	Preparation of novel planar optical waveguides via ion-exchange/sol-gel route and their characterization 2011-2014	KSCSTE	11.98 lakhs
Prof. N V Unnikrishnan	UGC SAP :DRS Department Research Scheme 2009-2014	UGC	65.65 L
Prof. N V Unnikrishnan	DST FIST Department Project 2010-2015	DST	40 L

School of Social Sciences : NIL

School of Tourism Studies : NIL**International and Inter University Centre for Nanoscience and Nanotechnology**

Faculty	Title	Funding agency	Amount (Lakhs)
Prof (Dr.) Sabu Thomas	Development of high performance butyl rubber and chloro-butyl rubber nanocomposites for barrier application	DST, New Delhi	Rs. 37, 65,000/-
Prof (Dr.) Sabu Thomas	Nano structured self assembled polymer blend systems from epoxy resin/block copolymer systems for super toughness	DST, New Delhi	Rs. 95, 42,000/-
Prof (Dr.) Sabu Thomas	Nano materials: Synthesis and characterization and applications	DST, New Delhi	Rs. 67, 45,000/-
Prof (Dr.) Sabu Thomas	Design and development of butyl and chlorobutyl nanocomposite membranes for barrier applications	UGC-DAE Council of Scientific Research-Kolkata Centre	Rs. 35,00,000 /-
Prof (Dr.) Sabu Thomas	Development of engineered nano-structured materials for high performance applications	DST, New Delhi	Rs. 3,66,99,600/-
Prof (Dr.) Sabu Thomas	Carbon nanotube filled natural rubber nanocomposites	UGC-DAE Council of Scientific Research-Kalpakkam Centre	Rs. 4,00,000/ -
Prof (Dr.) Sabu Thomas	Development of nanocomposites for aerospace, defence and automotive applications	CSTE	Rs. 30,00,000 /-
Prof (Dr.) Sabu Thomas	Development of high performance nanocomposites for tyre engineering	DST, New Delhi	Rs. 69, 60,000/-

INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES

Faculty	Title	Funding agency	Amount (Lakhs)
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Prof . Ibmusaad	President's Mission Project, Govt. of Kerala (2008). Project No.: IR/S1/CU/01/2007(ongoing)	DST Inter University NMR Facility (IRPHA Scheme)	
Prof . Ibmusaad	Asymmetric Transformations Employing (-Hydroxycitric acid) No.: SP/S1/G-07/95/PR (Completed)	DST (Govt. of India) Project	
Prof . Ibmusaad	EPC Synthesis Using Naturally Occurring -Butyrolactones: First Synthesis of Funebrine, Funebral and PLA ₂ Inhibitors Cinatrin C ₂ , C ₃ ; Short and Practical Synthesis of flavor Components of aged Alcoholic Beverages, No.: SR/S1/OC-47/2003,(completed)	DST, Govt. of IndiaProject	
Prof . Ibmusaad	A chiral pool protocol towards the synthesis of molecules for chiral discrimination . No: SR/S1/OC-54/2007(completed)	DST, Govt. of IndiaProject	

3.3 Minor Projects

Faculty	Title	Funding agency	Amount (Lakhs)
PI: Dr. Anie Y, Co-I: Mrs. Resmi S S, School of Bio Science	Chemotactic response of human Phagocytic cells (Polymorphonuclear leukocytes and monocytes) in tuberculosis patients	University Grants Commission	1.84 lakhs
PI Dr.Jayachandran. School of Bio Science	Demonstration and Extension of Vermicomposting technique for the Solid Waste Treatment to Athirumpuzha Gramapanchayath	BIRD Project	
Dr. P S Radhakrishnan School of Letters	Socio-cultural History of Popular Novel in Malayalam	UGC	Rs.80,000 /-
PI Dr S Antony School of Pure and applied Physics	Role macro instabilities in Solar Coronal Heating", by UGC	UGC	1 lakh
Dr. Jaya Jaise School of Pedagogical Sciences	Minor Research Projects in Education: "Analysis of Performance-based Assessment of English: A Study among Secondary School Teachers of Kerala"	University Grants Commission	

School of Tourism Studies	'Evaluation of Responsible Tourism scheme of Kerala Tourism'	KITTS	Rs. 3 Lakhs
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3.4 Details of Research Publications

SCHOOL OF BEHAVIOURAL SCIENCE

Dr. Sukumaran P S

1. Sukumaran, P.S. (2011). Analysis of the Gap between limited Expertise and the Heterogeneous Needs of children with Mental Retardation in Inclusive Education. Proceedings of the National Seminar on Inclusive Education of children with Mental Retardation: an Introspection. Ramakrishna Mission Vivekananda University, Coimbatore.
2. Sukumaran, P.S., and Maya P.M. (2011). Attitude of parents towards their children with Mental Retardation. Journal of Disability Management and Special Education, Vol.1, No.1, pp. 21-27.
3. Sukumaran, P.S., and Remya K.R. (2011). Attitude of Special Teachers towards Integrated Education of children with Mental Retardation. Vol.1, No.1, pp. 25-34.
4. Sukumaran, P. S., and Sreedevi, T.R.(2010). Facilitating factors of coping in mothers of children with mental retardation. The Nursing Journal of India, Vol.CI,No.10, pp. 236-238.

Dr. Baburaj P.T

1. Published one article in the UGC sponsored International Seminar at CTE Programme, Trivandrum .
2. Attended and presented a paper on the two day International Conference on Inclusion understanding children with Disabilities to build 'inclusive communities, on January 11 & 12, 2011.
3. Presented and Participated in the one day National Seminar on "Management of Learning Disabilities" Organized by School of Behavioural Sciences on 22nd March 2011.

Dr. K M Mustaffa:

1. Title publication: Role of distance education in special education.
 - Journal name, number, year and digital object identifier(DOI) number: Empowerment of youths, February 2011.
 - International/National: International conference paper
 - Publisher with ISBN: Bharathidasan University , 978-81-908078-89- 7=6.

- Web address of the journal : www.bdu.ac.in
2. Title publication: Dr. K M Mustaffa, Aiswarya M, Inclusive education
A practical oriented approach.
- Journal name, number, year and digital object identifier (DOI) number: Learning disabilities. No child left behind, February 2011.
 - International/National: International.
 - Publisher with ISBN: St.Thomas college of teacher education 97881-927201-1.
 - Web address of the journal : www.steepala.info
3. Title publication: The role of self employment in the empowerment of differently abled youths
- Journal name, number, year and digital object identifier(DOI) number: Empowerment of youths, February 2011
 - International/National: International
 - Publisher with ISBN: Excel Indus publishers, 978-93-80697-89-8
 - Web address of the journal : www.Excelpublishers.com
4. Title publication: Dr. K M Mustaffa Organization and functioning of school of hearing impaired. A brief discussion
- Journal name, number, year and digital object identifier(DOI) number: Innovation and research in education, volume I, January 2011
 - International/National: International
 - Publisher with ISSN University of Calicut- 2231-4148
 - Web address of the journal : www.universityofcalicut.Info

International , Peer reviewed Journal

1. B Sathian, J Sreedharan, SN Baboo, K Sharan, ES Abhilash, **E Rajesh**. Relevance of Sample Size Determination in Medical Research. Nepal Journal of Epidemiology 2010, 1 (1), 4-10.
2. B Sathian, J Sreedharan, K Sharan, SN Baboo, R Chawla, N Chandrasekharan, **E Rajesh**, SB Dixit. Statistical Modelling Technique in Forecasting of Palliative Oncotherapy Load in Hospitals. Nepal Journal of Epidemiology 2010, 1 (1), 38-43.
3. B Sathian, J Sreedharan, A Mittal, SN Baboo, N Chandrasekharan, ES Abhilash, **E Rajesh**. Statistical Modelling and Forecasting of Reported HIV Cases in Nepal. Nepal Journal of Epidemiology 2011, 1 (3), 106-110.
4. B Sathian, J Sreedharan, N Chandrasekharan, S Devkota, **E Rajesh**, A Mittal. P 1-322 Statistical modelling in the prediction of kala-azar in Nepal. Journal of Epidemiology and Community Health 2011, 65. **[Impact Factor 3.192]**
5. B Sathian, J Sreedharan, K Sharan, S Baboo, N Chandrasekharan, **E Rajesh**. P1-321 Statistical modelling technique in forecasting of palliative oncotherapy load in hospitals. Journal of Epidemiology and Community Health 2011, 65 (1), 156. **[Impact Factor 3.192]**
6. B Sathian, R Babu, J Sreedharan, N Bhat, N Chandrasekharan, **E Rajesh**. SP 3-69 Gender, ethnic and food intake differences in the occurrence of overweight in Indian, Nepalese and Srilankan medical students. Journal of Epidemiology and Community Health 2011, 65. **[Impact Factor 3.192]**
7. Sathian. B, Sreedharan.J, Mittal. A, Chandrasekharan. N, Baboo.N.S, Abhilash.E.S, Rajesh.E, Dixit. S.B. Case Control Studies in Medical Research, Nepal Journal of Epidemiology, 2011, 1(3),77-80.

SCHOOL OF BIO-SCIENCE

A. Peer Review Journals

Dr. Jisha M.S

1. Susmi T.S, Sharrel Rebello, **Jisha M.S** and P.M.Sherief. (2010). Toxic Effects of Sodium Dodecyl Sulphate on Grass Carp *Ctenopharyngodon idella*. Journal of Fishery technology, 47(2) :157-162 (**NAAS Rating 4.87**)

Dr. Radhakrishnan E K

2. **Radhakrishnan E K**, Rintu T Varghese and E V Soniya, Unusual intron at the second exon of the Type III polyketide synthase gene of *Alpinia calcarata* Rosc. *Gene. and Mol. Bio.* 2010, 33(1): 141-145.
3. A chapter entitled 'Polyphenol oxidase and its applications " in the book "Chemistry and Biotechnology of Phenols" published by Ane Books, New Delhi. 2010. Microbial degradation of natural rubber latex and its application in the treatment of latex centrifugation effluent - Elizabeth Cherian, 2010

Dr. Jayachandran K

4. Production of highly glucose tolerant beta glucosidase by *Paecilomyces variotii* MG3; optimization of fermentation conditions using Plackett-Burman and Box-Behnken experimental designs. Joseph Job, Rajeev K Sukumaran, Jayachandran K. 26,1385-1391. World Journal of Microbiology and Biotechnology, 2010.
5. Microbial degradation of natural rubber latex by a newly isolated *Bacillus Pantothenticus* isolated from soil. Elizabeth Cherian, and Jayachandran K, International journal of Environmental Research.3, 4,599-604., 2010
6. Biological treatment of natural rubber latex centrifugation effluent using activated sludge system enriched with *Bacillus* sp. SBS25. Elizabeth Cherian, and Jayachandran K, International Journal of Environmental Studies, 67,5,725-733, 2010

Dr. Harikumar Nair. R

1. Ajitha kumari.R, Shashidar.S and Harikumar Nair, R. Oxidative stress and lung functions in diabetic mellitus. Biomedicine. 2010

