# UNIVERSITY OF KERALA

Senate House Campus, Thiruvananthapuram, Kerala 695 034 www.keralauniversity.ac.in



Vol.1

# SELF STUDY REPORT for ACCREDITATION

**Submitted to** 

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BENGALURU

August 2014

# **UNIVERSITY OF KERALA**

Senate House Campus, Thiruvananthapuram, Kerala 695 034 www.keralauniversity.ac.in



(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala State Legislative Assembly)

# SELF STUDY REPORT for ACCREDITATION

(Re-accreditation -2nd cycle)

**Submitted to** 

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Nagarbhavi BENGALURU - 560 072 August 2014

#### **VISION**

To have institutional autonomy and academic freedom

To have strong but impartial public governance

To be campus rooted but internationally oriented

To be knowledge based and student centred

To be research driven and learning focused

To be quality and cost conscious but socially responsible

To be technologically sophisticated but community dependent

To be professionally attuned but humanly sensitive and above all

To be publicly accountable and socially committed

#### **MISSION**

- To emerge as a centre of academic excellence through holistic education and development of right skills
- To be recognized as the hub of original research and innovative thinking that caters to the needs of the Industry and Policy Makers
- To strengthen the Consultancy services of the University through a full-fledged University- Industry tie-up and thereby tap resources of the Industry for its teaching, research and extension services
- To actively respond to the momentous issues of our society and socio-political environment of the world
- To transform our traditional University into a University of global standard that makes significant contribution at the international level
- To ensure that Departments and centres in the University have autonomy within the frame work of the established system and facilitate the same choice to the affiliated colleges.
- To produce young entrepreneurs who can provide job opportunities rather than be job seekers
- To be known across the globe for the diversity of its teachers and students, and the quality and employability of its graduates, in diverse fields
- To produce internationally known leaders, scholars/scientists and sports persons

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#### Members of the Steering Committee on NAAC Accreditation

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Prof. P.K. Radhakrishnan,

Vice - Chancellor

Vice- Chairman:

Dr. N. Veeramanikandan,

Pro Vice - Chancellor

General Convener:

**Dr. Jayaprakash R.**(Member, Syndicate)

Joint Conveners

Dr. M. Jayaprakas (Director, College Development Council)

Prof. Gabriel Simon Thattil (Steering Committee Coordinator)

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Dr. K.C. Sunny, Professor & Head, Department of Law (Criterion II-Teaching- Learning and Evaluation)

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Dr. Mohammed Basheer K., Registrar (Criterion IV- Infrastructure and Learning Resources)

Dr. C.R. Prasad, Professor & Head, Department of Malayalam (Criterion V-Student Support and Progression)

Dr. G. Raju, Professor, Department of Commerce (Criterion VI-Governance, Leadership and Management)

Dr. Achuthsankar S. Nair, Professor & Head i/c, Department of Computational Biology & Bioinformatics (Criterion VII-Innovation and Best Practices)

#### **Other Members:**

Dr.A.Bijukumar, Associate Professor& Head, Department of Aquatic Biology& Fisheries.

Dr.P.M.Radhamany, Associate Professor& Head, Department of Botany.

Dr.V.Biju, Assistant Professor& Head, Department of Physics.

Dr.P.P.Ajayakumar, Professor, School of Distance Education.

Dr.B.Hariharan, Associate Professor, Institute of English.

Dr.A.M.Unnikrishnan, Associate Professor, School of Distance Education.

Dr.K.Satheesh Kumar, Assistant Professor, Department of Futures Studies.

Dr.Rajesh Reghunath, Assistant Professor, Department of Geology.

Dr. Aji S., Assistant Professor, Department of Computer Science.

Dr. Manoj Chacko, Assistant Professor, Department of Statistics.



Prof. P. K. RADHAKRISHNAN, Ph. D. Vice - Chancellor

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Monday, August 11, 2014

### **PREFACE**

The University of Kerala was founded as the University of Travancore in the erstwhile princely State of Travancore in 1937 and is one of the sixteen oldest universities in the country. The last seventy five years has seen the University of Kerala transforming itself in many ways. The University was first accredited with B++ grade in March 2003.

The University adopts various measures to meet the needs in higher education in terms of curriculum, pattern of imparting education, research and consultancy, innovative practices as well as administrative reforms.

### The major initiatives of the University in the last five years include:

- Introduction of the School System
- Massive Curriculum revision for the UG and PG Programmes
- Introduction of Choice Based Credit System CBCSS at the UG level
- Innovative courses in the University Departments and the affiliated colleges
- Formation of Finishing School for Soft Skill training and Placement Cell for student placement
- Smart classrooms in all teaching Departments, Wi-Fi connectivity enabled campus
- Formation of a Research Council for research support and linkages
- Research Portal for Scholars for IT enabled services right from registration to thesis submission

- Extensive Research environment 50% of our departments are inducted to Research Projects of National Funding Agencies
- Automation as part of administrative reforms, single window admission for UG and PG programmes in Colleges.
- IT enabled services for employees through KU Finance Portal
- Construction of a new stadium with governmental support in Kariavattom Campus in progress
- Amenity Centre in the Senate House Campus
- Platinum Jubilee Academic Block in the Kariavattom Campus

Knowledge creation reflected in the 100% funding for research scholars and substantive involvement in research projects, content rich curriculum periodically reviewed and updated, social commitment, incorporating principles of accessibility and inclusiveness in higher education as well as dedicated man power involved in team work are our strengths.

Our strength reaches out in a competitive higher education environment where knowledge creation opens up opportunities across borders. The various achievements and innovations outlined in this report bears testimony to the concerted and comprehensive effort of all stakeholders of the university. I am confident that the Reaccreditation will equip the University to achieve its aim of equity expansion and excellence.

E gives me immense pleasure to submit the Re-Accreditation Report to the National Assessment and Accreditation Council, Nagarbhavi, Bengaluru.

Thiruvananthapurar

DR. P.K. RADHAKRISHNAN

#### **EXECUTIVE SUMMARY**

#### Introduction

The Trivandrum Observatory and the University College set up in the 19<sup>th</sup> century created the impetus to conceive of what was originally the University of Travancore. The University College was initially founded as the Maharaja's Free School by Maharaja Swathi Thirunal in 1834 and it soon grew into a college in 1866 affiliated to the Madras University. When the University of Travancore was founded, the Departments of this college became University Departments. The Trivandrum Observatory was founded in 1838 and had the renowned scientist John Caldecott FRS as its first Director. It became a part of Travancore University, but for some time was administered as an independent government institution. It is now the oldest institution in the University of Kerala.

The University of Travancore was established in 1937 by a promulgation of the Maharaja of Travancore, Sri Chithira Thirunal Balarama Varma who was also the first Chancellor of the University. Sir C. P. Ramaswamy Ayyar, the then Dewan of the State was the first Vice-Chancellor, Modelled after the best universities of the United Kingdom, our university later on introduced the system of affiliating colleges. In 1954, the unified state of Kerala came into being with most of Travancore and whole of state of Cochin and Malabar area of Madras presidency becoming part of it. In 1957, the Kerala University Act, Act 14 of 1957, was passed and the University of Travancore was renamed University of Kerala. The University had three campuses located in Thiruvananthapuram, Ernakulam and Kozhikode in the State. In 1968, the University Centre at Kozhikode became the University of Calicut. The Cochin University of Science and Technology - CUSAT - (1971), Kerala Agricultural University (1971) and Mahatma Gandhi University (1983) were subsequently established. The University of Kerala has now in its jurisdiction Thiruvananthapuram, Kollam, Alappuzha Districts and some parts of Pathanamthitta District.

#### **Academic and Support Services**

The University has forty two PG teaching and research departments, including the School of Distance Education under eleven identified Schools. There are thirty two centres, including the Astronomical Observatory, a UGC Area Study Centre, seven university Institutes of Technology (UIT), ten Teacher Education Centres, University Institute of Management with seven Centres and a College of Engineering as its constituent college. The University also has support services like Computer Centre, Central Library, Campus Library at Kariavattom and Department level libraries in the teaching departments and centres, University Press, University Science Instrumentation Centre, Engineering Unit, Health Centre, Department of Student Services, Physical Education Centre, Publications Department, Employment and Information Guidance Bureau, Placement Cell and Finishing School.

#### **Inventory of Teaching, Learning and Research**

- ➤ Eighty two research centres of which some in affiliated colleges apart from teaching departments with around 1000 students and 2000 research scholars
- > 38000 students in the distance education stream.
- ➤ 244 colleges affiliated to the University with about 1 lakh students.
- Academic Staff College functioning under UGC guidelines, which is rated as the best in the country.
- Lakshmibai National College of Physical Education of the University of Kerala is managed by the Sports Authority of India, Government of India.

#### **University Library and Publications**

The Kerala University Library, established in 1942, has over 3 lakh books and over 1000 bound volumes of journals. It is a depository of UN and World Bank publications and provides access to over 9000 on-line journals. The Campus Library at Kariavattom also offers similar services. The Department of Publications, one of the oldest Departments of the University, has brought out a series of glossaries in science subjects, popular science books and translations of classics. The five volumes of Kerala Sahitya Charithram written by Mahakavi Ulloor S. Parameswara Aiyar and the series Sahithya Nayakanmar and the Chitra Ramayana, based on palm - leaf manuscripts are some of its most prestigious publications. In 2003, the University published the first ever complete English translation of *Hortus Malabaricus*, the classical treatise on the plant wealth of Asia and the tropics. Its Malayalam version was published in 2008. volumes of the *Malayalam Lexicon* have been published. The University has been publishing since 1946, the Journal of Indian History, a significant publication on historical studies and research. The first e-book Swathi Tirunal's Bhakthimanjari was published in 2013. A quarterly newsletter entitled *The University Herald* is also published.

#### **Sports and Physical Education**

The Department of Physical Education has gifted to the country outstanding sportsmen and women. The University was the first in the state to have a synthetic track. The construction of a new Stadium with governmental support in Kariavattom is also in progress. The establishment of the Lakshmibai National College of Physical Education in Kariavattom is another landmark in the history of the University.

Another significant development is the starting of several short term courses like TV News reading and Functional English in the Centre for Adult Continuing Education and Extension. The CACEE received the UNESCO - NLM award for Literacy in 2005.

#### **Colleges Affiliated to the University**

The University has 244 affiliated colleges. Of these, 71 are Arts and Science colleges, 6 Law colleges, 42 Engineering colleges, 2 Architecture colleges, 7 Medical Colleges, 50 Teachers' Training Colleges, 4 Ayurveda Colleges, 2 Homeopathy Colleges, 1 Siddha Medical College, 2 Fine Arts Colleges, 1 Music College, 5 Dental Colleges, 5 Pharmacy Colleges and 1 College of Physical Education. Besides these, there are 17 affiliated institutions conducting two year full time MBA, 9 colleges offering MCA and 24 Nursing Colleges, 4 Hotel Management and Catering Technology Colleges, 1 College of Special Education and 2 Paramedical Colleges. The University College of Engineering in Kariavattom Campus offers B. Tech. in Information Technology, Computer Science & Engineering and Electronics & Communication Engineering.

#### **Centres for Research in Special Areas**

In addition to the Departments of teaching, the University also has several centres for studies and research in special areas. The International Centre for Kerala Studies, the UGC Area Study Centre for Canadian Studies, the Centre for Australian Studies, the Centre for Comparative Literature, Sree Narayana Study Centre, Centre for English Language Teaching, Centre for Vedanta Studies, V.K. Krishna Menon Study Centre, Centre for Gandhian Studies, Centre for Women's Studies, Centre for Systems and Synthetic Biology, Centre for Bioinformatics and Centre for Performing and Visual Arts function in the University.

#### **People of Eminence**

The University conferred honorary D. Litt. on Nobel Laureate Prof. Amartya Sen. Other people of eminence honored with D.Litt include Dr. K. J. Yesudas and Dr. Laurie Baker (2003), Prof. O.N.V. Kurup (2007), Dr. G. Madhavan Nair (2007) and Shri. Justice K.G. Balakrishnan (2008), Shri. Adoor Gopalakrishnan, Shri. Mammootty and Shri Umayalapuram K. Sivaraman (2010). The eminent personalities who visited the University in the last five years include President of India Dr. Pranab Kumar Mukherjee, former President of India Dr. A.P.J. Abdul Kalam, Vice President of India Dr. M Hamid Ansari and former Prime Minister Dr. Manmohan Singh.