SCHOOL OF CHEMICAL SCIENCES

A. Peer Review Journals

Prof(Dr). Sabu Thomas

1. **Dynamics of Phase Separation in Poly(acrylonitrile-butadiene-styrene)-Modified Epoxy/DDS System: Kinetics and Viscoelastic Effects** Jyotishkumar, P., Ozdilek, C., Moldenaers, P., Sinturel, C., Janke, A., Pionteck, J., & Thomas, S. (2010). *The Journal of Physical Chemistry B*, 114(42), 13271-13281.
2. **Morphology and Mechanical Properties of Normal Blends and In-Situ Microfibrillar Composites from Low-Density Polyethylene and Poly(ethylene terephthalate).** Jayanarayanan, K., Ravichandran, A., Rajendran, D., Sivathanupillai, M., Venkatesan, A., Thomas, S., & Joseph, K. (2010). *Polymer-Plastics Technology and Engineering*, 49(5), 442-448.
3. **Morphology, Dynamic Mechanical, Thermal, and Crystallization Behaviors of Poly(trimethylene terephthalate)/Polycarbonate Blends**, Aravind, I., Boumod, A., Grohens, Y., & Thomas, S. (2010). *Industrial & Engineering Chemistry Research*, 49(8), 3873-3882.
4. **Isolation of nanocellulose from pineapple leaf fibres by steam explosion** Cherian, B. M., Leão, A. L., de Souza, S. F., Thomas, S., Pothan, L. A., & Kottaisamy, M. (2010). *Carbohydrate Polymers*, 81(3), 720-725.
5. **Main chain and segmental dynamics of semi interpenetrating polymer networks based on polyisoprene and poly(methyl methacrylate)** John, J., Klepac, D., Didović, M., Sandesh, C. J., Liu, Y., Raju, K. V. S. N., ... & Thomas, S. (2010). *Polymer*, 51(11), 2390-2402
6. **Influence of polarity parameters on the mechanical properties of composites from polypropylene fiber and short banana fiber**, Paul, S. A., Joseph, K., Mathew, G. G., Pothen, L. A., & Thomas, S. (2010). *Composites Part A: Applied Science and Manufacturing*, 41(10), 1380-1387.
7. **Ionic conductivity and interfacial properties of nanochitin-incorporated polyethylene oxide-LiN (C₂F₅SO₂)₂ polymer electrolytes** Angulakshmi, N., Kumar, T. P., Thomas, S., & Stephan, A. M. (2010). *Electrochimica Acta*, 55(4), 1401-1406.
8. **Dynamic mechanical properties of oil palm microfibril-reinforced natural rubber composites** Joseph, S., Appukuttan, S. P., Kenny, J. M., Puglia, D., Thomas, S., & Joseph, K. (2010). *Journal of applied polymer science*, 117(3), 1298-1308.
9. **Viscoelastic and thermal properties of woven-sisal-fabric-reinforced natural-rubber biocomposites** Jacob, M., Jose, J., Jose, S., Varughese, K. T., & Thomas, S. (2010). *Journal of applied polymer science*, 117(1), 614-621
10. **The role of interface modification on thermal degradation and crystallization behavior of composites from commingled polypropylene fiber and banana fiber**, Paul, S. A., Oommen, C., Joseph, K., Mathew, G., & Thomas, S. (2010). *Polymer Composites*, 31(6), 1113-1123.

11. **Poly(ethylene-co-vinyl acetate)/calcium phosphate nanocomposites: Thermo mechanical and gas permeability measurements**, Selvin, T. P., Seno, J., Murukan, B., Santhosh, A. A., Sabu, T., Weimin, Y., & Sri, B. (2010). *Polymer Composites*, 31(6), 1011-1019.
12. **Preparation of polypropylene fiber/banana fiber composites by novel commingling method**, Paul, S. A., Joseph, K., Mathew, G., Pothen, L. A., & Thomas, S. (2010). *Polymer Composites*, 31(5), 816-824.
13. **Melt rheology of HDPE/EVA blends: The effects of blend ratio, compatibilization, and dynamic vulcanization** John, B., Varughese, K. T., Oommen, Z., & Thomas, S. (2010). *Polymer Engineering & Science*, 50(4), 665-676.
14. **Dynamic mechanical analysis of oil palm microfibril-reinforced acrylonitrile butadiene rubber composites**, Joseph, S., Sreekumar, P. A., Kenny, J. M., Puglia, D., Thomas, S., & Joseph, K. (2010). *Polymer Composites*, 31(2), 236.
15. **Dynamic mechanical analysis of novel composites from commingled polypropylene fiber and banana fiber** Paul, S. A., Sinturel, C., Joseph, K., Mathew, G. D., Pothen, L. A., & Thomas, S. (2010). *Polymer Engineering & Science*, 50(2), 384-395.
16. **Viscoelastic and thermal properties of woven-sisal-fabric-reinforced natural-rubber biocomposites**, Jacob, M., Jose, J., Jose, S., Varughese, K. T., & Thomas, S. (2010). *Journal of applied polymer science*, 117(1), 614-621.
17. **Rheology and morphology of polytrimethylene terephthalate/ethylene propylene diene monomer blends in the presence and absence of a reactive compatibilizer** Aravind, I., Jose, S., Ahn, K. H., & Thomas, S. (2010). *Polymer Engineering & Science*, 50(10), 1945-1955.
18. **Structural and mechanical properties of YBCO-polystyrene composites** Abraham, R., Thomas, P., Kuryan, S., Issac, J., Nandakumar, K., & Thomas, S. (2010). *Journal of applied polymer science*, 118(2), 1027-1041.
19. **Morphology, mechanical and thermal properties of nano-structured full IPNs based on polyisoprene and PMMA** John, J., Suriyakala, R., Thomas, S., Mendez, J. M., Pius, A., & Thomas, S. (2010). *Journal of materials science*, 45(11), 2892-2901.
20. **Effect of sequence of nanoclay addition in TPU/PP blends: thermomechanical properties** Kannan, M., Bhagawan, S. S., Jose, T., Thomas, S., & Joseph, K. (2010). *Journal of materials science*, 45(4), 1078-1085.
21. **Epoxy resin/liquid natural rubber system: secondary phase separation and its impact on mechanical properties**, Mathew, V.

- S., Sinturel, C., George, S. C., & Thomas, S. (2010). *Journal of materials science*, 45(7), 1769-1781
22. **Transport of methyl methacrylate monomer through natural rubber**, John, J., Kunchandy, S., Kumar, A., Pius, A., & Thomas, S. (2010). *Journal of materials science*, 45(2), 409-417.
 23. **In situ microfibrillar blends and composites of polypropylene and poly (ethylene terephthalate): Morphology and thermal properties**, Jayanarayanan, K., Thomas, S., & Joseph, K. (2011). *Journal of polymer research*, 18(1), 1-11.
 24. **Preparation of Bionanomaterials and their Polymer Nanocomposites from Waste and Biomass** Visakh, P. M., & Thomas, S. (2010). *Waste and Biomass Valorization*, 1(1), 121-134.
 25. **Compatibilizing Action of a Poly(styrene-butadiene) Triblock Co-polymer in ABS/PET-G Blends**, Joseph, S., Focke, W. W., & Thomas, S. (2010). *Composite Interfaces*, 17(2-3), 175-196
 26. **Preparation and characterization of nanoclay-filled polyurethane/polypropylene blends** Kannan, M., Bhagawan, S. S., Jose, T., Thomas, S., & Joseph, K. (2010). *Polymer Engineering & Science*, 50(9), 1878-1886.
 27. **Reactive compatibilization of polymer blends**, Indose Aravind and Sabu Thomas, *Society of Plastic Engineers, Plastics Research Online (2010) DOI: 10.2417/spepro.003188*
 28. **Recent Advances in Green Composites** Recent Advances in Green Composites, Gejo, G., Kuruvilla, J., Boudenne, A., & Sabu, T. (2010, March). In *Key Engineering Materials* (Vol. 425, pp. 107-166)
 29. **Design, Development and Testing of Rubber Nanocomposites**, Saritha, A., Kuruvilla, J., & Sabu, T. (2010, March). In *Key Engineering Materials* (Vol. 425, pp. 61-93).
 30. **High-performance nanocomposites based on acrylonitrile-butadiene rubber with fillers of different particle size: Mechanical and morphological studies** Thomas, P. C., Tomlal Jose, E., Selvin Thomas, P., Thomas, S., & Joseph, K. (2010). *Polymer Composites*, 31(9), 1515-1524.
 31. **Environmental Degradation of Ramie Fibre Reinforced Biocomposites** Krasowska, K., Brzeska, J., Rutkowska, M., Janik, H., Sreekala, M. S., Goda, K., & Sabu, T. *Polish J. Environ. Stud*(2010) 31 (9) 1515-1524.
 32. **Poly(ethylene-co-vinyl acetate)/calcium phosphate nanocomposites: Thermo mechanical and gas permeability measurements** Selvin, T. P., Seno, J., Murukan, B., Santhosh, A. A., Sabu, T., Weimin, Y., & Sri, B. (2010). *Polymer Composites*, 31(6), 1011-1019.

33. **Dynamic Mechanical and Dielectric Behavior of Banana/glass Hybrid Fiber Reinforced Polyester Composites**, Pothan, L. A., George, C. N., John, M. J., & Thomas, S. (2010). *Journal of Reinforced Plastics and Composites*, 29(8), 1131-1145.

SCHOOL OF COMPUTER SCIENCES

Dr. R. Vijayakumar

Conferences Proceedings:

National

- 1 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.
- 2 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
- 3 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
- 4 Muhamed Ilyas, “Location privacy in location based services”, National conference on computing and Communication (NCCC 2011), SOCS, MG University, May 2011
- 5 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

International

1. K K Benazir, R Vijayakumar, “Robust Enhanced Algorithm for Fingerprints”, International Conference on Global Computing (ICGC), March, 2011 ID No: Comp-13.

SCHOOL OF ENVIRONMENTAL SCIENCES

A. Peer Review Journals

Dr. Mahesh Mohan

1. **Mahesh Mohan**, Deepa M. and Thomas A.P. (2010) Comparison of metal accumulation in the selected fishes from two sites of Vembanad Backwaters, Kerala, India. *Journal of Environmental Science and Engineering*. 52(3): 193-198. **NEERI**
2. Narendra Babu K., Omana P.K. and **Mahesh Mohan**. (June 2010) Water and sediment quality of Ashtamudi estuary, a Ramsar site, southwest

coast of India - a statistical appraisal. *Environmental Monitoring and Assessment*, 165:1, pp: 307-319 Springer.

3. Ajaykumar B., **Mahesh Mohan**, Shylesh Chandran M.S., Jayasooryan K.K., Unni K.S. and Thomas A.P. (2010) Mechanism and geochemical implications to the Late Holocene organic carbon burial event- an example from Southwest coast of India, *Journal Environmental Earth Sciences*, **Springer**, 59(7): 1409-1416. DOI 10.1007/s12665-009-0127-0.

Dr. C T. Aravindakumar

1. V.M. Manoj, Usha K. Aravind, Hari Mohan, C, T. Aravindakumar Reaction of hydroxyl radicals with S-nitrosothiols: Formation of thiyl radical (RS•) as the intermediate, *Res. Chem. Intermed.*, **2011**, **37**, 1113-1122
2. U.K. Aravind, B. George, M.S. Baburaj, S. Thomas, A.P. Thomas, C.T. Aravindakumar, Treatment of industrial effluents using polyelectrolyte membranes, *Desalination*, **2010**, 252, 27–32.

Dr. Sylas V.P

1. Bull C., Tang C. and **Sylas V.P.** (2010). Rainwater harvesting in an Indian Village. World Environmental and Water Resource Congress. ASCE Publication. 768 -775pp.

Dr. E V Ramaswamy

1. Bindu,T., Sumi, M.M. and **E.V. Ramasamy** (2010). Decontamination of water polluted by heavy metals with Taro (*Colocasia esculenta*) cultured in a hydroponic NFT system. *Environmentalist (Now Environment systems and decision)*, (**Springer**), **30**, pp. 35-44. March 2010.
2. Anitha, K, Shijo Joseph , Robert John Chandran d, **E.V. Ramasamy**, S. Narendra Prasad (2010).Tree species diversity and community composition in a human-dominated tropical forest of Western Ghats biodiversity hotspot, India , *Ecological Complexity* (**Elsevier**), **7** , 217–224. June 2010.
3. Mahesh Mohan, M.S. Shylesh Chandran, **E.V.Ramasamy**. Vulnerable earthworm species identified from Nilgiri Biosphere Reserve, *International Journal of Zoological Research*, 7(6): 410-413.June 2011

Conference proceedings

Dr. Mahesh Mohan and Dr. E V Ramaswamy

1. Shylesh Chandran M.S., Jayasooryan K.K., Subin K. Jose, **Mahesh Mohan** and **E.V.Ramasamy** (2010) Mercury in the Core Sediment of Vembanad Backwater – An Implication Towards Anthropogenic Contamination, Lake - 2010, IISc, Bangalore.

2. M.S. Shylesh Chandran, **Mahesh Mohan** and **E.V. Ramasamy** (2010). Earthworm species diversity at Nilgiri Biosphere Reserve, International Conference on Biodiversity, IIT, Kharagapur.
3. **Mahesh M.**, Jayasooryan, K.K., Shylesh C.M.S., and **Ramasamy E.V.** (2010). Impact of climate change on the transformation and transport of mercury in the environment. International Conference on Climate Change and Developing Countries, Kottayam
4. **Mahesh M.**, Jayasooryan, K.K., Shylesh C.M.S., Subin, J. and **Ramasamy E.V.** (2010) Mercury in water and sediments of Cochin backwaters, Kerala. Indian Science Congress, January 2010, Trivandrum.
5. Shylesh Chandran M.S., Jayasooryan K.K., Subin K. Jose, **Mahesh Mohan** and **E.V.Ramasamy** Mercury in the Core Sediment of Vembanad Backwater – An Implication Towards Anthropogenic Contamination, Lake – 2010 December 2010.

Dr. C T. Aravindakumar

1. T.VDivyalakshmi, U. K. Aravind, **C. T. Aravindakumar**, Membranes: Science and Applications. Proc.-National Seminar on New Frontiers in Chemical science and Technology, Mar18-19, 2011
2. Prasanthkumar, K. P.; Suresh, C. H.; **Aravindakumar, C. T.** Energetics of the reaction of hydroxyl radical with uracil using DFT method, *Proc.- Trombay Symposium on Radiation and Photochemistry (TSRP-2010)*, Lonavala, September 14-17, 2010, pp 155.
3. Prasanthkumar, K. P.; Suresh, C. H.; **Aravindakumar, C. T.** The reaction of hydroxyl radical with 2-thiouracil: A pulse radiolysis and DFT study, *Proc.- Trombay Symposium on Radiation and Photochemistry (TSRP-2010)*, Lonavala, September 14-17, 2010, pp 157.
4. S. Sreedhanya, U. K. Aravind and **C. T. Aravindakumar** (2010), Fluorescence Studies on the Interaction of Ovalbumin and Sulphasalazine, *Proceedings of APSRC- Trombay Symposium on Radiation and Photochemistry 2010*, PC-139, p-440.

Dr. Sylas V.P

1. B. Ajaykumar, Baiju C.K., Mahesh Mohan, **V.P. Sylas**, M.S.S. Chandran and P.S. Rakesh (2011). Soil piping phenomenon: examples from Idukki district, Kerala, India. In: Proceedings of Disaster, Risk and Vulnerability Conference, March 12-14, Mahatma Gandhi University, Kottayam, Kerala. p 133-139.
2. **Sylas V. P.**, John C. M, Prasanth Narayanan S., Unni K. S. and A. P. Thomas (2010). *Cabombo caroliniana*, an invasive aquatic plant in Kuttanad wetland ecosystem. In *Proceedings of 19th Kerala Science Congress*, January 19-31, Kollam. Kerala State Council for Science

Technology and Environment and Kerala Forest Research Institute, Peechi, Thrissur, Kerala. p 611 – 612.

Dr. E V Ramaswamy

1. K K Jayasooryan, C M S Shylesh, M Mahesh and **E V Ramasamy**. Community health risk assessment on mercury contaminated fish consumption at Cochin backwaters. In: Applied Disaster Research – Disaster, Risk and Vulnerability Conference 2011. A.P.Pradeepkumar, F.J. Behr, E.V.Ramasamy (Eds.) Proceedings of Disaster, Risk and Vulnerability Conference, March 12-14, 2011, Mahatma Gandhi University, Kottayam. P.267
2. Padma P., **E.V. Ramasamy**, Muralivallabhan, T.V., and A.P. Thomas (2010). Sustainable energy consumption: Developments and constraints. Proceedings of the International conference on “The Green Path to Sustainability: Prospects and Challenges”, Organized by Assumption College, Changanassery, Kottayam, 395-398pp.

SCHOOL OF INDIAN LEGAL THOUGHT

A. Peer Review Journals

Dr. George Joseph

1. Mediation: An 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. Protection of Minority Rights-Its Constitutional Philosophy, Emerging Trends and New Challenges. (Kerala University Journal of Legal Studies vol.4 (2011), p.123-142

SCHOOL OF INTERNATIONAL RELATIONS AND POLITICS

A. Peer Review Journals

K.M. Seethi

1. K.M. Seethi and K.R. Singh (eds.) (2010): *Coastal Security: Needed A New Look*, Kottayam: K.P.S. Menon Chair for Diplomatic Studies.
2. K.M Seethi and Reghunathan M. (2011): “Human Security and Health: Emerging Concerns,” *Indian Journal of Politics and International Relations*, 2(4), June-December.
3. K.M Seethi (2010): Beyond Regions: Political Economy of India’s Trans-South Asian Engagements,” *South Asian Journal of Diplomacy*, 1(1).
4. K.M Seethi (2010): “West is West: New American Protectionism and the Indian IT Sector,” *Mainstream*, XLVIII (46): 6 November.

5. K.M Seethi and P.M. Joshy (2010 "Interrogating Security: The Hindu Right and the nuclear Question," *South Asian Journal of Diplomacy*, 1(1) 2010.
6. K.M Seethi (2010) "State, Health and Human Security," *Working Paper-1*, Centre for Cross National Communication in South Asia, SIRP/MGU, Kottayam.
7. 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.
8. K.M. Seethi, "Sufism and the Contemporary Challenges of Islam in South Asia," *South Asian Journal of Diplomacy*, 1(1) 2011.
9. K.M. Seethi "Social Sciences in Transition: Value-Rationality beyond Rigid Boundaries," *Social Science Perspectives*, March-June 2011.
10. K.M. Seethi "Obama's Hot Feeler Triggers More Confusion," *Countercurrents*, 21 May 2011.
11. K.M. Seethi "The Perils of Endosulfan," *Economic Times*, 26 April 2011.
12. K.M. Seethi "Endosulfan: Endgames in Geneva and New Delhi," *Countercurrents*, 24 April 2011.

A.M. Thomas

1. "The Armenian Genocide Revisited: Probing the Extent of Turkish Involvement," *South Asian Journal of Diplomacy* 2011(Kottayam).

Girish Kumar R

1. **Girish Kumar R** India and WTO Jurisprudence: Scope of Distributive Justice", *South Asian Journal of Diplomacy*, Vol.2, 2011
2. **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
3. Girish Kumar R (2010): *WTO and Globalisation of Intellectual Property Rights*, ISBN No.978-81-7831-236-1, Manak Publications, Delhi.
4. Girish Kumar R(2010): *WTO and Developing Countries: India at Dispute Settlement Mechanism* ISBN 978-81-910909-0-1, Centre for Trade, Development and Governance, Mahatma Gandhi University.

C Vinodan

1. **Vinodan, Shibu M. George** (2011), Renewable Energy Development in India, *Journal of Parliamentary Studies*, Vol.2, Issue 1.
2. **Vinodan**, (2011), The Rise of Asia and China's New Energy Policy, *South Asian Journal of Diplomacy*, Vol. 2, No. 2.
3. **C.Vinodan** (2011), Terrorism and Nuclear Security South Asia: The Case of Pakistan, *International Journal of South Asian Studies*, Vol. 4, No. 2.

Raju K. Thadikkaran

1. **Raju K. Thadikkaran and G.V.C. Naidu** (2011): *China, India and Pakistan Imbroglia: Rhetoric and Reality*, Mathrubhumi Year Book.

Bijulal M.V

1. **Bijulal M.V** "GCC Countries: Emerging Scenario After Migrant Labour Unrest" in **Contemporary West Asia: Politics and Development** Alam Anwar (Ed.) , New Century Publications , New Delhi, 2010
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3. **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

Dimpi V.Divakaran

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SCHOOL OF LETTERS : Dr.P S Radhakrishnan

Title with page nos.	Journal	ISSN/ISBN No.	No.of co-authors	Whether you are the main author
Janapriya Sahithyathe	Malayalam Research	ISSN 0974-1984	Single	Yes

Manassilakkuka P.941-952	Journal			
Neelakoel: Desakalpanayude Rashtreeyam P.77-84	Kerala Bhasha Institute Research Journal	-	Single	Yes
Viswasichalum Illenkilum P.29-34	Grandhalokam (Journal of State Library council)	-	Single	Yes
Vimarsanathile Bahujanavum Bahuvachanavum P.22-26	Grandhalokam (Journal of State Library council)	-	Single	Yes
Kavyanadakam – Rangavum Aparangavum P.82-87	Sahityaloikam (Journal of Kerala Sahitya Academy)		Single	Yes
Chalachitra Padanangal	Malayalam research Journal	ISSN 0974-1984	Single	Issue Editor

SCHOOL OF MANAGEMENT & BUSINESS STUDIES

Dr Johney Johnson

1. Retail Patronage behaviour and Shopper Segmentation : A Study among Shoppers of Organised Retailers-VILAKSHAN- XIMB Journal of Management.ISSN 0973-1954
2. Retail Patronage Behaviour and Shopper segmentation in an evolving market : WASET – Academic Science Research. **ISSN 2070-3724**

Dr Siby Zacharias

1. “Akshaya: Empowerment through E-literacy – A Case Study”, **International Conference** on " Challenges to Inclusive Growth in the Emerging Economies" December 15 -17, 2010, **IIM Ahmedabad.**
2. “The differential effect of Price and Premium Promotion on Sources of Consumer based Brand Equity on Rural Market”, **International Conference on rural Markets(ICRM 2010), Mahatma Gandhi University, Kottayam,29-30 November, 2010.**
3. “A Study on the Customer Loyalty and Stores Patronage in Relation to Organisational retailing in India with special reference to Kerala” **International Conference on rural Markets(ICRM 2010), Mahatma Gandhi University, Kottayam,29-30 November,2010.**

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5. "Inclusive Management Education through Collaborative Learning; A Case Study", **International Conference on Higher Education (ICMGU 2010)**, **Mahatma Gandhi University**, 8-10 December 2010, published by **MACMILLIAN India Ltd**.
6. "The differential effect of Price and Premium Promotion on Sources of Consumer based Brand Equity", **4th IIMA International conference on Marketing in Emerging Economies**, January 5-7, 2011, **IIM Ahmedabad**
7. "Industry Needs and Academia Offers: A Pedagogical Approach", UGC sponsored **National Conference on Human Resources Practices**, 24th January 2011, **BIMS, S.B. College, Changanacherry**.