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# **Profile of the University**

### 1. Name and Address of the University:

Name:	University of Kerala,		
	University Buildings,		
Address:	Palayam, Thiruvananthapuram 695034, Kerala		
City:	Pin:695034 State: Kerala		
Website: www.keralauniversity.ac.in			

#### 2. For communication:

Designation	Name	Telephon e with STD Code	Mobile	Fax	Email
Vice Chancellor	Prof. P.K. Radhakrishnan	O:0471 2306634 R:0471 2598238	8589005347	0471- 2302898	vicechancellor @vsnl.net
Pro-Vice Chancellor	Dr. N. Veeramanikan dan	O:0471 2308532 R:	9446567845		manikandanpvc @gmail.com
Registrar	Dr. K. Mohammed Basheer	O:0471 2305631 R:0471 2305515	9446567815		regrku@gmail.c om
Steering Committee Coordinator	Prof. Gabriel Simon Thattil	O:0471 2303013 R:0474 2374227	9496275305		kuiqac@gmail.c om

# 3. Status of the University: State University State Private University Central University University under Section 3 of UGC (Deemed University) Institution of National Importance Any other (please specify

## 4. Type of University:

Unitary Affiliating



5.	Sour	ce of funding:				
	Centr	ral Government				$\overline{}$
	State	Government				
	Self-f	financing				
	Any	other (please specify)				
6.	a. Date	e of establishment of the	univers	ity:01/11	/1937	
	b. Pr	ior to the establishment of	of the u	niversity,	was it a	n/an
	i	i. PG Centre		Yes		No 🔨
	ii	i. Affiliated College		Yes		No 🗸
	iii	i. Constituent College		Yes		No 🗸
	iv	Autonomous College	:	Yes		No 🗸
	v	Any other (please spe	cify)		.NA	
		yes, give the date of esta	•			
		J = 2, 8 = 1 = 1 = 1 = 1 = 1 = 1			··· )	
7.	Date	of recognition as a unive	ersity by	UGC or	any othe	er national agency:
	Unde	r Section	dd	mm	уууу	Remarks
	i.	2f of UGC*	05	11	1956	
	ii.	12B of UGC *	05	11	1956	
	iii.	3 of UGC #				
	iv.	Any other ^ (specify)				
	# E	nclose certificate of reconclose notification of Ml ampus/ campuses. nclose certificate of reconany.	HRD an	d UGC fo		
8.		he university been recog UGC as a University w		ntial for I	Excellen	ce?
		es No Jate of recognition :			. (dd/mr	n/yyyy)

	b. For its performance by any other governmental agency?
	Yes No
	If yes, Name of the agency and date of
	recognition: (dd/mm/yyyy)
	, , , , , , , , , , , , , , , , , , , ,
9.	Does the university have off- campus Centres?
	Yes No
	If yes, date of establishment:(dd/mm/yyyy)
	date of recognition: (dd/mm/yyyy)
<b>10.</b> D	Ooes the university have off-shore campuses?
	Yes No
	If yes, date of establishment:(dd/mm/yyyy)
	date of recognition: (dd/mm/yyyy)

**11.** Location of the campus and area:

		Location *	Campus area in	Built up area
			acres	in sq. mts
i.	Main campus area	Kariavattom,	367 acres 54	93833.26
		urban	cents	
ii.	Other campuses in	Senate house	35 acres 39 cents	29758.09
	the country	campus,urban		
iii.	Campuses abroad	Nil		

(\* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify) If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

- **12.** Provide information on the following: In case of multi-campus University, please provide campus-wise information.
  - Auditorium/seminar complex with infrastructural facilities –
    Senate hall to accommodate 1800, (Area 800<sup>m2</sup>)
     AC Senate chamber with audio visual facility to accommodate 150, (Area 213<sup>m2</sup>)

Seminar complexes in teaching departments.

- 1. Department of Botany 6272.80<sup>m2</sup>
- 2. Department of Physics 2613.26<sup>m2</sup>
- 3. Department of Aquatic Biology 6000.00<sup>m2</sup>
- 4. Department of Politics
- 5. Department of Economics
- 6. School of Business Management

#### · Sports facilities

#### Playground:

Synthetic Track – 400.00 meter Football Field – 100x120 yard

Volleyball Court – 80x9 meter

Basketball Court – 28x14meter

Boxing hall - 800 sq.ft.

Kho-Khofield -

Multipurpose indoor mini hall -2(800,700 sq. meter)

Swimming pool: Nil

Gymnasium: Fitness Centre – 1000 sq.ft.

Stadium with Flood Lit Gallery

Any other (please specify Sports Hostel

The Department of Physical Education has gifted the Country outstanding sportsmen and women. The University was the first in the State, to have a Synthetic track. The construction of a new Stadium with Governmental support in Kariavattom is also in progress. The establishment of the Lakshmibai National College of Physical Education at Kariavattom,managed by the Government of India, Sports Authority of India, is another landmark in the history of the University.

#### Hostel

#### Boys' hostel

i. Number of hostels - 2

PG Students hostel-1, Research hostel-1

ii. Number of inmates

(PG - 80), (Researchers-100)

iii. Facilities – Entertainment facility, Play area, Mess, Office, Kitchen, Waiting room

#### Girls' hostel

i. Number of hostels - 3

PG Hostel

Kariavattom campus- 1, City Cmpus-1

Research hostel-1

ii. Number of inmates

(PG-215), (Researchers-107)

iii. Facilities – Entertainment facility, Play area, Mess, Office, Kitchen, Waiting room.

#### Working women's hostel - Nil

- i. Number of hostels
- ii. Number of inmates
- iii. Facilities

• Residential facilities for faculty and non-teaching

```
6 Nos - 977.88<sup>m2</sup>

    A type Quarter building

                                                  23 Nos -3599.50<sup>m2</sup>
o B type
o C type (old tiled roof)
                                                   10 Nos -1200.00<sup>m2</sup>
                                                   18 Nos -1980.00<sup>m2</sup>
o Ctype (RCC roof)
                                                   10 Nos-1167.60<sup>m2</sup>
o D type (old tiled)
                                                  13 Nos -1377.74<sup>m2</sup>
o D type (RCC)
                                                   10Nos- 662.90<sup>m2</sup>
o E type (tiled roof)
                                                  29 Nos- 1890.80<sup>m2</sup>
o E type (RCC roof)
                                                  10 Nos -510.00<sup>m2</sup>
o F type (old tiled)
                                                   18 Nos- 1656.00<sup>m2</sup>
o F type (RCC roof)
```

#### Cafeteria

Four Cafeterias

City campus  $-1 (170.00^{\text{m2}})$ 

Kariyavattom campus – 1 (365.25<sup>m2</sup>)

Two others in the Kariyavattom campus

#### Health Centre

Nature of facilities available - Inpatient, outpatient, ambulance, emergency care facility, etc.

There are separate Health Centres in the City Campus and the Kariavattom Campus

City Campus –  $270^{m2}$ Kariavattom Campus –  $364.69^{m2}$ 

The Health Centre in the city campus is a neatly maintained institution.

#### Facilities available

- a) Facility for detailed examination of patients including student and staff.
- b) Facility for dispensing of medicines for the patients.
- c) Facility for cleaning and dressing of wounds.
- d) Facility for infrared radiation for sprains and aches.
- e) Facility for nebulisation for asthmatic patients.
- f) Facility for height and weight measurement.
- g) Facility for BP recording using mercury sphygmomanometer.
- h) Facility for ECG recording to detect cardio vascular diseases.
- i) Facility for routine examination of Blood, Urine and Motion.
- j) Facility for giving intravenous fluids like Dextrose, Normal saline and Ringer lactate etc for sick patients.

In the Health Centre at Kariavattom medical check-up facilities are provided for students from 14 Government Colleges and 28 Departments of the University of Kerala are. The students of Institute of Distance Education do visit for health check-ups in the Health Centre. The lists of students who visit the Health Centre are maintained in the record book. The different modes of check-ups includes Height, Weight, Blood Pressure, and Haemoglobin content, Urine sugar Albumin, Vision testing, Hearing and examination of mouth and teeth.

Students with sickness who need special attention are referred to specialist doctors. who visit the University health centre. Special care is given to students in addition to the general health check-ups.

The other health services available at the health centre are follows.

- 1. Dressing
- 2. Injection Tetanus Toxoid
- 3. Random Blood Sugar
- 4. ECG
- 5. Steam Inhalation

#### **Outpatients**

As per records, 3500 out patients visited Health Centre for medical checkups during the last academic year.

#### Facilities like banking, post office, bookshops, etc.

The University has Bank branches in both its campuses with ATM facilities. Similarly, there are post offices on both the Campuses. Stationery, Books, and other materials are available in separate shops managed by the Employees Co-operative Society. There is a separate University Curio shop in the main campus at Palayam. Canteen facility is available in boththe campuses.

Transport facilities to cater to the needs of the students and staff
 The University operates bus services from different part of the city to cater to the needs of the students and staff. The University owns vehicle as listedbelow.

Sl.No	Type Of Vehicle	Number
1.	Bus	7
2.	Car	13
3.	Multi Utility Vehicle	11
4.	Two Wheeler	4

#### • Facilities for persons with disabilities

Lift facility is available in main campus for handicapped. Ramps for varies building accommodating teaching departments are under construction. Teaching departments have arranged to accommodate classes for the handicaps in the ground floor.

#### • Animal house :

The Department of Zoology has an animal house facility to keep animal for the experiments. The animal house is working as a part of the animal house facility in Department of Biochemistry, whichis accepted by the Institutional Animal Ethics Committee. The animal house is periodically checked by the Veterinary Surgeon in the Biochemistry Department. Presently mice and ratare housed for the conduct of various experiments.

Another animal house is located in the Department of Biochemistry, spanning over an area of 3500 sqft which caters to the requirement of experimental animal of the Department.

#### Strengths:

- 1. The animal house is registered with Committee for the Purpose of Controland Supervision of Experiment on Animals (CPCSEA), Ministry of Environment and Forest, Government of India since June 2000. Theactivities of animal house are performed, controlled and regulated as per the Standard Operating Procedures and in accordance to CPCSEA norms. Only animal experiments approved by the Institutional Animal EthicsCommittee(IAEC) are followed to be done. It is the only registered/authorized animal house facility in the University
- 2. A full time Veterinary Surgeon is present to provide veterinary care and tolook after the ancillary aspects of the veterinary care.
- Power house

11 KV Substation feeder Details Transformer-I (315KVA, 11/.4KV OLTC)

Transformer-II (315 KVA, 11/.4KV OLTC)

• Waste management facility

Centralized non-mechanize waste clearing system.

In addition, the University has:

Observatory with sky watch facility and majorAerospace learning support.

Guest House Facility

University Press- well-equipped off-set Press-1208.00 m<sup>2</sup>

University Employees Cooperative Society-300.00<sup>m2</sup>

University Employees Housing Society

#### **13.** Number of institutions affiliated to the university

Type of College	Total	Government	Private
Arts, Science and Commerce Colleges	71	47	24
Law	6	1	5
Medicine	7	2	5
Engineering	42	5	37
Architecture	2		2
Fine Arts	2	2	
Music	1	1	
Physical Education	1	1	

Training	50	7	43
Special Education	1		1
Nursing	24	2	22
Ayurveda	4	1	3
Siddha Medical	1	1	
Homeopathic	2	2	
Dental	5	1	4
Pharmacy	5		5
Management	17		17
Computer Application	7		7
Hotel Management and Catering Technology	4		4

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

Yes	<b>✓</b>	No		Number - 2
-----	----------	----	--	------------

**15.** Furnish the following information:

	Particulars	Number	Number of Students
a.	University Departments		
	Undergraduate	Nil	
	Post graduate	47	816
	Research Centres on the Campus	44	860
b.	Constituent colleges	1	666
c.	Affiliated colleges	242	108706
d.	Colleges under 2(f)	2	2958
e.	Colleges under 2(f) and 12B	59	52315
f.	NAAC accredited colleges	21	21579
g.	Colleges with Potential for Excellence (UGC)	3	6853
h.	Autonomous colleges	2	3500
i.	Colleges with Postgraduate Departments	62	56814
j.	Colleges with Research Departments	36	22438
k.	University recognized Research	46	1105
	Institutes/Centres		

16.	Does the university conform to the specification of Degrees as enlisted by the UGC?
	Yes No
	If the university uses any other nomenclatures, please specify.

17. Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered)

Programme	Number
UG	Nil
PG	47
Integrated Masters	1
M. Phil.	39
Ph.D.	41
Integrated Ph.D.	Nil
Certificate	3
Diploma	2
PG.Diploma	3
TOTAL	136

# **PG Programmes offered under CSS**

Sl. No.	Name of Course
	M.Sc.
1	Aquatic Biology & Fisheries
2	Bio-Chemistry
3	Biotechnology
4	Botany
5	Chemistry
6	Communication & Journalism
7	Computer Science
8	Demography

9	Environmental Sciences
10	Geology
11	Mathematics
12	Physics
13	Statistics
14	Zoology
15	Computational Biology
	M.Com
16	Commerce
	M.A
17	Arabic
18	Archaeology
19	Economics
20	German
21	Hindi
22	History
23	Institute of English
24	Islamic Studies
25	Library Science (M.Lisc)
26	Linguistics
27	Malayalam
28	Music
29	Philosophy
30	Politics
31	Psychology
32	Sanskrit
33	Sociology
34	Tamil
35	Russian
36	Education (M.Ed.)
37	Law (LLM)

	M.Phil
38	Bioinformatics
39	CADD
40	Computational Linguistics
	M.Tech.
41	Optoelectronics
42	Computer Science
43	Technology Management
44	MBA
	Others
45	MSW
46	Acturial Science
47	Integrated Biology
	Total 47

## PG Diplomas offered in the University campus

PG Diploma	Centre/ Department
PG Diploma in English Communication	Institute of English
Diploma in German	German
Integrated Diploma in Russian	Russian
Diploma in Functional Malayalam	Linguistics
P G Diploma in Knowledge Management	Future Studies
P G Diploma in communicative Engineering	Opto Electronics
P G Diploma in Geo Information Science and Technology	UCGIST
Diploma in translational Studies	Centre for Translational Studies
Diploma in Health and Sanitation, Diploma Physiotherapy, PG Diploma in Counselling, PG Diploma in responsible tourism	CACEE
PG Diploma in Human Rights	Dept. of Law

Besides the above, certificate courses are offered in the Departments of English, German and in the Centres as given below

Centre	Course
Centre for Cultural Studies	Film appreciation
Centre for English Language Teaching	Communication skills Writing skills
Centre for Gandhian Studies	Gandhian thought
German	German L:anguage

	Germa	an	German L:anguage						
18.	Number	of working days during the last ac	cademic year. 248						
19.	Number	ber of teaching days during the past four academic years.							
	2010-20	2011-2012 2012-2013	2013-2014						
	174	178 182	176						
		ing days' means days on which clanot included)	sses were engaged. Examination						
20.	Does the	university have a department of T	eacher Education?						
	Yes	No No							
	If yes,								
	a.	Year of establishment05/11/19	956 (dd/mm/yyyy)						
	b.	NCTE recognition details (if appl	licable) Notification						
		No.F.KL/M.ED/04/SRO/NCTC/2	· · · · · · · · · · · · · · · · · · ·						
		Date:20-11-2001 (dd/mm/y	ууу)						
	c.	Is the department opting for separately?	assessment and accreditation						
		Yes No							
21.	Does the	university have a teaching departr	nent of Physical Education?						
	Yes	No 🗸							
	The Uni facility If yes,	versity has a separate centre for Ph	nysical Education with extensive						
	a.	Year of establishment (dd/	/mm/yyyy)						
	b.	NCTE recognition details (if appl Notification No.:	licable)						

Date: ..... (dd/mm/yyyy)

	c.	Is the separate	-	opting	for	assessment	and	accreditation
		Yes	No	<u> </u>				
22.			rivate and L rammesare b				se ind	icate whether

If yes, please enclose approval / recognition details issued by the statutory body governing the programme.