SCHOOL OF PEDAGOGICAL SCIENCES

Dr Celine Pereira

1. Stimulating Linguistic Aesthetic and Objectified Pre-reading skills of Pre-Schoolers – **Indian Educational Review**, January 2014, Vol. 46: No. 1, p.64-71, ISSN 0972-561X.
2. Vocational Skill Attainment of Orthopaedically handicapped adolescents: Impact of Socio Psychological factors – **Studies in Education**. Jan. 2010, Vol. 27: No.1, p.1-5
3. Enhancing retention ability of learning disabled students in mainstreamed classrooms – **Edufocus**, June 2010, Vol.4: No.1, p.5-7.
4. Reflective thinking strategy vs. creativity among secondary school students, **Pedagogics**, Sep. 2010, Vol. VIII: No.1, p. 42-44.
5. Educational Renewal: The Role of Bhagavad Gita in Strengthening the personality of an individual- **Edufocus**, Dec. 2010, Vol. 4: No.2, p. 5-9.

Dr. Jaya Jaise

Title of Publication	Name of Journal	ISSN No.
Preparation and Standardization of a Comprehensive Socio Economic Status Scale, pp. 271-277	Indian psychological Review, Vol. 75, Spl. Issue, 2010	ISSN ; 0019-6215
The Dynamics of Effective Oral Communication: A Study at Higher	Pedagogics, Vol. 8, No. 1,	--

Dr. Minikutty A

1. "Wisdom Development among Higher Secondary School Students in relation to their Social Intelligence" in the Journal **Studies in Education**, Vol. 27, No.1, January 2010.
2. Influence of Critical Pedagogy in the Development of Primary School Students: Perception of Teachers" in Journal **Pedagogics**, Vol. VIII No.1, September 2010.
3. "A study on Leadership Qualities of Higher Secondary Students using Constructivist Learning Environment as a Reference" in Journal **GCTE, Journal of "Research and Extension in Education**, Vol.6 (1), January 2011.
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5. "Awareness on G.I.S: A Study among Secondary School Students" in Journal **'Journal of Studies in Teacher Education'**, Vol.4, issue 1, June 2011
6. "Attitude of Higher Secondary School Students towards the Educational use of Social Media" in Journal **Pedagogics**, Vol. IX, No.1, September 2011.
7. "Web Quest Model: An Effective Strategy for enhancing Metacognitive Skills of Primary School Students" in Journal **Teacher, Learner And Society**, Vol.08, No.02, December 2011.

Dr.Sajna Jaleel

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2. Human Rights Education: A Tool for Elimination of Human Rights Violations. **Proceeding of UGC Sponsored State level Seminar** on Awareness about Human Rights and Duties Among Women Teachers organized by N.S.S Training College, Chananacherry on 1st and 2nd Dec 2011
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SCHOOL OF PURE AND APPLIED PHYSICS

Dr K Indulekha

A. Peer Review Journals

1. 'Flares, broadening of the pulse-frequency peak and quasi-periodic oscillations in the transient X-ray pulsar 4U 1901+03' James M, Paul B, Devasia J, Indulekha K 2011 MNRAS 410 1489 IMPACT FACTOR 5.1
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4. 'Cosmological Model with Fermionic Field' Rakhi R, Vijayagovindan G V, Indulekha K 2010 IJMPA 26 2735 IMPACT FACTOR 1.699
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SCHOOL OF SOCIAL SCIENCES : NIL

SCHOOL OF TOURISM STUDIES :

Dr. Robinet Jacob

- **Health Care in Foreign Hands: Trends, Issues, Directions (2011),** Review of Business Research, Las Vegas, USA.

INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY

B. Peer Review Journals

Prof(Dr.) Sabu Thomas

1. **Studies on Stress Relaxation and Thermomechanical Properties of Poly(acrylonitrile-butadiene-styrene) Modified Epoxy–Amine Systems.**
Jyotishkumar P, Jürgen Pionteck, Rüdiger Haßler, Sajeev Martin George, Uros Cvelbar, Sabu Thomas
Ind. Eng. Chem. Res., 50 (8)(2011) 4432–4440
2. **Permeation of Chlorinated Hydrocarbon Vapors through High Density Polyethylene/ Ethylene Propylene Diene Terpolymer Rubber Blends.**
P. V. Anil Kumar, S. Anil Kumar, K. T. Varughese & Sabu Thomas
Journal: Separation Science and Technology 47 (6) (2011) 811-818
3. **Natural rubber latex/potato starch nanocrystal nanocomposites: Correlation morphology/electrical properties.**
Emilie Bouthegourd, K.R. Rajisha, Nandakumar Kalarikkal, Jean Marc Saiter, Sabu Thomas.
Materials Letters, 65 (23-24) (2011) 3615-3617
4. **Cure Kinetics of Poly(acrylonitrile-butadiene-styrene) Modified Epoxy–Amine System.** Jyotishkumar Parameswaran Pillai & Sabu Thomas,
Journal of Macromolecular Science, Part A, 48 (9)(2011) 751-756,
5. **Influence of clay content and amount of organic modifiers on morphology and pervaporation performance of EVA/Clay nanocomposites**
Runcy Wilson, Toms S. Plivelic, P. Ramya, C. Ranganathaiah, M. Y. Kariduraganavar, Anil kumar Sivasankarapillai, and Sabu Thomas,
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6. **Surface-modified sisal fiber-reinforced eco-friendly composites: Mechanical, thermal, and diffusion studies**
Sreekumar P.A., Kuruvilla Joseph, Unnikrishnan G. and Sabu Thomas
Polymer Composites, 32 (2011),131
7. **In situ microfibrillar blends and composites of polypropylene and poly (ethylene terephthalate): Morphology and thermal properties,**
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13. **Cellulose nanocomposites with nanofibres isolated from pineapple leaf fibers for medical applications**
Bibin Mathew Cherian, Alcides Lopes Leão, Sivoney Ferreira de Souza, Ligia Maria Manzine Costa, Gabriel Molina de Olyveira, M. Kottaisamy, E.R. Nagarajan, Sabu Thomas,
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14. **Transreactions in poly trimethylene terephthalate / bisphenol-A polycarbonate (PC) blends analysed by Pressure-Volume-Temperature measurements**
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19. **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).
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21. **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).
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23. **The Open Aperture Z-Scan Studies on Biferroic YCrO₃**, Shiji Krishnan, C. S. Sandeep, Philip Reji,, Nandakumar Kalarikkal, American Institute of Physics Conference Proceedings, Vol. 1349, 1277-1278 (2011).
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25. **Dynamics of Phase Separation in Poly(acrylonitrile-butadiene-styrene)-Modified Epoxy/DDS System: Kinetics and Viscoelastic Effects**
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26. **Morphology and Mechanical Properties of Normal Blends and In-Situ Microfibrillar Composites from Low-Density Polyethylene and Poly(ethylene terephthalate)**. Karingamanna Jayanarayanan, Archana Ravichandran, Dhivya Rajendran, Monikumar Sivathanupillai, Abirami Venkatesan, Sabu Thomas & Kuruvilla Joseph
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28. **Isolation of nanocellulose from pineapple leaf fibres by steam explosion** Bibin Mathew Cherian, Alcides Lopes Leão, Sivoney Ferreira de Souza, Sabu Thomas, Laly A. Pothan, M. Kottaisamy
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29. **Main chain and segmental dynamics of semi interpenetrating polymer networks based on polyisoprene and poly(methyl methacrylate)**
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31. **Ionic conductivity and interfacial properties of nanochitin-incorporated polyethylene oxide–LiN (C₂F₅SO₂)₂ polymer electrolytes**
N. Angulakshmi, T. Prem Kumar, Sabu Thomas, A. Manuel Stephan

Electrochimica Acta, 55 (4) (2010) 1401
32. **Dynamic mechanical properties of oil palm microfibril-reinforced natural rubber composites**
Shaji Joseph, Sreekumar P. Appukuttan, Jose M. Kenny, Debora Puglia, Sabu Thomas, Kuruvilla Joseph

Journal of Applied Polymer Science 117(3) (2010) 1298
33. **Viscoelastic and thermal properties of woven-sisal-fabric-reinforced natural-rubber biocomposites**
Maya Jacob, Jesmy Jose, Seno Jose, K. T. Varughese, Sabu Thomas

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 Shaji Joseph, P.A. Sreekumar, Jose M. Kenny, Debora Puglia, Sabu Thomas, Kuruvilla Joseph
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39. **Dynamic mechanical analysis of novel composites from commingled polypropylene fiber and banana fiber**
 Sherely Annie Paul, Christoph Sinturel, Kuruvilla Joseph, G.D. Gem Mathew, Laly A. Pothan, Sabu Thomas
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40. **Viscoelastic and thermal properties of woven-sisal-fabric-reinforced natural-rubber biocomposites**
 Maya Jacob, Jesmy Jose, Seno Jose, K. T. Varughese, Sabu Thomas
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41. **Rheology and morphology of polytrimethylene terephthalate/ethylene propylene diene monomer blends in the presence and absence of a reactive compatibilizer**
 Indose Aravind, Seno Jose, Kyung Hyun Ahn, Sabu Thomas
 Polymer Engineering & Science 50 (10) (2010) 1945
42. **Structural and mechanical properties of YBCO-polystyrene composites**
 Rosalin Abraham, Selvin Thomas P, Soosy Kuryan, Jayakumari Issac, K Nandakumar, Sabu Thomas
 Journal of Applied Polymer Science 118 (2) (2010) 1027
43. **Morphology, mechanical and thermal properties of nano-structured full IPNs based on polyisoprene and PMMA**
 Jacob John, R. Suriyakala, Selvin Thomas, Jude Martin Mendez, Anitha Pius, Sabu Thomas
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 M. Kannan, S. S. Bhagawan, Tomlal Jose, Sabu Thomas, Kuruvilla Joseph
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45. **Epoxy resin/liquid natural rubber system: secondary phase separation and its impact on mechanical properties**
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46. **Transport of methyl methacrylate monomer through natural rubber**
Jacob John, Sam Kunchandy, Anil Kumar, Anitha Pius, Sabu Thomas
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47. **In situ microfibrillar blends and composites of polypropylene and poly (ethylene terephthalate): Morphology and thermal properties .**
Karingamanna Jayanarayanan, Sabu Thomas und Kuruvilla Joseph
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48. **Preparation of Bionanomaterials and their Polymer Nanocomposites from Waste and Biomass**
P. M. Visakh and Sabu Thomas
Waste and Biomass Valorization, 1 (1) (2010) 121-134
49. **Compatibilizing Action of a Poly(styrene-butadiene) Triblock Co-polymer in ABS/PET-G Blends**
Joseph, Susan, Focke, Walter W, Thomas, Sabu
Composite Interfaces, 17(22) (2010) 175
50. **Preparation and characterization of nanoclay-filled polyurethane/polypropylene blends** Kannan, S.S. Bhagawan, Tomlal Jose, Sabu Thomas, Kuruvilla Joseph
Polymer Engineering & Science 50 (9) (2010)1878
51. **Reactive compatibilization of polymer blends**
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Society of Plastic Engineers, Plastics Research Online 10.1002/spepro.003188, 2010
52. **Recent Advances in Green Composites**
George Gejo, Joseph Kuruvilla, Abderrahim Boudenne, Thomas Sabu, Ed, Mohamed A. Taha, Ahmed M. El-Sabbagh and Iman M. Taha
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53. **Design, Development and Testing of Rubber Nanocomposites**
A. Saritha, Joseph Kuruvilla, Thomas Sabu, Ed, Mohamed A. Taha, Ahmed M. El-Sabbagh and Iman M. Taha
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54. **High-performance nanocomposites based on acrylonitrile-butadiene rubber with fillers of different particle size: Mechanical and morphological studies**

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Katarzyna Krasowska, Joanna Brzeska, Maria Rutkowska, Helena Janik, Meyyerappallil Sadasivan Sreekala, Koichi Goda, Sabu Thomas

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Advanced Centre for Environmental Studies and Sustainable Development

A. Peer Review Journals

1. Shijo Joseph, Moorthy M. S. R. and Thomas A.P. The Progress on remote sensing technology in identifying tropical forest degradation: a synthesis of the present knowledge and future perspectives, *Environmental Earth Sciences* (Springer), 64:731-741, 2011.
2. Shijo Joseph and Thomas A.P. Comparison of carbon assimilation estimates over tropical forest types in India based on different satellite and climate data products, *Int. J. Appl. Earth Observation & Geoinformation*, JAG – D-00006 R2. 2011.
3. Abhirosh Chandran, Sherine Varghese, Ellen Kandeler, Ambattu Thomas and Mohamed Hatha. An assessment of potential public health risk associated with the extended survival of indicator and pathogenic bacteria in freshwater lake sediments, *International Journal of Hygiene and Environmental Health* (ELSEVIER) doi:10.1016/j.ijheh, 2011.
4. Ajayakumar B., Rakesh P.S., Mahesh Mohan, Unni K.S. and Thomas A.P. Interpretation of the quantitative geomorphology of the Meenachil river basin, Kerala, South India using remote sensing and geographical information system, *Eco.Env. & Cons*, 17(2), 297-311, 2011.
5. Ajayakumar B, Mahesh Mohan, Renjith M.K., Unni K.S. and Thomas A.P. Holocene morphological modification of South West Coast of

- India : Evidence from Paleo-deposits of Meenachil river basin, Kerala, *Eco. Env. & Cons*, 17(2) 313-324. 2011.
6. Narayanan S.P., Sreekumar B. and Thomas A.P. Ornithofauna and its conservation in the Kuttanad wetland, southern portion of Vembanad – Kole Ramsar site, India, *Journal of Threatened Taxa*, 3 (4): 1663-1676. 2011.
 7. Abhirosh C, Sherine V, Thomas A.P., Hatha A. A. M. and Majumder. Potential public health significance of fecal contamination and multidrug-resistant *Escherichia coli* and salmonella serotypes in a lake in India, *Public Health (ELSEVIER)* xxx:1-3. 2011.
 8. Manoj V.M., Usha K. Aravind, Hari Mohan, Aravindakumar C. T. Reaction of hydroxyl radicals with S-nitrosothiols: Formation of thiyl radical (RS•) as the intermediate, *Res. Chem. Intermed.* 37, 1113-1122, 2011.
 9. Shijo joseph, Sudhakar Reddy, Thomas A.P., Srivastava S.K and Srivastava V.K. Spatial interpolation of carbon stock: a case study from Western Ghats Biodiversity hotspot, India, *International Journal of Sustainable Development & World Ecology*, 17(6): 481-486. 2010.
 10. Mujeeb Rahiman K.M., Yousuf Jesmi, Thomas A.P. and Mohamed Hatha A.A. Probiotic effect of *Bacillus* NL 110 and *Vibrio* NE 17 on the survival, growth performance and immune response of *Macrobrachium rosenbergii* (de Man). *Aquaculture Research*, 1-15, (doi:10.1111/j.1365-21095.2009.02473.x). 2010.
 11. Aravind U.K., George B., Baburaj M.S., Thomas S., Thomas A.P. and Aravindakumar C.T. Treatment of industrial effluents using polyelectrolyte membranes, *Desalination*, (ELSEVIER) 2010, 252:27-32, 2010.
 12. Rinisha K., Mujeeb Rahiman K.M., Razia Beevi M., Thomas A.P. & Mohamed Hatha A.A. Probiotic effects of *Bacillus* spp. On the growth and survival of post larvae of *Macrobrachium rosenbergii*, *Fishery Technology*, 42 (2): 173-178. 2010.
 13. Ajaykumar B., Mahesh Mohan, Shylesh Chandran M.S., Jayasooryan K.K., Unni K.S and Thomas A.P. Mechanism and geochemical implications to the Late Holocene organic carbon burial event- an example from Southwest coast of India with., *Environmental Earth Sciences*, (Springer), 59: 1409-1416. 2010.

14. Abhirosh C., Sherin V., Thomas A.P., Hatha A.A.M. and Abhilash P.C. Potential exposure risk associated with the high prevalence and survival of indicator and pathogenic bacteria in the sediment of Vembanadu Lake, India. *Water Qual.Expo.Health.*, WQEH 12403, DOI 10.1007/s 12403-010-0028-1. 2010.
15. Mahesh Mohan, Deepa M and Thomas A.P. Comparison of metal accumulation in the selected fishes from two sites of Vembanadu backwaters, Kerala, India. *J.Environ. Sciences and Engg*, 52 (3), 193-198, 2010.
16. Aravind U. K., George B., Baburaj M. S., Thomas S., Thomas A. P. and Aravindakumar C. T. Treatment of industrial effluents using polyelectrolyte membranes, *Desalination*, 252 27-32, 2010.

B. Conference proceedings

International

1. Divyalakshmi T.V, Baburaj M. S., Usha K Aravind and Aravindakumar C. T. ATR-FTIR studies of CHI/PSS multilayer. Proc.-International conference on membranes: Environmental and biological applications, P-45, Page 85. 2011.
2. Divyalakshmi T.V, Aravindakumar C. T. and Usha K. Aravind. FTIR and TGA studies of the dehydration of CHI/PSS multilayer. International conference on membranes: Environmental and biological applications-2011, page 85. Sep 16-19, 2011.
3. Divyalakshmi T.V, Aravindakumar C. T. and Usha K. Aravind. Lysozyme immobilized polyelectrolyte multilayered membrane: A Spectroscopic approach. International conference on membranes: Environmental and biological applications -2011, page 86, Sep 16-19, 2011.
4. Jissy Mathew, Sreedhanya S., Aravindakumar C. T. and Usha K. Aravind. Transport Studies of Amino Acids through Chitosan/ Polystyrene Sulfonate Multilayer Membrane. Proc.-International conference on membranes: Environmental and biological applications, Sept., Kottayam, 2011.
5. Baburaj M. S., Usha K Aravind and Aravindakumar C. T. Riboflavin loaded CHI/PSS multilayers, its interaction with BSA and KI. Proc.-International conference on membranes: Environmental and biological applications, YI-4, Page 46, 2011.
6. Sreekanth N.P, Babu Padmakumar, Shanthi Prabhav, Thomas A.P. An investigation of soil carbon sequestration potential of different land

- uses from a climate change perspective, international conference on Biodiversity and climate change, West Bengal, 2011.
7. Shanthi PrabhaV, Sreekanth N.P, Babu Padmakumar, Thomas A.P. The trilemma of soil carbon degradation, climate change and food insecurity. Disaster, risk and vulnerability conference, Kerala, 2011.
 8. Baburaj M. S., Usha K Aravind and Aravindakumar C. T. Interaction of Model Effluents with Selfassembled Mmembranes. Proc.-International conference on membranes: Environmental and biological applications. P-35, Page 79. 2011.
 9. Baburaj M. S., Usha K Aravind and Aravindakumar C. T. Transport of ions through CHI/PSS multilayers. Proc.- International conference on membranes: Environmental and biological applications, P-36, Page 80. 2011.
 10. Padma P., Ramasamy E.V, Muralivallabhan T V and Thomas A.P. Sustainable development: Sustainable consumption is the key – A review', International Conference on Education for peace social inclusion and Sustainable development: Towards a Paradigm Shift, M.G University, Kottayam, , 39pp, 8 – 10 Dec, 2010.
 11. Padma P., Ramasamy E.V, Muralivallabhan T V and Thomas A.P. 'Sustainable energy consumption: developments and constraints ', International Conference on Green path to Sustainability prospects and challenges, Proceeding of, Changanassery, Kottayam, pp 395-398, 7-9 July 2010.
 12. Sreekanth N.P, Shanthiprabha V, Thomas A.P, Usha A.K. Soil carbon accruals and system responses towards climate change- A regional perspective, international conference on climate change and developing countries. 2010.
 13. Toms Augustine, Prasanth Narayanan S., Babu Padmakumar, Arun Babu V., Jaisen N.D., Joby Paul, Deepa M., Jisha Kurian, Jayasooryan K.K., Ranjini J., Rathy Chandran, Sreejith P.N., Christopher G. and Thomas A.P. Butterfly fauna of the Mahatma Gandhi university campus, Kerala and the strategies adopted for its conservation 3rd Asian Lepidoptera Conservation Symposium and Training Programme 3ALCS - 2010 Coimbatore, India, 25-29 October, 2010.
 14. Jissy Mathew, S. Sreedhanya, C. T. Aravindakumar and Usha K. Aravind. Switchable BSA resistant and adhesive CHI/PSS multilayer

membranes. Proc.-International conference on membranes: Environmental and biological applications, Sept. Kottayam, 2011.

National

1. N.P. Sreekanth, Babu Padmakumar, V. Shanthiprabha, A.P. Thomas. An investigation of soil carbon sequestration potential of different land uses from a climate change perspective. 23rd Kerala Science congress held at CESS, Thiruvananthapuram, Kerala, 2011.
2. Babu Padmakumar, V.Shanthiprabha, N.P. Sreekanth, A.P. Thomas. Biochar- a viable soil amendment under a climate change context. 23rd Kerala Science congress held at CESS, Thiruvananthapuram, Kerala. 2011.
3. Sreekanth N.P, Babu P., Shanthiprabha V, Thomas A.P, Usha A.K. Landuse impact on soil carbon sequestration and pool vulnerability from a global warming perspective, 22nd Kerala Science congress, 2010.
4. Sreekanth N.P, Babu P., Shanthiprabha V, Thomas A.P, Usha A.K, Subin K.J. Biochar as a green choice to mitigate global warming, an experimental study, National seminar on sustainable agriculture, 2010.
5. Padma P., Ramasamy E.V, Muralivallabhan T V and Thomas A.P. 'Role of women in sustainable energy consumption. First Kerala women's Science congress, women and Biodiversity, Abstracts, pp 150-151. 10-12, Eranakulam, Aug, 2010.
6. Padma P., Ramasamy E.V, Muralivallabhan T V and Thomas A.P. Sustainable Consumption For Healthy Environment. National Seminar on Healthy life style, M. G University, Kottayam. 29-30 March 2011.
7. Padma P., Ramasamy E.V, Muralivallabhan T V and Thomas A.P. 'Eco Schools crafts Local solution to Global Climate change'. National Seminar on Climate change and India: a Gender Disaggregated approach, B.K. College, Department of economics, M. G University, Kottayam, 25-26 August 2011.
8. Padma P., Ramasamy E.V, Muralivallabhan T V and Thomas A.P. 'Education for Sustainable Consumption : Need of the Hour, Three

days. National Seminar on Higher educational Challenge and Prospects, Kannur University, Kerala. 13, 14,15 December 2011.