**23.** Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

NA

Yes

**24.**Number of positions in the University

No

Positions	Teaching fa	aculty	Non- teaching staff	Technical staff	
	Professor	Associate Professor	Assistant Professor		
Sanctioned by theUGC / University / State	45	74	126		
Recruited	32	50	94	1556	47
Yet to recruit	13	24	32		
Number of persons working on contract basis			54	744	158

**25.** Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt							
Ph.D.	20	12	27	21	43	43	166
M.Phil.			1	1	3	3	8
PG					1	1	2

Temporary teachers							
Ph.D.							
M.Phil.							
PG					32	22	54
Part-time teache	Part-time teachers						
Ph.D.							
M.Phil.							
PG					10	22	32

**26.** Emeritus, Adjunct and Visiting Professors.

	Emeritus	Adjunct	Visiting
Number	8	2	15

**27.** Chairs instituted by the University:

School / Department	Chairs
Dept. of Law	Ambedhkar Chair
History	Mahatma Ayyankali Chair
Politics	V.K. Sukumaran Nair Chair for Parliamentary Affairs

**28.** Students enrolled in the university departments during the current academic year, with the following details: (excluding distance education)

Students	UG	PG		Integ Mast	rated ers	M. Pł	nil.	Ph.		Integrat edPh.D.			Cert ate	tific	Dip	loma	PG Dip ma		Tota	al
	*M *F	*M	*F	*M	*F	*M	*F	*M	*F	*M *F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*
From the		184	518			37	93	579	1096				14	8	8	12	27	48	849	1775
state where the university is located																				1770
From other states of India		42	67			16	32	22	63										80	162
NRI students																				
Foreign students		3	2			2	1	87	118										92	121
Total		229	587			55	126	688	1277				14	8	8	12	27	48	1021	2058

<sup>\*</sup>M - Male \*F - Female

#### 29. 'Unit cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

- (a) Including the salary component =Rs. 5.745 Lakh
- (b) Excluding the salary component = Rs. 3.481 Lakh
- **30.** Academic Staff College
  - Year of establishment : 1987
  - Number of programmes conducted (with duration)
    - \* UGCOrientation: 137 (28 Days per course)
    - \* UGC Refresher : 442 (21 Days per course)
    - \* University's own programmes: 10 (2 to 5 days)
- **31.** Does the university offer Distance Education Programmes (DEP)?

Yes / No		<b>/</b>	No	
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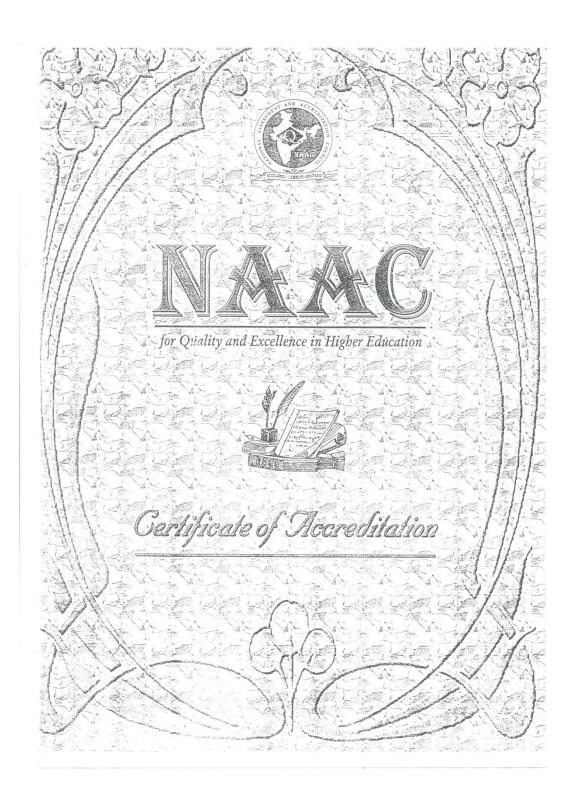
If yes, indicate the number of programmes offered. Are they recognized by the Distance Education Council?

#### Courses Offered:

B.A.	History, Economics, Sociology, Politics, Malayalam, English, Afsal-ul-ulama.
B.Sc.	Mathematics
B.Com	Accounting, Additional Elective Cooperation
B.CA.	
M.A.	English, Malayalam, Hindi, Sanskrit, Tamil, Music, Philosophy, Economics, History, Sociology, Public Administration, Islamic History, Arabic, Political Science, Master of Human Resource Management, Master of Hospital Administration, MBA, MLISc, MHSc,
M.Com	Finance
M.Sc.	Mathematics, Computer Science,
PG Diploma	Marketing Management, Travel and Tourism Management, Human Resource Management, Education Planning Management and Administration, Health and Hospital Administration, Communication and Journalism, Adolescent Pediatrics, Child, Adolescent and family Counselling, Developmental Neurology, Health Science.
Certificate	Communicative Hindi, Communicative English

<i>32.</i>	Yes No No						
	If yes, how many students avail of this provision annually?						
33.	Is the university applying for Accreditation or Re-Assessment? If Accreditation, name the cycle.						
	Accreditation: Cycle 1 Cycle 2 Cycle 3 Cycle 4						
	Re-Assessment:						
34.	Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and reassessment only)						
	Cycle 1:21/03/2003 (dd/mm/yyyy), Accreditation outcome/Result B++						
	Cycle 2: (dd/mm/yyyy), Accreditation outcome/Result						
	Cycle 3:(dd/mm/yyyy), Accreditation outcome/Result						
	Cycle 4:(dd/mm/yyyy), Accreditation outcome/Result  * Kindly enclose copy of accreditation certificate(s) and peer team report(s)						
	(Peer team evaluation report and copy of accreditation certificate enclosed annexure)						
	Annexure I: Certificate						
	Annexure II: Peer Team Evaluation Report						
	Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated/constituent/autonomous 03/03/2009 colleges under the university.						
	Not given in the website, details of colleges given in question number 15						
35.	Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).						
	IQAC 10/05/2005 (dd/mm/yyyy)						
	AQAR (i) 03/03/2009 (dd/mm/yyyy)						
	(ii) 03/03/2009 (2006-07) (dd/mm/yyyy)						
	(iii) 03/03/2009 (2007-08) (dd/mm/yyyy)						
	(iv) (dd/mm/yyyy)						
36.	Any other relevant data, the university would like to include (not exceeding one page).						

## Annexure I









# राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

# Certificate of Accreditation

The Executive Committee of the National Assessment and Accreditation Council on the recommendation of the duly appointed Peer Jeam is pleased to declare the

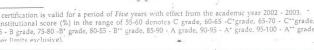
> University of Kerala Thiruvananthapuram, Kerala as

Accredited '
at the B++ level <sup>2</sup>.
(among the Universities)

Date: March 21, 2003



Infinai Director

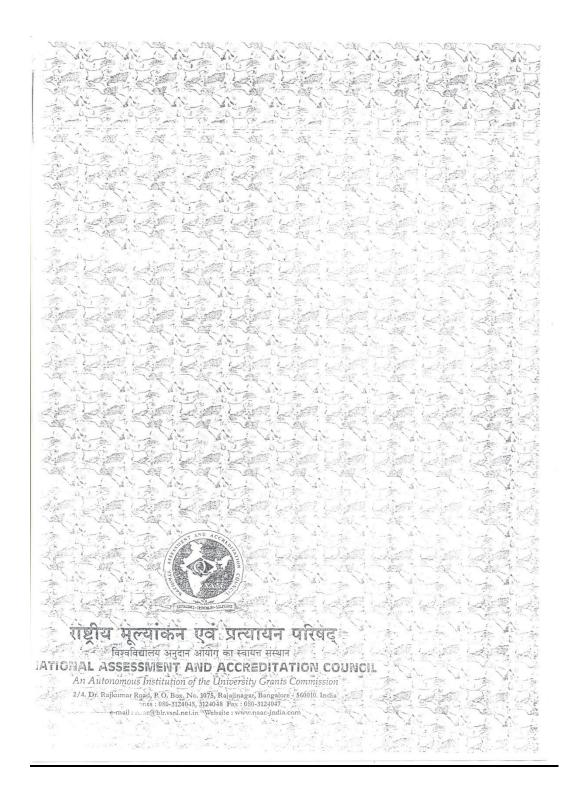




Name of the Institution: University of Kerala
Place: Thiruvananthapuram, Kerala

Criterion	Criterion Score (Ci)	Weightage ( Wi)	Criterion X Weightage (Ci x Wi)
I. Curricular Aspects	85	15	1275
II. Teaching-learning and Evaluation	85	25	2125
III. Research, Consultancy and Extension	80	15	1200
IV. Infrastructure and Learning Resources	80	15	1200
V. Student Support and Progression	80	10	800
VI. Organisation and Management	75	10	750
VII. Healthy Practices	80	10	800
		100	$\Sigma C_i W_i = 8150$

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#### **Annexure II**

#### Report of the Peer Team On Institutional Assessment and Accreditation of the University of Kerala

#### March 09 - 14,2003

#### **Section 1: Introduction**

Originally established as the University of Travancore, on November 1, 1937, it is now the University of Kerala after the formation of the state of Kerala in 1956. Thus, it is not only the oldest University in Kerala, but also one of the oldest in whole of India. Others came to be known as Universities in Kerala such as Mahatma Gandhi University established at Kottayam and CUSAT at Cochin came into existence much later. The University of Kerala has always been striving hard to fulfil its goals embodied in its motto which stands for the duality of knowledge and action and avows that true knowledge manifests itself in action. The university also has a clear vision statement reflecting the complete range of academic activities of the University including the development of affiliated Arts and Science colleges and emphasizes on upgrading and maintaining the quality of higher education and launching innovative courses keeping in view the changing national and global scenario.

The University as it is today consists of 41 PG teaching and research departments, 14 centres on area studies, seven university Institutes of Technology, (UIT), ten Teacher Education Centres and a college of engineering. The University has support services like Computer centre, Library, University Press, University Science Instrumentation Centre, Engineering Unit, Health Centre and Department of Student Services.

The university has two campuses namely the main campus at Kariavattom, accommodating 32 academic departments and the city campus accommodates 9 departments. The university operates some programmes like UITs, Teacher Education centre and the college of Engineering on the self financing mode with about 3000 students. All other regular PG programmes account to a student strength of 2200 with about 200 teachers on roll both regular and contract appointments. The administrative set up in the main campus consists of regular administrative sections and also a coordinating unit for CSS.

The university has been adopting various measures to keep up with the changing scene in education in terms of curriculum, syllabi, pattern of imparting education, examining system and also administrative reforms including the self-financing courses. These aspects have been considered using the criterion wise analysis in the following pages.

The University has submitted self-study report (SSR) as per the guidelines and volunteered for assessment and accreditation by National Assessment and Accreditation Council (NAAC), Bangalore. The peer team constituted by NAAC consists of Prof. K.L. Kamal, former Vice-Chancellor, University of Rajasthan, as Chairperson and Prof. B. Viswanathan, Department of Chemistry, Indian Institute

of Technology, Chennai; Dr. T.A.V. Murthy, Director, INFLIBNET, Ahmedabad, Prof. B.L. Barnes, Professor of Psychology (Retd.), SNDT Women's University, Mumbai and Dr. R. KarpagaKumaravel, Department of Educational Technology, Bharathidasan University, Tiruchirapalli as members. The peer team visit is coordinated by Dr. G. Srinivas, Deputy Adviser, NAAC and assisted by Shri V. Uma Shankar, NAAC. The team after visiting all its constituents, careful analysis of documents, data, interacting with statutory officers, faculty, staff and students has prepared this report as per the frame work of NAAC

#### **Section II:** Criterionwise analysis

#### **Criterion 1: Curricular Aspects**

For any university which strives to be a leader in education, Curricular aspect is the most important component and this should be dynamic and also flexible to adopt to the changing situations and demands arising out of the changes in the manufacturing and development process of the surroundings and the country as a whole. If this criterion were to be adopted many of our educational institutions may not fulfill these needs in the appropriate time scale as their reforming and reformatting processes of their curriculum is a long and time consuming one and in this sense the University of Kerala also has miles to go even though they seem to have dynamic system. This may perhaps be associated with the university's long chain of controls, which are safety measures, but the University is well advised to remove the bottlenecks for the implementation of new programmes in time, keeping in view the fast changing technological revolution.