9. Sreekanth N.P, Babu Padmakumar, Shanthi Prabha V, Thomas A.P. Role of multiple land use categories in soil carbon sequestration, Indian forestry congress, New Delhi. 2011.
10. Sreedhanya S., Aravind U. K. and Aravindakumar C. T. Fluorescence Studies on the Interaction of Ovalbumin and Sulphasalazine, Proceedings of APSRC- Trombay Symposium on Radiation and Photochemistry 2010, PC-139, p-440., 2010.
11. Sreedhanya S., Aravind U. K. and Aravindakumar C. T. Fluorescence Studies on the Interaction of Ovalbumin and Sulphasalazine, Proceedings of APSRC- Trombay Symposium on Radiation and Photochemistry 2010, PC-139, p-440., 2010.
12. Divyalakshmi T.V, Aravind U. K., Aravindakumar C. T. Membranes: Science and Applications. Proc.-National Seminar on New Frontiers in Chemical science and Technology, Mar18-19, 2011.

INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES

A. Peer Review Journals

Prof . Ibnu saud

International

1. Polavarappu, Prasad; Donahue, Emily; Shanmugam,Ganesh; Scalmani, Giovanni; Hawkins, Edward; Rizzo, Carnelo;Ibrahim Ibnusaud; Thomas, Grace; Habel, Deenamma; Sebastian, Dellamol; A single chiroptical spectroscopic method may not be able to establish the absolute configuration of diastereomers: Dimethyl esters of Hibiscus and Garcinia Acids. *J.Phys.Chem.A2011*, 115, 5665–5673 (Impact Factor: 2.775)
2. Prasad L. Polavarapu , Giovanni Scalmani , Edward K. Hawkins, Carnelo Rizzo, NehaJeirath, Ibrahim Ibnusaud, DeenammaHabel, DivyaSadasivan Nair and SimimoleHaleema; Importance of solvation in understanding the chiroptical spectra of natural products in solution phase: Garcinia acid dimethyl ester, *J. Nat. Prod., (ACS), 2011*, 74,321-328. (Impact Factor: 3.947)

3.7 (a) No of Books Published

INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY

PROF (DR.) SABU THOMAS

1. **Handbook of Multiphase Polymer Systems – Volume - I**

Editors: S. Thomas (India), A. Boudenne (France), L. Ibos (France), Y. Candau (France) 2011

Seewebsite:

<http://onlinelibrary.wiley.com/book/10.1002/9781119972020>

2. **Handbook of Multiphase Polymer Systems - Volume - II**

Editors: S. Thomas (India), A. Boudenne (France), L. Ibos (France), Y. Candau (France) 2011

Seewebsite:

<http://onlinelibrary.wiley.com/book/10.1002/9781119972020>

3. **Recent Advances In Polymer Nanocomposites: Synthesis and Characterization**

Editors. Thomas, India , G.E. Zaikov , Russia and S.V. Valsaraj , India and A.P. Meera, India
Brill NV, Leiden , Netherlands and Boston, USA, 2010

See

Website: <http://www.brill.nl/default.aspx?partid=210&pid=32893>

4. **Rubber Nanocomposites- Preparation, Properties and Applications**

Editors: S Thomas, India, and Ranimol Stephen, India

John Wiley & Sons (Asia) Pte Ltd, 2010.

See Website: <http://as.wiley.com/WileyCDA/WileyTitle/productCd-0470823453.html>

SCHOOL OF PEDAGOGICAL SCIENCES

Dr. Sajna Jaleel

1. Use of Psychological Principles for student teachers Awareness. **Professional Competence in Teaching** .Agra: Rakhi Prakashan.2010

SCHOOL OF LETTERS

Dr. K M Krishnan

1. "Signature Tree", translation of Vishnu Narayanan Nampoothiri's poem *Haritham* 20

Dr.P S Radhakrishnan

Title with page Nos.	Type of Book & Authorship	Publisher ISSN/ISBN No.
Kuttikrishnamarar	Biographical study (Great Masters of Indian Literature Series)	Sahitya Akademi ISBN No.978-81-260-2886.3

3.7 (b) Chapters in edited books

School of Bio Science

LINU MATHEW

1. Biological Effects of Ecdysteroids and Their Non Steroidal Agonist Bisacylhydrazines- A Review, RESHMA JOHN, RASHMI P.A, AND LINU MATHEW, Biotechnology Vol. 7: Drug Discovery (accepted), Studium press, Houston USA.

School of Environmental Science

Dr. E.V.Ramasamy

2. Applied Disaster Research - Disaster, Risk and Vulnerability Conference 2011. **A.P.Pradeepkumar**, F.J. Behr, **E.V.Ramasamy** (Eds.) Proceedings of Disaster, Risk and Vulnerability Conference, March 12-14, 2011, Mahatma Gandhi University, Kottayam. P.267

Dr. Sylas V.P and Dr. E.V.Ramasamy

1. **Sylas V.P.**, John C.M., Joby Paul. Unni K.S., Thomas A.P. and **E.V. Ramasamy** (2010). Documentation and distribution of aquatic plants in relation with certain environmental variables of Kuttanad wetland ecosystem, Kerala. In : Taxonomy and Biodiversity. A. Bijukumar, M.P. Nayar, R.V. Varma and C.K. Peethambaran (Eds.). Narendra Publishing House, New Delhi. 377- 391pp.

International and Inter University Centre for Nanoscience and Nanotechnology

Prof(Dr.) Sabu Thomas

1. **Mechanical and Viscoelastic Characterization of Multiphase Polymer Systems.**
Handbook of Multiphase Polymer Systems
Poornima Vijayan P., Siby Varghese, Sabu Thomas, Pages: 251–310, 2011.
Editors: Abderrahim Boudenne, Laurent Ibos, Yves Candau, Sabu Thomas
Wiley, USA, 2011.
Published Online : 19 AUG 2011, DOI: 10.1002/9781119972020.ch7

2. **Fully Green Bionanocomposites**
A Handbook of Applied Biopolymer Technology: Synthesis, Degradation and Applications, Royal Society,
P. M. Visakh, Sabu Thomas and Laly A. Pothan 2011, 102-128
3. **Manufacturing of Multiphase Polymeric Systems**
Handbook of Multiphase Polymer Systems
Soney C. George, Sabu Thomas, Pages: 123–160, 2011
Published Online : 19 AUG 2011, DOI: 10.1002/9781119972020.ch5
4. **Engineering and Specialty Thermoplastics: Polyethers and Polyesters: State-of-the-art, New Challenges and Opportunities.**
Handbook of Engineering and Specialty Thermoplastics: Polyethers and Polyesters, Volume 3

Sabu Thomas, P. M. Visakh, Pages: 1–14, 2011
Published Online : 8 JUN 2011, DOI: 10.1002/9781118104729.ch1
5. **Thermomechanical and Spectroscopic Characterisation of Natural Fibre Composites**, K.R.Rajisha, B. Deepa, L.A. Pothan and Sabu Thomas, in **Interface Engineering of Natural Fibre Composites for Maximum Performance** Eds. Nikolaos E. Zafeiropoulos, Woodhead Publishing Limited, UK (2011) 241
6. **Raw and Renewable Polymers**, Seena Joseph, Maya Jacob John, Laly A. Pothan, and Sabu Thomas, in **Polymers- Opportunities and Risks II** Eds. Peter Eyerer, Martin Weller, and Chrisof Hubner, Springer Berlin Heidelberg 2010.
7. **Nanocomposites: State of the Art, New Challenges and Opportunities**, Ranimol Stephen and Sabu Thomas in **Rubber Nanocomposites Preparation, Properties and Applications** Eds. Sabu Thomas, Ranimol Stephen, John Wiley and Sons (Asia) Pte Ltd, Singapore (2010), 1
8. **Nanoparticles: Synthesis, Characterisation and Applications**, Anu Tresa Sunny and Sabu Thomas, in **Recent Advances in Polymer Nanocomposites: Synthesis and Characterisation** Eds. S. Thomas, G.E. Zaikov, S.V. Valsaraj, A.P. Meera, Brill NV, Leiden, The Netherlands (2010) 1

SCHOOL OF LETTERS

Dr. K M Krishnan

1. Edited *The Word and The World* The Textbook of Prose for Third Semester B A English students.

3.11 No. of conferences organized by the Institution

Convener	Title	Level
SCHOOL OF BEHAVIOURAL	One day National Seminar on "Management of Learning	National

SCIENCES	Disabilities" on 22 nd March 2011.	Seminar
SCHOOL OF INDIAN LEGAL THOUGHT	One Legal Literacy camp was organised based on the topic Consumer Protection Laws and Women's Law Act on 12.3.2011	
SCHOOL OF INDIAN LEGAL THOUGHT	Dr.Ambedkar Memorial Lecture on 31 st March 2011 Prof.(Dr.) R Venkat Rao, Vice Chancellor delivered the Memorial Lecture	National Seminar
SCHOOL OF INDIAN LEGAL THOUGHT	Two day National Seminar on 18 th & 19 th March, 2011 on the Topic Right to establish Educational Institution - A Constitutional Perspective	National Seminar
SCHOOL OF LETTERS	Shri Kumar Shahani well known film maker and academic visited the School under the ERUDITE Scheme of Kerala State Higher Education Council and gave series of lectures and interacted with the students and faculty during November 1-3 2010	State Level Seminar
SCHOOL OF LETTERS	A lecture-cum-workshop series named "Keywords"	Workshop
SCHOOL OF PEDAGOGICAL SCIENCES	One-day Orientation Workshop on Adolescence Education and Life Skills on 29 th August 2014 in collaboration with SCERT Kerala with financial support of NCERT, New Delhi	Workshop
INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES	Workshop on "Organometallic and Bio-Inorganic Chemistry", August 23 rd - 26 th , 2011	Workshop
INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES	Workshop on "Basic Principles and applications of Computational Chemistry", May 23 rd - 27 th , 2011	Workshop
INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE & TECHNOLOGY	National Workshop on Nanomaterials: Synthesis, Characterization, and Applications. (NWNM) January 12 - 14, 2010.	Workshop
INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE & TECHNOLOGY	Second International Conference on Polymer Processing and Characterization (ICPPC 2010) January 15 - 17, 2010.	International Conference
INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE &	International Conference on Nanomaterials: Synthesis, Characterization, Applications (ICN 2010) April 27 - 29, 2010.	International Conference

TECHNOLOGY		
INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE & TECHNOLOGY	International Conference on Natural Polymers. (ICNP 2010) September 24 – 26, 2010.	International Conference
ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT	International Conference on Advanced Oxidation Process in collaboration with Centre for Environment Education and Technology (CEET), (AOP-2010)-September 18-21, 2010, Kottayam	International Conference
ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT	National Conference on Native Livestock breeds and their sustainable uses in collaboration with Vechoor Conservation Trust and National Biodiversity Authority, September 27- 28, 2010, Kottayam)	International Conference
ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT	International conference on membranes: Environmental and biological applications-(ICM-2011) September 16-19, 2011, Kottayam	International Conference
ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT	Workshops on Science and Traditional Practices (1) Marma Vaidya (April 30 th and May 1 st , 2011) (2) Shelters-the relevance of Vastu (May 16, 2011) School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala.	Workshop
ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT	National conference on Disaster risk and vulnerability, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011	National conference
SCHOOL OF COMPUTER SCIENCES	Workshop on “ Tour Making ”, Mr. Aravind Paranjpye, Officer for Science Popularization,IUCAA, Pune, October 18-19, 2010.	Workshop
SCHOOL OF COMPUTER SCIENCES	Workshop on “ FOSS and BOSS ”, Smt. Saleena H, Senior Technical Officer, CDAC, Trivandrum, December 17, 2010.	Workshop
SCHOOL OF COMPUTER SCIENCES	Workshop on “ e-Astronomy and Statistics ”, organized by School of Pure and Applied Physics in association with School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 17-19, 2011.	Workshop

SCHOOL OF COMPUTER SCIENCES	Seminar on “ Cyber Crimes ”, Mr. E.S. Bijumon, DYSP, Cyber Cell, Trivandrum, December 17, 2010.	State Level Seminar
SCHOOL OF COMPUTER SCIENCES	Seminar on “ Best Programming Practices ”, Dr. Ashish Mahabal, Senior Research Scientist, California Institute of Technology (Caltech) USA, (Erudite Scholar- Mahatma Gandhi University), January 20, 2011.	State Level Seminar
SCHOOL OF COMPUTER SCIENCES	Workshop on “Teaching Learning Process”, by Prof. (Dr.) R. Vijayakumar, HOD, School of Computer Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011	State Level Seminar
SCHOOL OF COMPUTER SCIENCES	Interface 2010 , a National level IT Fest organized by the School in association with Computer Science Students’ Association of the School.	State Level Seminar
SCHOOL OF COMPUTER SCIENCES	Workshop on “ Computer Networking Leading to CCNA Certification ”, March 16, 2011.	State Level Seminar
SCHOOL OF COMPUTER SCIENCES	Rough Set Theory and Data Mining - by Mr. Sabu M K, MES College, Marampally, May 2011.	State Level Seminar
SCHOOL OF COMPUTER SCIENCES	Research Methodology - by Ms. Renju S Kartha, May 2011.	State Level Seminar
SCHOOL OF COMPUTER SCIENCES	Digital Image Processing: Mr. Rajkumar, Dept. of Information Technology, Kannur University, May 2011.	State Level Seminar
SCHOOL OF PURE AND APPLIED PHYSICS	National workshop on Mathematical Methods in Physics, M G University Kottayam, March 23-25, 2011	National workshop
SCHOOL OF PURE AND APPLIED PHYSICS	National workshop on Materials characterisation by diffraction Methods, M G University Kottayam, February 24-25, 2010	National workshop
SCHOOL OF PURE AND APPLIED PHYSICS	International Conference on Education for Peace, Social Inclusion, and Sustainable Development : Towards a Paradigm Shift, MGU 2010 (attendance, organizing & session chairing)	International Conference
SCHOOL OF SOCIAL SCIENCES	ACQUIRE Scholarship Camp	University level and State level
SCHOOL OF SOCIAL SCIENCES	International Conference on Higher Education (ICMGU 2010), 8 - 10 December 2010- Theme of the Conference “Education for Peace, Social Inclusion and Sustainable	International Conference

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

Faculty		Programmes associated
Dr.Keerthi T.R (School of Bio Sciences)	:	<ul style="list-style-type: none"> • 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.
Dr. M.S. Razeena Padmam (School of behavioural Sciences)	:	<ul style="list-style-type: none"> • Dean, Faculty of Behavioural Sciences. • Member Syndicate, M.G University. • Chairperson, Anti- Harrasment cell, M.G University
Dr.P.S. Sukumaran (School of behavioural Sciences)		<ul style="list-style-type: none"> • Dean, Faculty of Behavioural Sciences. • Member, Academic Council, M.G University. • Convenor, Core Committee, B Ed Special Education(MR) M.G University • Convenor, Core Committee, M Ed Special Education(MR) M.G University • Chairman, Board of Examiners, B. Ed Special Education (Hearing Impairment), University of Calicut. • Chairman, Board of Examiners, B. Ed Special Education, (MR), M.G University. • Chairman, Board of Examiners, M. Ed Special Education, (MR), M.G University
Rincymol Mathew (School of behavioural Sciences)		<ul style="list-style-type: none"> • Member, Board of Studies, Nursing(UG and PG),M.G University • Chairman, Board of Examiners, BSc. Nursing (III), M.G University. • Chairman, Board of Examiners, BSc. Nursing (IV), M.G University • Adhoc. Inspector, Kerala Nursing Council

Dr E.V.Ramasamy	<ul style="list-style-type: none"> • Nominated as a member of the <i>Technical Committee</i> of Suchitwa Mission , <i>Local Self Government Department, Govt. of Kerala</i> , attended several meetings of the committee during 2010-11 • Nominated as a member of PG Board of Studies , University of Kerala and he has attended the BoS meetings held at Thiruvananthapuram.
Dr. K. Indulkha (School of Pure and applied Physics)	<ul style="list-style-type: none"> • Subject Expert for the Selection of Lecturers and Readers Kerala University 28th & 29th Oct 2011 • Faculty Convenor (Accommodation Committee) ICMGU 2010 International Conference on Education for Peace, Social Inclusion, and Sustainable Development : Towards a Paradigm Shift 8 -10 Dec 2010 • Member, Reconstituted Board of Studies, School of Pure & Applied Physics • Chair for Parallel Session on Stars & Galaxies at the Astronomical Society of India Meeting at Pt R. S. University Feb 2011
Dr. ROBINET JACOB School of Tourism Studies	<ul style="list-style-type: none"> • Chairman, Board of Studies, School of Tourism Studies, M.G University (2010-13) • Member, Board of Studies, Tourism and Travel Management, Kuvempu University, Shimoga.(2010-13) • Member, Board of Studies, Travel and Tourism, Kannur University.(2010-12) • Member, Board of Studies, Travel and Tourism, Kannur Univesity. (2008-10) • Editor & Content Developer for online Malayalam language & cultural studies for Mango Languages, a multimillion dollar US company (2011) (www.mangolanguages.com).
Dr. R Vijayakumar (School of Computer Sciences)	<ul style="list-style-type: none"> • 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 (School of Computer Sciences)	<ul style="list-style-type: none"> • Chairperson, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala • Member of Board of Examiners for MCA Examinations of Kannur University. • Placement Co-ordinator, School of Computer Sciences, Mahatma

	<p>Gandhi University, Kottayam, Kerala.</p> <ul style="list-style-type: none"> • Expert member of the committee for affiliation of new courses to colleges of MGU. • One of the faculty co-ordinator, ERUDITE-Scholar-in- Residence Programme of Kerala State Higher Education Council for the visit of Dr. Ashish Mahabel, California Institute of Technology, USA.
Ms. Pushpalatha K.P (School of Computer Sciences)	<ul style="list-style-type: none"> • Member, Board of Studies, Computer Science(PG), School of Computer Sciences, Mahatma Gandhi University, Kottayam.. • Paper Setter, Calicut University, Calicut and Mahatma Gandhi University, Kottayam and CUSAT Cochin. • Member of organising committee, Interface 2010, a National level IT Fest organized by the School in association with Computer Science Students' Association of the School. • Expert member for the committee for course affiliation to colleges of MGU • Faculty co-ordinator of Thematic Parallel Session on "Science and Technology Education" organized as part of the International Conference on "Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010)", Mahatma Gandhi University, December 6-10, 2010.
Ms. Anuj Mohamed (School of Computer Sciences)	<ul style="list-style-type: none"> • Member, Board of Studies in Computer Science and Applications (PG), Mahatma Gandhi University, Kottayam, Kerala • Convenor, Anti Harassment Cell, Mahatma Gandhi University, Kottayam, Kerala • Member, Implementation and Monitoring Committee for Campus Wide Networking, Mahatma Gandhi University, Kottayam, Kerala. • Member, Aspire Scholarship programme – Academic Monitoring Committee, Mahatma Gandhi University, Kottayam, Kerala. • Faculty co-ordinator of Thematic Parallel Session on "Science and Technology Education" organized as part of the International Conference on "Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift (ICMGU 2010)", Mahatma Gandhi University, December 6-10, 2010. • Member, organising committee, Interface 2010, a National level IT Fest organized by the School in association with Computer Science Students' Association of the School. • Expert member of the committee for affiliation of new courses to colleges of Mahatma Gandhi University.
Dr. Celine Pereira (School of Pedagogical Sciences)	<ul style="list-style-type: none"> • Resource Person in the State Seminar Cum Workshop on Managing School Education in Kerala on May 6, 2014 held in SIEMAT Kerala. • Resource Person in the National Workshop on Research Trend, Design and Reporting on 19-20 Dec. 2014 in Ruban College of Education, TN. • Resource Person in the National Conference on Trends and

	<p>Innovations in Gandhian Thought on 12-13 Dec. 2014 held in Gandhi Smarak Nidhi, Trivandrum.</p> <ul style="list-style-type: none"> • Resource Person in the International Seminar on Redefining Educational Practices integrating Indian Epistemology and Modern Cognitive Neurosciences held on 7-9 Jan. 2015 in NVKSD College of Education, Attoor. Paper: Effectiveness of Value Discussion Model on the Affective Domain, Competencies of Adolescence • Resource Person in the National Workshop on Research Methodology in Social Sciences organized by Post Graduate Department of History on 25-27 Feb. 2015 held in Catholicate College pathanamthitta.
Dr. Jaya Jaise (School of Pedagogical Sciences)	<ul style="list-style-type: none"> • Served as Resource Person in the International Conference “Standards and Benchmarks for Excellence in Learning, Teaching and Research” organised by All India Association for Educational Research (AIAER); Department of Education, University of Kerala; Government College of Teacher Education from 26th to 28th November 2015.
Dr. Minikutty A (School of Pedagogical Sciences)	<ul style="list-style-type: none"> • Acted as coordinator the state level Workshop on “Finalisation of the profuse pathways of M.Ed. (CBCSS) Curriculum organized by School of Pedagogical Sciences, Mahatma Gandhi University, Kottayam on 27.01.2011 School of Pedagogical Sciences Hall, Mahatma Gandhi University, Kottayam.
Dr.Saji Mathew (School of Letters)	<ul style="list-style-type: none"> • Functioned as external expert for the preparation of English Reader for Class IX and X under SCERT, Thiruvananthapuram (2010 and 2011)
Dr. John(School of Gandhian Studies and Development Studies)	<ul style="list-style-type: none"> • Serving as the Editor of Gandhi Margh (quarterly), the topmost Journal in Gandhian Studies published from New Delhi. , for the last six years • Manuscript reviewer for Sage and a number of journals like International Political Science Review and Negotiation.
Dr.Mahajan P Mani(School of Gandhian Studies and Development Studies)	<ul style="list-style-type: none"> • Expert member of the UGC in social Work

Dr.George Joseph(School of Indian Legal Thought)	<p>Served as resource person in the</p> <ul style="list-style-type: none"> • UGC sponsored three day National seminar on Realisation of Socio-economic Rights, organised by Department of Law University of Kerala, Trivandrum 3-5, Feb 2011 • Symposium on Judicial Accountability and Indian Democracy, organized by the Institute of Parliamentary Affairs, Govt. of Kerala at Sulthanbethary, Kerala 24th Jan. 2011
Sri. Sunil Kumar Cyriac(School of Indian Legal Thought)	<ul style="list-style-type: none"> • Acted as a judge in All India Moot Court Competition organised by Govt.Law College Thiruvananthapuram • Special Invited Lecture in Labour India Public School • Topic: Importance of Role of Law in the modern World