For example this University conducts as many as 186 programmes mostly PG, M.Phil and Ph.D and these must be highly dynamic systems since at this level the rate of obsolescence is high and also the demands are controlled by the rapid changes that take place in Science and Engineering.

This university also conducts another 300 courses in the affiliated colleges and the system has to be made more dynamic and procedures have to be evolved for this. The university has been introducing vocational subjects at the first degree level, restructuring the existing programmes including vocational components, field training, project works etc and by offering short complementary programmes such as certificate diploma etc. A University which aims to achieve excellence in its educational standards, the relevance of these types of structured diploma and certificate courses has to be evaluated carefully. All the PG progrmmes in the Departments of the university have been restructured under credit and semester system to give academic autonomy and flexibility and also probably innovative and need based course can be designed depending on the special interests and aptitudes of teachers and requirements of the students. However no data could be provided to substantiate these ideal postulates. Secondly no comparison is provided how far these new concepts have improved the teaching learning processes in the university. How far the new concepts have given rise to new

evaluation procedures and how the changes and their effects have been monitored have not been made clear.

The university has claimed many aspects in their CSS scheme and the concept of modular curricula really needs careful examination in Indian context whether it can give rise to all round development in curricular capabilities of the students. No evaluation data are available to make judgments on how these modular concepts of curricula has specially suited to this university and how the university has responded to the immediate needs of the surroundings and also to that of the nation? Teacher evaluation has been introduced in this university but typical data and evaluation procedure need to be examined thoroughly.

The experience of semesterisation of the PG programmes in affiliated colleges has to be examined in the context of adopting them in various other educational institutions in the country. Secondly the feedback system from affiliated colleges and the universities response time and mode of response have to be examined for suitable adoption elsewhere.

Board of studies (83 in number) are the vital links between the university and academic programmes. The chain of implementation is through academic council based on the recommendations of boards of studies and expert committees. The university could have taken some typical examples and explained how the recommendations are carried through in time scale and also in the spirit of the origin of the recommendations.

However, it is heartening to note that syllabi are revised regularly, once in three years. The CSSwas introduced in 1996 itself.

Project work appears to be a universal unique identity of this university. This is a special feature that deserves to be adopted at other universities.

The university, according to their mission statements, has generated manpower in emerging areas by designing new courses.

#### Criterion 2: Teaching, Learning and Evaluation

The university adopts within the statutory reservations, a student selectivity pattern based on entrance examination or on the basis of student's knowledge and aptitude. In general the departments are attracting best students from within the state of Kerala but not so much from other states. This aspect has to be looked into especially in the context that education is to be a global demand today.

The semester system administered, and monitored by the department council is based on continuous assessment procedure and 40 % weightage being given for continuous assessment and 60% for the end semester examination. The exact procedure followed can be evaluated periodically by an internal system and suitable remedial measures can be taken to avoid subjectivity and favoritism.

The teaching staff strength (179 regular staff, + 21 contract appointments + 41 part-time faculty) appears to be low at the rate of 4.25 per department and this

may be lower in some departments. This is one aspect the university should consider taking into account the strength of the university in certain disciplines. The teaching faculty seems to have good record of research, refresher course conducting and attendance and conducting, participating in national and international conferences. However 35 positions have already been notified.

Teachers' selection procedure appears to be well formulated but it is also to be seriously thought that more than 50 faculty positions are still vacant. Another aspect of concern is the average age of the faculty is above 50 and this also needs careful attention. Teacher evaluation can be assessed periodically.

Linkages with other institutions are in the form of MOUsand also students carrying out project work in other institutions. A record and evaluation of these linkages would be useful in terms of joint publication or participation of the scientists of other institutions in the activities of the university.

The extension activities and field placement for hands on experience are implemented in some departments. The examining system is organized well and it can be modernized.

In distance education, the lessons and other materials have to be structured in the self-instructional modular form and instructional system has to be supplemented by multimedia learning processes.

#### **Criterion 3: Research, Consultancy and Extension**

Research activities in the university are centredonvarious research programmes like M.Phil and Ph.D. The distribution of students in various departments in each of these disciplines is given in the following table.

S.No	Department	Ph D
1.	Aquatic Biology and Fisheries	53
2.	Arabic	-
3.	Archaeology	-
4.	Biochemistry	39
5.	Biotechnology	-
6.	Botany	9
7.	Chemistry	23
8.	Commerce	20
9.	Communication & Journalism	1
10.	Computer science	2

11.	Demography	8
12.	Economics	15
13.	Education	11
14.	Institute of English	13
15.	<b>Environmental Science</b>	3
16.	Futures studies	5
17.	Geology	4
18.	German	1
19.	Hindi	8
20.	History	7
21.	Institute of Distance Education	2
22.	Library &Information Science	2
23.	Linguistics	1
24.	Institute of Management in Kerala	2
25.	Islamic Studies	-
26.	Law	1
27.	Malayalam	2
28.	Mathematics	2
29.	Music	1
30.	Optoelectronics	2
31.	Oriental Res. Inst& Manuscript library	9
32.	Philosophy	1
33.	Physics	13
34.	Political Science	10
35.	Psychology	10
36.	Russian	1
37.	Sanskrit	9

38.	Sociology	8
39.	Statistics	3
40.	Tamil	6
41.	Zoology	14

The data in this table is a direct reflection of the strength of the research activity in each of the department. Another way of looking at this information is publication from each of the departments and the relevant data are given in the following table.

S.No	Department	Number of Ph D per faculty	Number of publications per faculty
1.	Aquatic Biology and Fisheries	6.6	11
2.	Biochemistry	4	31
3.	Chemistry	3.3	11.3
4.	Commerce	3	12.3
5.	Economics	3	9.4
6.	Education	2.75	8
7.	Institute of English	1.6	6
8.	Hindi	2.7	12
9.	History	1.75	5.5
10.	Malayalam	0.33	8.8
11.	Physics	2.2	13.5
12.	Political Science	1.4	11.3
13.	Psychology	2	2
14.	Zoology	2.8	8.8
15.	Library & Information Science	0.4	8.8

The data given in the table above shows that one third of the departments are reasonably performing well with respect to research activities. The departments are pursuing research in Thrust areas.

The Departments have also been engaged in carrying out sponsored projects executed projects Botany (8), Biochemistry(10,4), Physics (5,2), Computer science (4), Demography (4,3), Aquatic Biology and Fisheries (10,10), Economics (3,6) Political Science (2,2) and Zoology totaling nearly 10 departments which is only about 25% of the total number of departments. (The numbers in the brackets

refer to the number of completed projects and the number of on-going projects. The various linkages with other research organizations have been mentioned and the level of interactions is evaluated.

The university staff has won several awards, honors and fellowships and the university also has recognized by conferring eminent persons with D.Sc or D.Litt degrees. Research consultancy is specific to some departments (Botany, Demography, Kerala Studies, Oriental Research Institute and Commerce. Aquatic biology and Fisheries and Futures studies) and this can be strengthened and local needs can be effectively utilized for the growth of this activity. Some departments have obtained UGC assistance under the SAP status in the form of DRA and COSIST, like the Aquatics Biology and Fisheries, Education Botany.

Various extension activities in the form of exhibition, popular science lectures, and campaigns have been organized by the university. More than 15 professional societies are having branches in the university and this is a healthy trend for possible interaction with other peers in various areas.

The university departments have been considered for special assistance programme and other supports by the national agencies and also the university have also evolved various facilitating mechanisms for monitoring and improvement of their research programmes. All these activities are desirable but the working of these activities needs some kind of monitoring.

# **Criterion 4: Infrastructure and Learning Resources**

The university has nearly 400 acres of land at Kariavattom campus, the senate house campus in the city and the information and study centres.

The facilities provided in these campuses are: 32 departments of teaching and research, Engineering Unit, Campus administration Unit, CSS office, University science instrumentation centre, academic staff college, campus library, the VCs quarters, health centre, two women's hostels, men's hostels, teacher's hostel, guest house, cafeteria. Quarters and other facilities are provided in the Kariavattom campus. The construction and maintenance of the buildings and roads and services are under the Engineering unit, the administration by the administrative unit while CSS office takes care of the academic programmes of the departments. The sports facility is provided in the city campus and the mobility is provided for in terms of 4 buses and 10 small vehicles.

In addition to support to maintain the laboratories, the university has provided for facilities like animal house, green house, herbarium, Insectariums and observatory. Some special laboratories are provided for, which include Radio tracer laboratory, Tissue culture laboratory, Molecular biology laboratory, Microbiology laboratory, Materials Science Laboratory, Physics Laboratory, nano structured materials laboratory, Thin film laboratory, Optical communication laboratory, spectroscopy laboratory, speckle interferometry laboratory, computer laboratory, language laboratory, photography and dark rooms, cold rooms, radio field station, etc. A special instrumentation facility is provided for with a few of

spectroscopic techniques. Adequate class room facilities are available and few rooms have necessary project ional facilities.

The library and the services are the best possible and modernization of the library facilities with 64 kbps connectivity is already established.

The university has a University science instrumentation service for servicing instruments.

The physical education department is maintaining a good synthetic tract for athletes and also has enough gymnasium facilities.

Each of the departments is having an well-organized departmental library.

The computer centre of the university is also performing various other services for computerization of data and other details. University health centre attends to the medical needs and monitoring of the health of staff and students. The university has embarked on a campus wide networking.

# **Criterion 5: Student Support and Progression**

The university has many fellowships including the national fellowships offered by CSIR, UGC, ICMR, ICHR, and ICSSR for the research scholars. However, all the research scholars are given fellowship by the university in the form JRF and SRF. The Alumni association is organized on the department basis and has been contributing to the growth of the department in terms of support for infra structure and even for placement. However there is no overall central/apex Alumni association for the University and this may be soon formed since this is a strong link for outside world through the university's own products.

The University has given representation to the students in the academic council, senate and also syndicate. This is a healthy trend. The students have access to the highest academic policy making bodies and hence they can directly represent the matters of concern to the authorities.

The University has a well-established students Union and the elected body is said to be performing constructively in the growth of the University.

Department of Physical education is one of the oldest in this country and the activities have been well organized to develop and nurture talented sports men and women of quality and the university can be proud of this achievement.

#### Criterion 6: Governance, Leadership and Management

The university administration is organized in a hierarchical framework with Vice chancellor, Pro Vice - Chancellor and Registrar, controller of Examinations and Finance officer at the apex. The administrative set up of the university for both academic and administrative purposes follows the general scheme of any Indian Universities like syndicate, senate, academic council, Faculties, Boards of studies, student councils and finance committee. As any other system there is a long

chain of administrative controls and one has to see how the chain functions efficiently and effectively in time. The department councils seem to function effectively to organize the normal activities of each of the departments. This is a good system since the chain length is considerably reduced and action oriented efforts can be taken.

The university takes special care to ensure that any major academic reform is supported firmly by adequate administrative measures. The timely steps taken by the university in organizing a separate administrative section in the campus for monitoring and coordinating CSSprogramme was one of the principal factors contributing to the success of this academic reform. Similarly the administrative action taken as a follow up of the approval of regulations of the PG semesterisation in colleges, organizing workshops for college teachers, monitoring of the programmes by a university level committee, computerization of the work relating to this, helped in the introduction of this major academic reform in colleges.

The academic programmes for the university and affiliated colleges are prepared and monitored by the CSS divisions and the university level monitoring committee and this is a good working procedure.

Admission to the Ph.Dprogramme is fully transparent and acceptable, but how the admissions are done for other courses and especially for affiliated colleges and how transparent the system is not clear yet.

The university has about 1850 supporting and administrative staff and the staff ratio to teacher appear to be very high more than 7:1 and this can be partially due to the higher number of affiliated colleges.

However, administrative reforms are the urgent needs of the University. Planning board should be constituted.

The computerization of the activities of the university functions have been carried out in a systematic manner and it is good that the university has responded positively and also at the appropriate time for this change.

The university has a number of good and ongoing welfare schemes for students, staff and faculty and they have established good grievance redressal mechanism in the university. It is really commendable particularly that there prevails a high level of harmony in the University and almost all the segments seem to be satisfied with the grievance redressal mechanism.

Examination is an essential component of any university and it is a mammoth exercise for affiliated universities. The conduct of examination, the timely announcement of results and also addressing the complaints are activities requiring high level of efficiency and accuracy and the university fulfills these obligations effectively.

Finances of a university is always a problem since they have to raise the required grants in various forms and from various agencies and maintain a high level of

expenditure control so that the essential activities of the university do not suffer for want of funds. The financial burden of the University has assumed many dimensions due to increased cost of conducting examinations, pension liability and hence the receipts and expenditure have to be carefully monitored and expanded. The administrative system may be modernized to further effectively facilitate the implementation of the academic programmes.

The conventional budgeting and auditing procedure are followed and the system appears to work well.

The university has devised to increase its resources in a number of ways like distance education programme, promoting industry-university interaction through consultancy (though it can be improved considerably), and Department Development Fund an innovative idea for fund raising at the non-centralized manner. All these efforts seem to bear fruits to the university.

#### **Criterion 7: Innovation and Best Practices**

Being the oldest university in the state it had to set up healthy and sound practices which could be adopted by other educational institutions in the state. The practices are essentially to ensure decentralized decision making, transparency, dispensing of quality services, maintenance of standards of teaching and research, regularity of conduct of examinations and publication of results, confidentiality of examination, rigor and fairness of evaluation, and optimum unitization of infrastructure and resources. Several innovative and unique practices have been developed that adds to the academic ambience. These include:

- 1. Mechanism of internal quality check and monitoring
- 2. Standard and conventional procedure for budgeting and auditing
- 3. IT enabled services and programmes
- 4. Complementary academic programmes including private registration, career oriented vocational courses short term skill oriented programmes.
- 5. Meeting of the institutional goals and missions and setting them at high levels
- 6. Educational reforms
- 7. Value orientation
- 8. Vision statement
- 9. Establishing linkages and strengthening existing linkages
- 10. Formulating industry and academia interaction
- 11. Ensuring academic freedom
- 12. Formulating reward and promotional facilities
- 13. Establishing a workable public interface and nurturing them suitably so that maximum benefits can be derived.
- 14. Establishing sound procedures for student recruitment and enrollment

In all these 14 heads the University of Kerala has been devoting attention though some of them may require some evaluation strengthening and also alterations. On the whole the University appears to have established healthy and sound practices.

# **Section 3: Overall Analysis**

The peer team suggests the following measures to the university and government authorities to sustain its past glory and eminent status.

- 1. This being the oldest University in the state, it had necessarily to formulate and practice sound healthy procedures and traditions and the university is on its way to fulfilling this obligation.
- 2. Though the university has established various linkages and mechanism for the linkages, the operating of these MOUs and other societal connections need to be examined and evaluated. In view of the emerging globalization international linkages can be explored.
- 3. Industry academia collaboration is one aspect, which can be further strengthened
- 4. Research efforts can be more site and state specific and many departments can devote more efforts in research. The active percentage appears to be considerable.
- 5. The curriculum development introduction of credit system at the PG levels the semester pattern for even affiliated college PG programmes are noteworthy but similar efforts have to be placed on other UGprogrammes and other vocational programmes as well.
- 6. The utility and relevance of other diploma, certificate courses have to be evaluated.
- 7. It is also necessary the university carries out research on some frontier areas and some centres of excellence can be nurtured.
- 8. The university has formulated vision statement and appears to care for quality in its various functions. This is a tall order and has to be strived constantly.
- 9. Curriculum development and implementation are two essential aspects of any university and the conduct of examinations and announcement of results in correct time are the litmus test for any university. The University of Kerala can be given credit for these activities.
- 10. The university with diverse disciplines and multidisciplinary faculty it is ideally suited to create centres of excellence in emerging areas and the University should consider this aspect.
- 11. The university can also devise other methods of revenue generation especially in education marketing, consultancy services and other activities.

- 12. Medicinal and herbal garden activities can be explored.
- 13. The university on the basis of its strength with affiliated colleges and also its own press should also be in a position to generate educational kits, books, and other instructional material for market.

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	<ol> <li>The high and unique cultural heritage manuscripts available in the University needs to be digitized.</li> </ol>			
	15. The digital mapping of Kerala may be done by the University within the framework			
	of their academic programmes.			
	The university on the whole, is in a stage of the off with dynamism, and innovation the			
	University can attain a unique status in the country.			
	The peer team deeply acknowledges the cooperation and support extended to it by the			
	university authorities.  B. W. C. S. W.			
	(Prof. K.L. Kamal) (Prof. B. Viswanathan)			
	Chairperson Member			
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	Vice-Chancellor			
	University of Kerala			
	( TRIVANDRUM ) >			
	Date : March 13, 2003			
	Place : Thiruvananthapuram, Kerala			
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# CRITERION I: CURRICULAR ASPECTS

# **CURRICULAR ASPECTS**

# 1. 1. Curriculum Design and Development

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

All the academic programmes of the university are designed in tune with the vision of the University. The vision document states that "the university shall have institutional autonomy and academic freedom, be knowledge-based and student centred, be research-driven and learning focussed, be technologically sophisticated but community dependent and be socially responsible, humanely sensitive, publicly accountable and socially committed".

The various programmes offered by the Departments have taken into account the salient aspectsof the vision of the university. The range of programmes from M.Sc./M.Tech/M.Phil Optoelectronics, Computer Science, Futures Studies, ActuarialScience toM.A/M.Phil in Linguistics, Oriental Studies andForeign Languages reflect the vision.

The teaching departments and affiliated colleges have ample academic freedom to design the courses. The university offers programmes ranging from certificate courses to Ph.D. Our courses and programmes are affordable to even the most economically and socially backward sections of the society.

The curriculum for each course is prepared in such a way that it reflects the philosophy, objectives and goals of higher education of the university. The university has systematic, faculty-wise and discipline-wise curricula, keeping in view global, national and regional aspirations and requirements.

Based on the vision of the university and UGC guidelines doctoral training programmes have been streamlined by introducing pre-Ph.D requirements like course work, mandatory participation/presentation of work in seminars, publication of research work, and pre-submission Ph.D presentations.

**1.1.2** Does the University follow a systematic process in the design and development of the curriculum? If yes, give the details of the process.

Yes. The University follows a systematic process in the design and development of the curriculum in the teaching departments and affiliated colleges.

The university has a well-established and comprehensive approach in the design and development of the curriculum under Choice Based Credit and Semester System (CSS) offered in the teaching departments. The university mandates full academic freedom to the Departments to revise the curriculum as and when required.

The curricular content of new programmes offered in the University Departments is designed after extensive and intensive deliberations in the concerned Board of Studies, which is the Department Council itself. The members of the board are the teachers in the respective departments. The Board of Studies has the freedom to take advice and suggestions from expert committees. The Boards also take into account the content of National/International curricular sources, model curriculum prepared by UGC, AICTE and other regulatory bodies. Detailed discussions and workshops are conducted for the formulation of the curriculum. Professionals/experts are invited in such workshops to provide vital inputs. The feedback obtained from the alumni are also given due weightage. The curriculum thus formulated is presented before the Academic Committee of the CSS which has the Vice Chancellor as its chairman and other members nominated are representatives of Deans, Heads of Departments and teachers of the university (Annexure 1: Academic Committee of the CSS). After due recommendations of this body, the curriculum is placed before the Academic Council, which meets at least twice a year. The curriculum of each new programme is circulated among the members well in advance and after detailed discussions, with amendments, if any, is finalized.

If there is any exigency in the implementation of a programme, the Vice Chancellor is empowered to approve the curriculum of the new programme prepared by the concerned Board of Studies subject to reporting to the syndicate.

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

# **Employability:**

When the curriculum of programmes are designed the aspect of employability is given due consideration. Most of the programmes, be it under science or humanities or arts stream, are job-oriented. Inputs from industry, professionals and policy-makers are considered. Moreover students have the option of selecting extra-department electives which helps them to innovate and be creative. Given below are some examples how different Departments have included employability components in their curriculum:

**Communication and Journalism:** Professional internship in media organization is mandatory. Students are employed as Journalists/Corporate Communicators/ Public Relations Officers.

**IMK**: Employed in government, public and private sectors.

**Botany, Physics, Geology, and Zoology**: Syllabus covers the entire syllabi of national level qualifying examinations. More credits are assigned to practical courses.

**Commerce:** Inputs from the members of Chamber of Commerce, FICCI and professional bodies like ICA, ICWA and ICS are given due weightage which has enhanced employability.

**Library Science**: Introduction of paper 'Cataloguing and Metadata'

**Geology:** Field and laboratory techniques needed for employment in exploration and mapping are included in the syllabi. Compulsory individual project work is included.

**Tamil**: Employability is enhanced because of the inclusion of topics like journalism, linguistics, yoga, manuscriptology etc.

**Mathematics**: Computer oriented courses like TEX, LATEX etc are included in the syllabi of M.Sc. and M.Phil. programmes.

**Statistics:** Important softwares are included in the curriculum. R-Software training is provided to the students.

Demography: New PG programme in Actuarial Science.

**Psychology**: Consulting psychology and learning disabilities are included in the M.Phil. programmes.

**Sociology:** Interaction with eminent Sociologists and field visits to old age homes, tribal areas, coastal areas etc. have increased employability.

**Computer Science:** Topics have been included for industry support and UGC-NET Examinations.

**Future Studies:** Postgraduate diploma in Knowledge Management supported by IBM is a newly started course with an eye on employability.

**Computational Biology and Bioinformatics:** "Creativity, Research and Knowledge Management" Course has enhanced employability.

Law: NET examination-oriented content included.

#### **Innovation:**

Many Departments have included recent developments and applications in their respective areas. Some examples are given below:

**IMK:** Guarantee practical/ industrial experience, research aptitude, contemporary knowledge. 45 day organisation study in syllabus included

**Library and Information Science:** Compulsory internship in the libraries and information centres for post graduate students.

**Geology:** New elective courses like Gemology, Meteorology, Oceanography, Water Resources Management are offered.

**Archaeology:** Exploration of places/sites encouraged. For generating new knowledge on local history

**Tamil and Philosophy:** Practical classes in yoga introduced.

**Aquatic Biology:** Opportunities are given for students to interact with reputed aquaculture and hatcheries and research centres.

**History**: New interdisciplinary areas have been introduced in the syllabiintellectual history, gender history, environmental history, archival studies are some of them.

**Physics**: Students are encouraged to take a presentation topic beyond the syllabi so as to cultivate an aptitude for innovation

Innovative courses in affiliated Colleges

- 1. BA Communicative Arabic
- 2. B.Sc Microbiology
- 3. B.Voc.-Degree Progamme on Software Development
- 4. B.Voc.- Tourism & Hotel Management
- 5. B.Com. LL.B
- 6. BA.LL.B
- 7. BBA LL.B
- 8. B.Com Hearing impaired
- 9. Integrated LL.B course (5 years programme)
- 10. University Degree LL.B (3 years)
- 11. BBA (Tourism)
- 12. B.Tech. (Aeronautical Engg.)
- 13. M.Tech.
- 14. M.Arch.

#### **Research:**

The pursuit of higher knowledge is an important component of the vision of the University. Research Methodology is a paper introduced for M.Phil. students. M.Sc./M.A/M.Tech./M.Com students have to compulsorily submit a project report for the successful completion of their Post-graduate programme. The project report carries as much as eight credits.

Each department encourages students to take up research leading to Ph.D Degree by associating/exposing them to the projects in the department and also through the conduct of seminars, conferences and workshops. Five day compulsory Research Methodology workshop is organized under each School for research scholars. The students are also encouraged to visit the best laboratories in the country to expose them to new areas of research. More than 30% of the PG students in many Departments (eg. Geology, Psychology, and Mathematics) opt for Ph.Dprogrammes in the same Department reflecting their confidence in the University. Students are also encouraged to participate in seminars and symposia.

**Politics**: Department publishes a bi-annual research journal "Journal of polity and society' since 2001.

Research methodology is a compulsory course for MBA and M.Com.

**Journalism**: A core course 'Mass communication research' offered for Master of Journalism.

**Computational Biology**: 'Creativity research and knowledge management' a paper designed to raise research awareness and skills.

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

Yes. The university had introduced the series of workshops and deliberations with stake holders, the University boldly introduced CBCSS in undergraduate level in 2010 in the affiliated colleges. The curricula Credit and Semester system in the PG programmes offered in the departments in 1995-96 with courses classified as Core, Internal Electives and Extra-Departmental electives.

After conducting a have been revised taking into account the guidelines of regulatory bodies like UGC, AICTE, NCTE and Bar Council.

The changeover has taken place by making amendments in the relevant Statutes and Regulation in the university rules . This change has made the course and the evaluation procedure student friendly. As a result, the overall performance of the students has significantly improved.

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

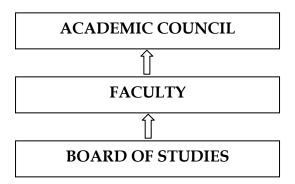
The university does interact with industry, research bodies and civil society in the process of curriculum revision. There are invited members in many Boards of Studies. Depending upon the programme the experts may be from Industry/Research body/Civil Society

Moreover, workshops are conducted region-wise by different Boards of studies during the revision process, to which experts are invited. The interaction with them helps in filling the gap between the requirement of research institutions/industries/job market and the expertise of the students.

In addition, the interactions with alumni provide opportunities to get the right feedback regarding the components to be included in the curriculum for making the students more employable/research oriented. Such interactions also help the departments to formulate collaborative works/research projects/placements. Faculty from the University departments are invited to ICHR, ICSSR, KCHR, CDS (New Delhi), JNU, MIDS, CDS (Thiruvananthapuram) and IIAS (Shimla).

**1.1.6** Give details of how the university facilitates the introduction of new programmes of studies in affiliated colleges:

The colleges have the freedom to suggest new programmes. The teachers along with other experts prepare a curriculum for the programme and submit the same to the concerned or related Board of Studies (Annexure 2: List of Boards of studies). In certain cases the Board would recommend interaction with experts and stake-holders to prepare the curriculum. The Board of Studies, after due deliberations, recommends the curriculum to the concerned Faculty (Annexure 3: List of Faculties) which after discussions recommends the same to be placed before the Academic Council. The Academic Council takes the final decision regarding recommendation of a programme and curriculum.



In addition, the Board of Studies can suggest starting of new programmes in colleges.