3.13 Details of Collaborations

Faculty/Coordinator of the program	Collaborating Institution	Type of collaboration	Other details
International and Inter University Centre for Nanoscience and MNanotechnology	<ol style="list-style-type: none"> 1. Bhabha Atomic Research Centre, Mumbai 2. Raman Research Institute, Bangalore 3. Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore 4. UGC DAE CSR Kolkata Centre, Kolkata 5. Pushpagiri Research Centre Thiruvalla, Kerala 6. Saha Institute of Nuclear Physics, Kolkata 7. National Chemical Laboratory, Pune 8. Rubber Research Institute of India 9. Cochin University of Science and Technology, Cochin, Kerala 10. Centre for Materials for Electronics Technology Thrissur, Kerala 11. Central Electrochemical Research Institute (CECRI), 	National	National

	<p>Karaijadi</p> <p>12. Indian Institute of Technology, Kharagpur</p> <p>13. Banaras Hindu University</p> <p>14. Indian Institute of Space science and Technology, Trivandrum</p> <p>15. Indian Institute of Technology, Mumbai, Madras</p> <p>16. Indian Institute of Science , Bangalore</p>		
<p>International and Inter University Centre for Nanoscience and MNanotechnology</p>	<p>Walter Sisulu University, South Africa</p> <p>2. Almighty Institute of power Engineering and Telecommunication</p> <p>3. Deaken University, Australia</p> <p>4. University of Rouen</p> <p>5. Kansas State University, Manhattan, Kansas ,USA</p> <p>6. Siberian Federal University, Russian Freedom</p> <p>7. Laboratoire Des sciences Analytics, CNRS UMR, France</p> <p>8. University Lorraine, Nancy, France</p> <p>9. University of Pretoria, South Africa</p> <p>10. Changwon National University, Korea</p> <p>11. Cape Peninsula Uni of Tech South Africa</p> <p>12. Beijiing University of</p>	INTERNATIONAL	INTERNATIONAL

	<p>Chemical Technology China</p> <p>13. Technische Universitat Chemnitz Jermany</p> <p>14. Martin Luther Universistat Halle Witenberg Germany 23</p> <p>15. Institute of Polymer Research Germany</p> <p>16. CNRS Thiais France</p> <p>17. University of Paris 12, France</p> <p>18. University of Sud Brittany, France</p> <p>19. University of Free state South Africa</p> <p>20. University of Strassburg, France</p> <p>21. Jozef Stafan Institute Ljublijana Slovenic</p> <p>22. Universite Paris- Sud XI France</p> <p>23. National University of Singapore, Singapore</p> <p>24. Leibniz Institue fur Katalyse e.V Rostock Germany</p> <p>25. LECAP University of Rouen, France</p> <p>26. University of Lemans, France</p> <p>27. University of Rijeka, Craoatia</p> <p>28. University of Orlea France</p>		
School of Pure and applied Physics	<p>1. Indian Institute of Science</p> <p>2. Raman Research</p>	National	National

	Institute		
School of Behavioural Sciences	1. NIMHANS, 2. NIMH, 3. NISH, 4. AIISH	National	National
School of Computer Sciences	California Institute of Technology (Caltech, USA)	International	International
School of Gandhian Thoughts and Development Studies	2. Gandhigram Rural University department of Gandhian Thought 3. Ramalinga Philosophy in Madurai Kamaraj University, Tamil Nadu	National	National
School of Tourism Studies	School of Hospitality, Tourism & Culinary Arts , Department of Tourism, Events and Recreation, Taylor's University, Malaysia	International	International
INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES	1. Prof. Prasad L. Polavarapu (Vanderbilt University, Nashville, USA) 2. Prof. Henri B. Kagan (Universite Paris-Sud, 91405 Orsay, France) 3. Prof. D.W. Armstrong (University of Texas at Arlington)	International	International
	1. Dr. I. N. N. Namboothiri, Professor, Department of Chemistry, IIT Mumbai 2. Dr.Radha V. Jayaram, Professor, ICT, Mumbai 3. Dr. Manoj Ramavarma ,NIIST, Trivandrum 4. Dr. K. G. Suresh, Professor,Dept. of Physics, IIT Mumbai	National	National

<p>SCHOOL OF INTERNATIONAL RELATIONS AND POLITICS</p>	<ol style="list-style-type: none"> 1. Institute of Political Studies (IEP) of Rennes, France 2. Institute of Chindian Studies, Jinan University, China 3. Earlham College (EC), a liberal arts college in Richmond, Indiana, U.S.A 4. Sciences Po Bordeaux (IEP), FRANCE 5. University, Lewisburg, Pennsylvania, USA 	<p>International</p>	<p>International</p>
	<ol style="list-style-type: none"> 6. Department of Strategic and Regional Studies, University of Jammu, Jammu. 7. Department of Political Science, University of Kerala; 8. Centre for Development Studies, Thiruvananthapura 9. Cochin University of Science and Technology. 	<p>National</p>	<p>National</p>

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

Name	Designation	School	Details of awards/recognition
Prof Sabu Thomas	Professor	INTERNATIONAL & INTER UNIVERSITY CENTRE FOR NANO SCIENCE & TECHNOLOGY	<ol style="list-style-type: none"> 4. Distinguished Professorship Award, Josef Stefan Institute, Slovenia, 2010 5. Distinguished Professorship, Josef Stefan Institute, Slovenia 6. Senior Visiting Professor, University Technology Mara (UiTM), Malaysia 7. Visiting Professor, Uni of Burgos, Burgos, Spain 8. Senior Visiting Professor, University Technology Mara (UiTM), Malaysia

Dr.E.V.Ramasamy	Professor	School of Environmental Sciences	1. Nominated as a member of the <i>Technical Committee of Suchitwa Mission , Local Self Government Department, Govt. of Kerala , attended several meetings of the committee during 2010-11</i>
Dr. Indulekha	Associate Professor	SPAP	Selected as Member Scientific Organizing Committee of Astronomical Society of India

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

Sl.no	Department	Details
1.	School of Behavioural Sciences	<ul style="list-style-type: none"> Extension programmes organized in the neighbouring schools on stress management study habits, healthy living, life skills, etc.,
2.	School of Computer Sciences	<ul style="list-style-type: none"> Interface 2010- an annual IT Meet (IT competitions) organized by the School provided a platform for students in Computer Science and Technology from various Universities and Colleges in South India to showcase their technical talents and also served as a forum for information interchange in the field Orphanage visit – As an initiative of the students, Students, staff and faculty members visited a rehabilitation centre near Medical college, Kottayam, spent a day with the inmates, majority of whom are mentally and physically challenged, as part of new Year celebrations and provided a modest financial help. The School was a participant as Exhibitor in the Educational Exhibition from 6-10 December 2010, organized by Mahatma Gandhi University, Kottayam at the University campus, in connection with the International Conference on the theme Education for Peace, Social Inclusion and Sustainable Development: Towards a Paradigm Shift ICMGU 2010).
3.	School of Indian Legal Thought	<ul style="list-style-type: none"> Conducted Dr.Ambedkar Memorial Lecture

4.	School of International Relations & Politics	<ul style="list-style-type: none"> The School organised several programmes with a view to generating interest in the fields of Human Rights, Public Policy and Governance. The faculty members conducted classes in and outside the campus in the related areas. Some of the programmes were held in collaboration with colleges and non-governmental organisations.
5.	School of Letters	<ul style="list-style-type: none"> Shri Kumar Shahani well known film maker and academic visited the School under the ERUDITE Scheme of Kerala State Higher Education Council and gave series of lectures and interacted with the students and faculty during November 1-3 2010. he also gave this year's Prof. R Narendra Prasad memorial lecture. A lecture-cum-workshop series named "Keywords" is an ongoing programme at present.
6.	School of Pure & Applied Physics	<ul style="list-style-type: none"> The School has conducted INCULCATE programs in association with Government of Kerala for School children. The faculty members of the School also guiding students of M.Sc. and M. Tech from affiliated institutions of Mahatma Gandhi University in particular, and other institutions within Kerala as well as national institutions like IISER & NISER states. Faculty members also deliver invited talks on a regular basis in Colleges and Universities.
7.	School of Tourism Studies	<ul style="list-style-type: none"> Students undertook data collection for SAPARYA project of Tourist Resorts (Kerala) Limited – a Government of Kerala undertaking in Kumarakom
8.	Advanced Centre for Environmental and Sustainable Development	<ul style="list-style-type: none"> Participatory Rain water harvesting in a rural area

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

Sl.no	School/ Department	Activities done
1.	School of Behavioural Sciences	Coaching is offered through placement cell. Classes by experts are arranged as and when required. Help of University career guidance and information Centre is utilized .
2.	School of Computer Sciences	The University provides a common facility, a career guidance and counselling centre. The students of the School can avail the facility as and when required.
3.	School of Indian Legal Thought	Necessary guidance are periodically given to students for various competitive examinations

4.	School of International Relations & Politics	The students depend on the coaching classes conducted by the University. The School does not offer any special arrangements for that.
5.	School of Pedagogical Sciences	The school utilizes the services of the student counselling and career guidance bureau of the University which is headed by Dr. T.V. Thulasidharan, Professor, School of Pedagogical Sciences. The bureau offers coaching for UGC-NET for all students as well as special coaching for SC/ST/OBC students for competitive exams conducted by Kerala and Union Public Service Commission.
6.	School of Pure & Applied Physics	The School extends full support for the conduct of coaching classes for NET examination with Career guidance bureau. The faculty members also conducts examinations in the respective subjects in tune with the syllabi and examination pattern at the national level tests. These attempts have helped many students to qualify NET examination.
7.	School of Tourism Studies	Formed student groups for combined preparation based on their aptitude and guided by teachers

5.6 Details of student counselling and career guidance

Sl.no	School/ Department	Activities done
1.	School of Behavioural Sciences	Offered through the counselling centre of the department and placement of the University. Individual teachers are also involved in students guidance and counselling
2.	School of Indian Legal Thought	Student counselling and carrier guidance provided to students by individual faculty
3.	School of International Relations & Politics	The students in the School were given periodic academic counselling on various aspects of the curriculum and assessment pattern and processes. Counselling started at the beginning of each semester and continued throughout. The individual faculty members involved in providing students with necessary confidence and motivation to take up the challenges in the right earnest and good spirit. The weak and the disadvantaged among them got special attention.
4.	School of Pedagogical Sciences	The students attended the UGC NET coaching in General paper at the student counselling and career guidance bureau of the University
5.	School of Pure & Applied Physics	Faculty members as the mentor 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.
6.	School of social sciences	Individual faculty to individual students mode of student counselling and guidance.
7.	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. Interaction with Faculty and students of Banaras Hindu University on January 2011.
8.	Advanced Centre for Environmental and Sustainable Development	Students participated in the counselling and career guidance programme of the University

5.10 Scholarships financial support details

Fellowship	Number of awardees	Amount Rs.
Post-Doc*	-	-
Junior research fellowship*	-	-
Senior research fellowship*	-	-
Institutional fellowship	-	-
International/national recognitions (Aspire)	-	-
University JRF	160	9999641