The well laid procedure and time frame followed by the university with regard to the introduction of new programmes of studies in affiliated colleges is given below:

- 01. In the specific format the college managements have to apply for new programmes to be introduced, between 1<sup>st</sup>July and 31<sup>st</sup> August, with the requisite fee.
- 02. The University charges a processing fee for each new programme applied by the college.
- 03. The syndicate verifies the applications thus received, for different courses.
- 04. A syndicate member/or more members nominated by the syndicate makes local enquiries and reports to the syndicate on the request.
- 05. If the syndicate makes a positive recommendation, the University issues a Letter of Consent.
- 06. The list of programmes for which consent is given is forwarded to the Govt. of Kerala for providing No Objection Certificate (NOC).
- 07. The applications with the NOC from the Government of Kerala are resubmitted to the University for further consideration.
- 08. The syndicate of the University appoints an Inspection Committee with a subject expert for each new programme to be started.
- 09. The Inspection Committee, after visiting the campus and interacting with the stakeholders informs their recommendations to the University.
- 10. The report of the committee in the specific format is placed before the syndicate for sanction/approval of the programme, as the case may be.
- 11. In 2013-14 each Govt. and aided college was sanctioned one UG/one PG programme.

**1.1.7** Does the University encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances.

Many affiliated colleges offer add on courses with funding from UGC. These are Certificate/Diploma/Advance Diploma Courses which are certified by the University. The courses offered provide additional skills to students. The University always encourages the colleges to offer such programmes.

# 1.2. Academic Flexibility

# **1.2.1** Furnish the inventory for the following:

# > Programmes taught on campus

The wide range of academic programmes in the teaching departments and affiliated colleges indicate the options available with flexibility to choose and cross learning possible

# **PG Programmes offered under CSS**

Sl. No.	Name of Course
1	Aquatic Biology & Fisheries (M.Sc.)
2	Arabic (MA)
3	Archaeology (MA)
4	Bio-Chemistry (M.Sc.)
5	Biotechnology (M.Sc.)
6	Botany (M.Sc.)
7	Chemistry (M.Sc.)
8	Commerce (M.Com.)
9	Communication & Journalism (MCJ)
10	Computer Science (M.Sc.)
11	Demography (M.Sc.)
12	Economics (MA)
13	Environmental Sciences (M.Sc.)
14	Geology (M.Sc.)
15	German (MA)
16	Hindi (MA)
17	History (MA)
18	Institute of English (MA)
19	Islamic Studies (MA)

20	Library Science (M.L.I.Sc.)	
21	Linguistics (MA)	
22	Malayalam (MA)	
23	Mathematics (M.Sc.)	_
24	Music (MA)	_
25	Philosophy (MA)	
26	Physics (M.Sc.)	
27	Politics (MA)	
28	Psychology (MA)	
29	Sanskrit (MA)	
30	Sociology (MA)	_
31	Statistics (M.Sc.)	_
32	Tamil (MA)	
33	Zoology (M.Sc.)	
34	Education (M.Ed.)	_
35	Russian (MA)	
36	Law (LLM)	
37	Computational Biology (M.Sc.)	
38	M.Phil Bioinformatics	
39	M.PhilCADD	
40	M.Phil. Computational Linguistics	
41	M. Tech. Optoelectronics	
42	M. Tech. Computer Science	
43	M. Tech. Technology Management	
44	MBA	
45	MSW	
46	M.Sc. and M.PhilActurial Science	
47	M.Sc. Integrated Biology	
	Total 47	

PG Diploma Courses offered in the University

PG Diploma	Centre/Dept
P G Diploma in English Communication	Institute of English
Diploma in German	German
Integrated Diploma in Russian	Russian
Diploma in Functional Malayalam	Linguistics
P G Diploma in Knowledge Management	Futures Studies
P G Diploma in Communicative Engineering	Optoelectronics
P G Diploma in Geo Information Science and Technology	IUCGSIST
Diploma in Translational Studies	Centre for Translational Studies
Diploma in Health and Sanitation, Diploma Physiotherapy, P G Diploma in Counseling, PG Diploma in Responsible Tourism	CACEE
PG Diploma in Human Rights	Dept. of Law

Apart from this, certificate courses are offered in the Departments of English, German and in the Centres as listed here

Centre	Course
Centre for Cultural Studies	Film Appreciation
Centre for English Language Teaching	Communication Skills Writing Skills
Centre for Gandhian Studies	Gandhian Thought
Centre for Adult Continuing Education and Extension	Classical Music, Hindustani Music, Group Song, IT, Music Appreciation, Functional English, Public Speaking, Airline Ticketing and Travel Management, Computerized Accounting, C+, Computer Hardware Maintenance, Certificate in Web Page Designing,, Radio and Video Jockey, Soft Skills, Ayurveda Masseur and Pancha Karma
German	German Language

# M. Phil Programmes

The University offers forty M. Phil programmes through its teaching and research centres. These include M Phil in Nanoscience and Nanotechnology, Nano Biology, Theatre Arts and Film Aesthetics, Bio informatics, and computer aided Drug Design.

**School of Distance Education (SDE)** offers undergraduate programmes like BA, B.Sc., B.Com. and BCA, Master Programmes like M.A., M.Sc., M.Com., MHRM, MCA, MBA, MHA, M.L.I.Sc. and MHSC in the various functional specializations. They also offer P G Diploma and Certificate courses

The University Departments are equipped with well-stacked libraries, class rooms with ICT facility, computer laboratory, Wi-fi enabled rooms and state of the art laboratories. The university departments offer a number of programmes that indicate the flexibility in meaningful structuring of programmes that address emerging social challenges and needs. The table provided highlights this:

Sl.No.	Department	Title of Course	Year	Duration	
1	Department of Computational Biology and Bioinformatics	M. Phil. Computer Aide Drug Design (CADD)	2012	1 year (2 semesters)	
	Remarks This programme aims at understanding biological data and models at molecular level from both informational and biological perspective and imparts biological, computational and practical skills in rational design of drug molecules.				
2	Department of Journalism and Mass Communication	Media and Society	2014	Short Term (3 months)	
	Remarks Designed for foreign students under Semester India Programme				
3	Institute of English	(1) Spoken English Skill Development* (2) Communication Skill in English*	1 2011	Certificate  Certificate	
	Remarks *For professionals **For students, fil	(3) Film** Appreciation 2012 Certificate and non-professionals			
4	Department of Futures Studies	Post-Graduate Diploma Knowledge Manageme (PGDKM)	in 2011- ent 12	1 Year	
	Remarks Covers various aspects of Knowledge Management discipline, provide training in the knowledge domain.				
5	Department of Psychology	M.Phil. in Learning Disability under the UGC innovation Programme	2008-2009	1 Year	

Sociology  Work (MSW) (2) Post Graduate Certificate Course on "Techniques and Methods of Family and Marriage Counselling (PGCC-TMFMC) (3) Post Graduate Certificate Course on Geriatric Care and Management (PGCC- GCM)  7 History Electives like Brahmi Script and Granthi Script studies  8 Politics Prof. Eric Jepse, Full Bright Fellow, University of South Dacota, USA, had offered a semester course titled 'Comparative political economy of development' for MA students  9 Demography (1) MSc Actuarial Science (2) MPhil Actuarial Science (2) MPhil Actuarial Science 10 Arabic Certificate course in translation To be started MBA (Tourism) MPhil (Management) MPhil (Management) 11 IMK MBA (Tourism) MPhil (Management) MPhil (Management) 12 Commerce M.Com. (Global Business Operations) LLM (Public Law & Intellectual Property Right & Cyber Law)  Semesters) 6 Months  6 Mont	6	Department of	(1)Master of Social	2009	2 Years (4
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		Certificate Course in	2013	3months
		Human Rights & Duty		
		Education		
		PG Diploma in Human	2014	9months
		Rights		
14	Environmental	PG Diploma	2013	
	Science	Environmental		
		Management		
15	Biotechnology	PG Diploma in	Permission	
		Bioprocess technology	granted	
16	Chemistry	M.Phil. (Material	2014 (To be	2 semester
		Chemistry)	started)	
17	Optoelectronics	Advanced PG Diploma	2013-2014	2semester
		in Communication		
		Engineering jointly		
		with BSNL Trivandrum		
		MPhil (Nano	2010	2semester
		photonics)		

<sup>&</sup>gt; Overseas programmes offered on campus: No Overseas Programmes

Programmes available for colleges to choose from: No separate programmes for colleges. However, thestudents from affiliated colleges are invited to attend seminars/workshops organized in the campus.

# **Affiliated Colleges**

The 244 colleges offer a wide range of courses in Engineering, Medicine Fine Arts, Music, Physical Education, Architecture, Management, Biotechnology, Microbiology, Language and Humanities, Social Sciences, Natural Sciences, Physical Sciences, Chemical Sciences, Technology. In addition to this they offer PG programmes and some Colleges offer M.Phil. as well. Several colleges affiliated to the University are approved research centres.

UG Programmes	BA with specialization in13 streams, B.Sc. with specialization in12 streams, B Com with 3 optionals, BBA, BCA, B Arch	
	BA in Indian and Foreign Languages (Malayalam, Tamil, Hindi, Sanskrit, English, German, French, Russian)	
Professional UG Courses	B.Tech. Engineering, B Sc engineering, MBBS, B.Ed., B.L.I.Sc, B.P.Ed, LLB, Hotel Management, Biochemistry, Microbiology, Biotechnology,	
PG Programmes	MA with specialization in 12 streams, M.Sc. with specialization in 9 streams, M Com with 4 options, MBA, MCA, M.Arch. M.A. Foreign Languages, M.A. Indian Languages	

Professional PG Courses	Engineering, M.Tech., M.Sc., Medicine (Allopathic, Ayurveda, Homeopathy, Siddha), Fine Arts, Music, Physical Education, Architecture, Management, Biotechnology, Microbiology, LLM
M.Phil	Arabic, Botany, Chemistry, Economics, English, History, Hindi, Malayalam, Philosophy, Physics, Sanskrit, Mathematics, Zoology, Islamic History
PhD	36 colleges are Research Centres

Programmes in the UG Level were broughtunder CBCSS with courses classified as Core courses, and intra departmental, inter departmental electives, which is indicative of its range and flexibility.

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

# a) Core/Elective options

With the Choice Based Credit System is well in place in the university, all departments strictly comply with the Regulations (Annexure 4: CSS Regulations) regarding the Core and Elective courses offered in each programme. The students opt for electives from their own department and from other departments.

Affiliated Colleges have courses in three groups: Core, Supplementary, and inter disciplinary and intra departmental electives.

#### b) Enrichment Courses

To equip the students to have that particular edge to compete, departments have introduced additional courses and programmes. They include

Sl No	Name of Department	Course/Programme/Workshop	Remarks
1	Department of Communication and Journalism	Workshops on 'Documentary Production', 'Television Production' and 'Learning Soft Skills'	To enrich and equip the students to become familiar with the working of media.
2	Department of Computational Biology and Bioinformatics	(1)Training under DBT-BIF, AiCADD. (2)10-day 'Learning to Learn' induction programme Training programmes and workshops were conducted under the auspices of DBT-BIF (3) 3-day training to all students and researchers on Discovery Studio by Accelrys in the area of Ayur-informatics and Computer Aided Drug Design (Ai-CADD)	Aimed to inculcate best learning techniques and practices. Prepares the newcomers to transform from a student to scholar.

3	Department of	Analysis of philosophical	Affirms values in
	Philosophy	Concepts, Management Ethics,	civil society.
	1 7	Philosophical Analysis of	,
		Psychology, Philosophy of	
		Hermeneutics, Postmodernism –	
		A Philosophical Study, Medical	
		and Health Care Ethics,	
		Philosophical Foundations of	
		Logic, Philosophy of Law and	
		Human Rights	
4	Institute of	Certificate Courses in Writing	Helps to improve
	English	Skills, Soft Skills and Speaking	these vital areas in
		Skills	communication
5	Department of	Enrichment workshops are	Helps transform the
	Aquatic	organized in association with	student to scholar
	Biology	other departments in fields such	
		as statistical packages and	
		research methodology	
6	Department of	Offers induction classes to equip	Helps student after
	Futures Studies	the students with soft skills like	the course to meet
		personality development and	the requirements and
		effective communication and	demands of job
		good presentation skills	market.
7	Department of	Advanced short term courses on	Equips students to
	Malayalam	film appreciation, translation	compete.
		studies and comparative	
		literature in the job market.	

c) Courses offered in modular form

Yes. The course content is divided into modules/units/sections.

d) Credit accumulation and transfer facility

Regulations in place for Credit Transfer into and out of the University's Academic Programmes vide UO No, Ac D/1/80160/2014 dt 27-1-14 and Regulations for Foreign Students Relating to Post Graduate and Post PG Programmes and Courses to the Departments of the University of Kerala vide UO No, Ac D/1/80161/2014 dt 27-1-14.

A student who has successfully completed his M.Phil. programme in any University can register for his Ph.D programme and need not appear for the Ph.D entrance examination conducted by the University.

e) Lateral and vertical mobility within and across programmes, courses and disciplines:

Students have the freedom of lateral and vertical mobility, with regard to electives, so as to complete a programme. B.Voc. has flexibility for lateral entry.

**1.2.3** Does the university have an explicit policy and strategy for attracting International Students?

A fully functional Centre for International Academics (CIA) is established in the University. In the project mode, the university had students from the USA who did courses in various departments as part of the Semester India Programme. Apart from this, the programmes and courses attract students from Iran, Afghanistan, Rwanda, Vietnam, Bangladesh, Sri Lanka and other countries to pursue post graduate and doctoral programmes in the university.

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

Yes.

- 1. The department of Journalism and Mass Communication has designed a course in Media Studies for the Semester in India Programme students and it has been well received by the students.
- 2. The Institute of English offers three courses which include 'Translation and its context', 'Introduction to Diaspora Studies' and 'Imaging India in Cinema'.
- 3. The Department of Bioinformatics had planned and proceeded to organize an International M.Sc. Computational Biology programme for Chinese students. The process was taken forward to the level of visiting Henan University and agreeing on a Memorandum of Understanding to be signed. The University of Kerala later signed this MoU. However, the permission of the Govt. of India to go ahead with the MoU has not been received and it is understood that it is unlikely to be received. Hence, this process was not successful.
- 4. The international students choose courses offered by the Department of Aquatic Biology through Semester-India programme initiated by the University.
- 5. The Department of Futures Studies provides opportunities for international students to pursuing research under the guidance of an academic supervisor from the Department. Presently there are three international students. One student enrolled for pursuing M.Phil. course and two students for PhD programme.
- 6. Students admitted to the Centre for International Academics (CIA) study two courses offered by the Department of Psychology. They study Holigrative Social Psychology and Therapeutic Intervention Strategies.
- 7. Four courses are offered by Department of Politics: India's Foreign Policy, Politics of South Asia, Environmental Development and Policy, Public Policy Analysis

- 8. Two courses are offered by Department of Demography: Kerala's Demography and India's Population Dynamics.
- 9. The Department of Malayalam offers Fundamental Malayalam and Spoken Malayalam for foreign students and non-Keralites.
- 10. The Department of Commerce offers supportive courses in 'Research methodology and SPSS' specifically designed for foreign students.
- 11. The Department of Zoology offers a course 'Bio-diversity and Conservation Biology' for the students admitted to the International Academics Programme.
- 12. There is an International Centre for Kerala Studies (ICKS) promoting Kerala Studies through its various programmes and initiatives.
- **1.2.5** Does the university facilitate dual degree and twinning programmes? If yes, give details.

No.

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

Self-Financing courses are not very popular in the University; however, we have introduced some programmes in the departments as well as some colleges on this line.

Based on the recommendations of the peer team report on NAAC Accreditation certain self-financing courses were introduced.

- (English) Offers 3 Courses. They are (1) Certificate Course in Spoken English Skill Development Programme 3 months (2) Certificate Course in Communication Skills in English 3 months (3) Certificate Course in Film Appreciation 3 months
- 2. Sociology. (1) Post Graduate Certificate Course on "Techniques and Methods of Family and Marriage Counselling (PGCC-TMFMC) 6 months, (2) Post Graduate Certificate Course on Geriatric Care and Management (PGCC-GCM) (6 months).

Admission	Fee structure	Teacher qualification		
Any degree	Rs 3,500/-	PG in concerned discipline and UGC NET		

In addition, the University Institute of Technologies, University Institute of Managements and B.Ed. Centres offer self-financing programmes.

Department	Course	Duration	Fees
Political	Certificate Programme in Research	6 months	
Science	Methodology in Social Science for		
	Science Research Centre		
IMK	MBA (General) Full time	2 year	Rs. 12,500/-
	MBA (Tourism) Full time	2year	Rs. 25,000/-
	MBA (General) Part time	2year	Rs. 25,000/-
Sociology	Post-graduate Certificate course on techniques and methods of family	6months	
	and marriage counseling		
	PG Certificate course on 'Geriatric	6months	
	Care and Management'		

Fees charged and salary paid to teachers is as per University rules,

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

Such a learning mode has not been worked out,

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

Yes. All the Postgraduate programmes in the university departments follow this system. The School of Distance Education, however, follows the Annual Scheme. Regulations were passed for the Under Graduate programmes under the CBCS System in Affiliated Colleges vide UO No. Ac. A. II/1/UGSem/2009 dt.6-7-2009 and the regulations were revised in 2013. At present, all affiliated colleges follow this system in the university in the undergraduate level.

Affiliated colleges have CBCSS for UGprogrammes and semester system for their PG programmes.

**1.2.9** What percentage of programmes offered by the university follow

Annual system NIL
 Semester system 100%
 Trimester system NIL

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

All departments have inter-departmental electives and thanks to this initiative, there is exchange of ideas, which benefit the students in their project

work. It has helped students to explore newer areas of cross-disciplinary research. Some of the examples are listed below:

- 1. The Education Department has taken initiatives to develop a course/Elective on Cognitive Neuroscience in collaboration with experts in the medical field.
- 2. M.Phil. CADD and Bioinformatics 1 year (2 semesters)of the Department of Bioinformatics is also such a programme. Both M.Phil. CADD and Bioinformatics promote inter-disciplinarily through inter-disciplinary curriculum as it admits students from various backgrounds like Computer Science, Biotechnology, Engineering, Life Sciences, Agriculture and Medicine.
- 3. As part of the inter-disciplinary programme the Department of Philosophy has conducted M.Phil. degree course.
- 4. The students of the Institute of English take elective Courses from the Departments of Philosophy, Sociology, Political Science and Library Science for one Semester. The Department also offers English for Communication Course for students in the departments of Library Science, Commerce, Management and Philosophy for one Semester An interdepartmental elective "Visual Media and Culture" was offered in 2012 for students in the departments of Library Science and Philosophy.
- 5. Similarly, the Department of Tamil offers "Tamil Language and Literature" which is an Elective Course for other Department students. Each year 60 to 70 students from Sanskrit, Malayalam, Linguistics, Philosophy, Archaeology, and Journalism Departments study this course. They learn the Tamil language very well and these students recommend the course to their juniors.
- 6. The M.Sc. (two year) and MPhil (one year) courses in Aquatic Biology and Fisheries are purely multidisciplinary in nature. The outcome is reflected in skills, job opportunities, societal applications and in performance of the students which has greatly improved their job prospects.
- 7. M.Sc. Biotechnology course has inter-disciplinary programmes such as Nano-biotechnology and Computational biology.
- 8. All the programmes of the Department of Futures Studies have this orientation. 95% of the students of the M.Tech. (Technology Management) successfully complete the course; 2% get distinction and 75% get first class. Most of the students gets placed in Industry/ Academic Institutions/ Govt. Organisations or go for higher studies. Many of the students after their M.Phil. go for further research and teaching. After their Post Graduate Diploma in Knowledge Management (PGDKM) students get placed in the Industrial Sector.

- 9. The Department of Library and Information Science offers ten electives meant for students of other Departments in an effort to encourage interdisciplinary programmes. Examples of such courses are: Technical Writing, Electronic Information Sources in Science and Technology, Electronic Information Sources in Social Sciences, Electronic Publishing, Digital Libraries, Information Literacy, Knowledge Management, Intellectual Property Rights, Web technologies and Competency Development. These courses have been offered at different times for different departments and student feedback has always been encouraging.
- 10. The M.Phil. course in Learning Disabilities of the Department of Psychology gets the service of speech pathologists, linguists, special educators, neurologists and clinical psychologists, so that students develop a holistic appreciation of the discipline and view curriculum, instruction, and assessment as integrated components of the educational process. Through such an approach students gain the potential to make more complex epistemological connections and detect more complex patterns of human activity
- 11. The Department of Geology offers the extra departmental elective Geo-informatics to the students of the departments of Computer Science, Environmental Science and Zoology.
- 12. The Department of Law offers a PG Diploma in Human Rights
- 13. The Department of Library Science offers Extra Departmental courses like technical writing, digital library, intellectual property right, web technologies etc.
- 14. The Department of Environmental Sciences offers Disaster management (ENS 51A), Environmental health perspectives (ENS 52A) and Waste Management Techniques (ENS 53A)
- 15. The Department of Biotechnology offers courses on Nanobiotechnology and Computational Biology
- 16. The Department of Mathematics offers Complex Analysis for M.Sc. (Statistics) students and Applied Mathematics for M.Tech. (Optoelectronics) students.
- 17. The Department of Statistics offers Elements of Probability Theory (STA52A- 3 credits) and Elementary Statistical Methods (STA 53A-2 credits)
- 18. The Department of Sociology offers "Society and Environment" and Social Legislation.
- 19. The Department of Futures Studies offers M.Tech. (Technology Management- 2 years) and M.Phil. (Future Studies- 1 year)

- 20. The Department of Computational Biology offers M.Phil. (Computer aided drug design- 2 semesters).
- 21. The Department of Commerce offers "Accounting for Managers" to students of M.Sc. Demography.
- 22. The Department of Computer Science offers "Internet Techniques" for M.Sc. Geology, Demography and Chemistry students.
- 23. In affiliated colleges, CBCSS offers inter departmental electives for the UG programmes.

#### 1.3. Curriculum Enrichment

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

On an average, the post graduate programmes are revised once in two years to cater to the various parameters that demand such revisions. The University Departments have the freedom to revise the content as and when required. Such revisions are undertaken for many courses. There would be workshops, brainstorming sessions, contributions of outside experts from premier institutions, and consultation with subject experts. The departments also circulate the draft for critical comments and fine-tuning. Some departments have informal discussions with people from the Industry and their requirements and suggestions are included in the syllabus.

The curriculum of affiliated colleges are revised once in three years by the Board of Studies of the University

The alumni of the departments offer valuable feedback which is given due weightage during the revision of curriculum.

As part of the revision process many of the departments have conducted workshops. Some of them are listed below

History: Workshop on PG and M.Phil. syllabus revision. 6-7 Feb 2014-35 participants and 8 external resource persons. Erudite programme implemented in the department with the following resource persons- Dr. Robin Bannerman Jeffrey (University of Singapore), Dr. DileepMenon (Witwatersrand University, South Africa) and Dr. R Mahalekshmi (JNU)–14-17 Feb 2013

Politics: Curriculum revision workshop 5-6 March 2010. Participants: Prof. G. Gopakumar, Prof. RLMPatil, Prof. NinanKoshy, Prof. B Vivekanandan (JNU) and 60 students.

Law: National seminar on legal education, Jan 2009, 60 law teachers, 20 lawyers, 40 students, 10 social activists, and 20 research scholars

Philosophy: 1 day group discussion on 'M.A. syllabus revision', Participants: 10 teachers, 9 July 2013; 1 day group discussion on 'MPhil syllabus revision', Participants: 15 professors, 2 December 2013

Sociology: M.A. syllabus revision workshop, 31 Jan-2 Feb 2011, 30 participants; MSW syllabus revision workshop, Feb 2012, 10 participants.

Future Studies: M.Tech. syllabus revision, 16-18 April 2010, 8 participants.

English: Based on the input from students and faculty the department has seen to it that the course and syllabus is revised. The M.Phil. syllabus was revised twice during this period. The M.A. syllabus was also revised twice. Eight workshops for M.A. and five workshops for M.Phil. were held to make all these revisions. Syllabus revisionwas conducted with the Head of the department chairing the workshops.

IMK: Two day workshop on 'Revision of curriculum and syllabus of MBA (General), 15-16 April 2012, Participants: 20 (academic) and 10 (industry). Two day workshop on 'Revision of curriculum and syllabus of MBA (Tourism).

Commerce: The Commerce Department was host and directly involved in the organization of a three day curriculum workshop for the PG Board of Studies in Commerce during March 2014. Professional and representatives from the Industry gave their inputs in the workshop. The PG Board in Management Studies organised a 3 day workshop in May 2014 on restructuring the MBA course of Affiliated colleges. The Head of the Department was involved in its organization in his capacity as Chairman of the PG Board. The curriculum of the Department was revised in February, 2014 by the Department Council.

- **1.3.2** During the last four years, how many new programmes at UG and PG levels were introduced? Give details.
  - ➤ Inter-disciplinary
  - 1. The Department of Journalism and Mass Communication offers interdepartmental elective course in Film Studies.
  - 2. M.Phil. Computer Aided Drug Design (CADD) is a new programme launched by the Department of Computational Biology and Bioinformatics in 2012. The duration of the programme is 1 year (2 semesters). This programme aims at understanding biological data and models at molecular level from both informational and biological perspective and imparts biological, computational and practical skills in rational design of drug molecules.
  - 3. The Department of Philosophy organized an Inter-disciplinary seminar in 2010 in collaboration with the Department of Linguistics. It also organised "Philosophy Teachers Meet" in emerging areas on Teaching Methodology in Philosophy for Philosophy Teachers from affiliated colleges in Kerala state. A Debate Club has also been formed to discuss philosophical dimensions of emerging areas in society.
  - 4. Department of Botany offers PG Diploma in Biodiversity and Conservation' (start from 2014)

- 5. Department of Zoology offers MSc Integrated Biology.
- 6. The semester India programme offered by the University for foreign students has attracted large number of students from different countries.
- Programmes in Emerging Areas
- 1. The Department of Chemistry has been sanctioned an M.Phil. Course in Material Chemistry which will commence in 2014.
- 2. The Department of Aquatic Biology has proposed a new M.Phil. Programme in Marine Science and Technology.
- 3. The Department of Biotechnology has two programmes. They are the Inter University Centre for Genomics and Gene Technology and Pharmaceutical Biotechnology
- 4. The Department of Future Studies has introduced one inter-disciplinary programme in the emerging area of Knowledge Management. Sensing the scope for Knowledge Management, the Department applied to start a Post-Graduate Diploma in Knowledge Management course to the University Grants Commission (UGC) under the innovative programme in 2010. The UGC sanctioned this programme in 2011-12 and the first batch of PGDKM commenced during 2011-12.
- 5. In 2008-2009, the Department of Psychology started an M.Phil. course in Learning Disabilities with the financial assistance of the UGC under the scheme of innovative programmes. This course was started to produce trained personnel who can identify and manage learning disability and related problems in schoolchildren. Experts from various areas like special education, neurology, speech therapy and clinical psychology provide training for the students.
- 6. The Department of Linguistics offers M.Phil. in Computational Linguistics
- 7. The Department of Sociology offers MSW course.
- 8. The Department of Commerce has proposed M.Com. in Global Business Operations
- 9. The Department of Law offers the following courses: LLM (Public Law & Intellectual Property Rights); LLM (Human Rights); Certificate Course in Human Rights & Duty Education, PG Diploma in Human Right
- 10. New programmes in Affiliated Colleges
  - 1. B.A. Honours Degree Course in English Language & Literature
  - 2. M.A. Malayalam with Media Studies
  - 3. M.Sc. Medicinal Chemistry
  - 4. M.Sc. Microbiology

- 5. M.Sc. Counselling Psychology
- 6. PG Diploma in Hospital Hygiene Management
- 7. M.Phil. Material Chemistry
- 8. PG Diploma in Biodiversity Conservation
- 9. M.Phil. Course in Marine Science and Technology
- 10. M.Sc. Home Science (Nutrition & Dietetics)
- 11. B.Voc.
- 12. B.Com. Speech and Hearing Disabled
- **1.3.3** What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

The University departments have the autonomy to modify the syllabus every semester, if required. There are some factors considered for the revision of the programmes. They include (1) The feedback from the industry/R&D Institutions (2) The level/strength of teaching and learning process in UG programmes (3) Job/Research/UGC-NET requirements (4) Recent advances in the discipline.

The strategy used is to collect feedback from students/alumni and the faculty evolve their critical assessment of syllabus continuously. Discussion with teachers in other universities/institutions and colleges on an informal basis has immensely helped in designing/modifying the courses. Exposure to the course and syllabus of other universities also serve as useful signposts. All of these are used in department meetings to reflect on the modification of syllabus. Some departments get feedback from the industry that supports their course in terms of professional internship for students.

As per the guidelines in Credit and Semester Systems, the departments undertake syllabus revision exercise once every three years for the Post Graduate and M.Phil. programmes. The Board of Studies which assesses the academic requirements of various programmes offered by the University consists of experts in various fields from university departments, recognized institutions, other Universities and national institutions. The curriculum is framed after extensive deliberations in the Workshops organized specifically for this purpose. The syllabi framed by the various Boards of Studies are scrutinized and approved by higher academic bodies like the Faculty and Academic Council and then implemented. On an average about 70% of the courses underwent substantial revision.

About 100% of the programmes have been thoroughly revised during the last three years. In affiliated colleges massive restructuring of UG and PG programmes were undertaken in the last couple of years.

In the curriculum workshops for programmes in affiliated colleges several faculty members of the University Departments offer their services. The faculty of the departments are members of Boards of Study which prepare the curriculum for programmes in affiliated colleges. The Chairman of PG Board of Studies is the Head of the concerned University Department.

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

The Department of History offers elective courses in 'Manuscript Studies' and 'Archaeology' have enhanced value of degree programmes.

The Department of Malayalam offers 'Literary Historiography', 'World Literature' and 'Film Song Study'.

The Department of Law offers the UGC sponsored course" Human Rights and Duty Education"

The Department of Lexicon offers M.Phil. programme in Lexicography

Courses offered by the Department of Physics like Communication Electronics are designed to make the M.Sc. Physics students at par with Electronics engineering students.

The students have the opportunity of pursuing such programmes offered by the Centre for Adult and Continuing Education (CACEE) of the university.

There are more such value added courses offered by different centres of the University. Students of specific faculties have the freedom to choose these courses.

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

The University has launched two major initiatives: 1. Establishment of a Finishing School. 2. Establishment of Students Skill Acquisition Club (SSAC) in all its Teaching Departments.

#### **Training Programmes**

The School would identify skill deficient students in the final semester of their learning programme under different broad disciplines and impart:

- 1 Soft skill training programme in batches of 50, It is proposed to undertake separate programmes in the disciplines of Social Sciences, Humanities, Languages and Sciences. Thus four such training sessions are proposed.
- 2 Practical need based training at the learners' centre in collaboration with the Concerned Department/institution
- 3 Educative workshops for teachers on issues relating to employability, Additional Skill acquisition etc

So far the School has imparted soft skill training to four batches of students through specialized trainers.

The School is also monitoring the functioning of **Students Skill Acquisition Clubs** (SSACs) formed in all its teaching Departments.

#### Award

The best SSAC would be presented with a Cash Award based on annual performance each year.

# 1.4. Feedback System

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

At the end of every semester the feedback from the students of all the programmes in the departments and centres of the University is collected. A common evaluation form, designed in such a way as to assess all the aspects of courses and teachers, is used for the evaluation (Annexure 5: Feedback form). The feedback from the students in each department/centre is collected by the IQAC team member through the head of the department/centre. Before the students start filling their evaluation forms, the IQAC members explain the importance and confidentiality of the feedback, to the students. The doubts regarding the questions in the evaluation form are also explained.

The evaluation sheets thus received are processed in the IQAC office of the University and reports generated for each department and centre. Separate reports are generated for programmes, courses/teacher by consolidating and classifying all the parameters in the evaluation form. The report consists of the average marks obtained against each parameter of the evaluation form. The overall performance of course/teacher will also be noted in the report. The reports are later handed over to the HOD who will discuss the contents with the respective teachers and explore means by which there can be improvement, if any, for a course/teacher implied in the report.

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

All the departments and centres in the University have academic linkage with the faculties and scientists from national and international institutions. Some of the departments could bring Nobel Prize winners to the campus, and the students and teachers got opportunities to interact with them. The evaluation of M.Phil and Ph.D theses are carried out by faculty from national level institutions; the feedback obtained are always used to strengthen the course/programme. The knowledge and experience acquired by each faculty from the visits and interactions with other faculties and experts of national and internal institutions definitely influence and catalyze the activities leading to the modification of the academic curriculum of the University. The curriculum prepared by the Departments is also vetted, in many cases, by professional bodies.

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

We have enough number of faculties from affiliated institutions in almost all academic bodies of the University such as academic council, faculties and boards. The annual and special meetings of these bodies are always taking care to discuss the feedback from the students/faculties of the affiliated institutions while framing curriculum and other academic activities/parameters. New courses, syllabus upgradations, amendments to the existing scheme and syllabi are always discussed and moulded in the concerned boards in which large representation of faculties from affiliated institutions are ensured.

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

The University's Internal Quality Assessment Cell (IQAC) ensures quality in the services provided to the stakeholders.

While formulating new scheme and syllabus of the existing programmes, the following parameters are given due weightage:

- Number of students who receive placement after the completion of the programme.
- Number of students who are successful in the national/state level competitive examinations such as NET, UGC-CSIR, ISI, SET etc.
- Number of students who opt for higher studies after the M.Sc./M.Phil. programme.
- The feedback from the institutions which are actively collaborating with the programmes.
- The feedback from the alumni who are employed in reputed organisations of same domain.
- New trends and applications of the domain.
- The number of applicants for the programme.

The University offers enrichment training programme for faculty members in the form of workshops. Teachers are encouraged to participate in training programmes and special encouragement is given for the following:

**Best Publications** 

Best Thesis Guided

In addition to the above the University provides best teaching department award based on Curricular Aspects, Research, Consultancy, Social and Industrial linkage.

#### LIST OF ANNEXURES

- 1. Academic committee of CSS
- 2. List of Boards of Studies
- 3. List of Faculties
- 4. CSS Regulations
- 5. Feedback form given to students

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# CRITERION II TEACHING-LEARNING AND EVALUATION

#### TEACHING-LEARNING AND EVALUATION

#### 2.1.0 Student Enrolment and Profile

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

The admission to the teaching departments is on the basis of marks secured both in the entrance examination and in the qualifying examination. In the month of March, notification for PG admissions is issued through the university website. In addition advertisements are inserted in leading national and regional dailies. The entrance examination is held in the month of May. For affiliating colleges, there is acentralized single window system for selecting the candidates throughan online system. On the basis of marks secured in the qualifying examinationscandidates are considered and allotment is made to the colleges on the basis of their preference. There will also be a press release on the admissions. Transparency is ensured in all stages of admission.

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

For the Departments, admissions are on the basis of merit and entrance test. The rank list is prepared by adding the marks secured for qualifying examinations and common admission test adopting 1:1 formulae. For admission to MBA course, marks secured for group discussion is also considered for ranking. The Department of Music conducts aptitude test for the selection of students. The admission is as per the Government norms.

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

For affiliated colleges there is centralized single widow system for selecting the candidates online since 2012,on the basis of marks secured in the qualifying examinations and allotment is made to colleges on the basis of their preference given by them. Government norms for the reservation of seats in the government colleges, private aided colleges, private self – financing colleges and colleges for different professional courses are followed.

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

Yes. Every year statistics regarding the admission is collected from the University Departments and the following aspects examined for formulating the admission policy for the next year.

- 1. Demand for various courses
- 2. Level of representation for socially and educationally backward sections including SC/ST
- 3. Level of representation for female students
- 4. Efficiency of the existing admission process

Through this review, new admission process ensuring transparency has been introduced .New norms for reservation for disadvantaged groups were formulated in 2007.

- **2.1.5** What are the strategies adopted to increase/ improve access for students belonging to the following categories:
  - \* SC/ST
  - \* OBC
  - \* Women
  - \* Persons with varied disabilities
  - \* Economically weaker sections
  - \* Outstanding achievers insports and other extracurricular activities

In the admission process due consideration is given to the need of the special categories and equal access to higher education is ensured to all sections of the society

Considering the constitutional mandate of social justice, the policy of the State Government reservation norms are followed.

Category	Percentage of seats
Scheduled Castes	15%
Scheduled Tribes	5%
Backward Communities	20%
Physically Challenged	3%
Below Poverty Line students not having the benefit of other reservation	7%

The seats reserved for Backward communities are distributed as follows

Community	Percentage
Ezhava	8%
Muslim	7%
Hindu Backward	3%
SIUC/Latin Catholic	1%
Christian Backward	1%

If there are no sufficient number of candidates in the SC/ST category, press notification will be issued inviting applications against vacant seats and this process will continue for three times.

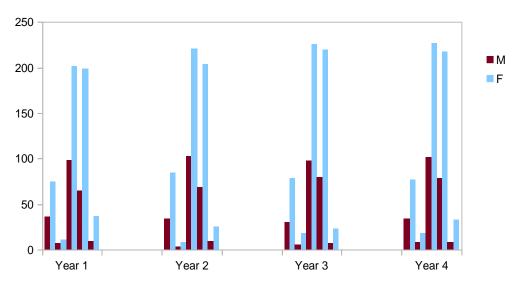
**2.1.6** Number of students admitted in the university departments in the last four academic years:

**PG** Courses

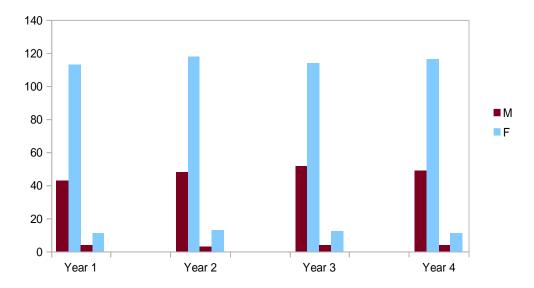
	Ye	ear 1	Year 2		Year 3		Year 4	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	36	74	34	84	30	78	34	76
ST	7	11	3	8	5	18	8	18
OBC	98	202	102	221	97	225	101	226
General	65	199	69	204	79	220	78	234
Others	9	37	9	25	7	23	8	33
Total	215	523	217	542	218	564	229	587

M.Phil

Year 1		ear 1	Year 2		Year 3		Year 4	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC/ST	4	11	3	13	4	12	4	11
Others	39	102	45	105	48	102	51	115
Total	43	113	48	118	52	114	55	126



Number of students admitted for PG courses in the universitydepartments in the last four academic years. M and F stands for male and female respectively



Number of students admitted for M. Phil courses in the university departments in the last four academic years.

Student Enrolment Profile for Diplomas and certificate courses of CACEE Consolidated Statement of Student Enrolment and Profile

Period	Male (%)	Female (%)	SC/ST (%)	Total
2009-2010	343	424	102	767
	45%	55%	13%	
2010-2011	196	452	99	648
	30%	70%	15%	
2011-2012	160	320	67	480
	33%	67%	14%	
2012-2013	279	571	93	850
	33%	67%	11%	
TOTAL	978	1767	361	2745

A brief description of student diversity at **CACEE** is provided below.

### • Age wise distribution

Students belonging to all age groups attend the courses. A tentative agedistribution of the course participants are provided below:

Sl.No.	Age group	Number	Percentage
1	Below 25	860	31%
2	26-40	815	30%
3	41-54	645	24%
4	Above 55	425	15%

# Occupation wise distribution

Sl.No.	Occupation	Number	Percentage
1	Government service	686	25%
2	Self employed	330	12%
3	Students	769	28%
4	Housewives	412	15%
5	Others	548	20%

#### • Male Female distribution

Sl.No.	Male(No.)	Female (No.)	Male(%)	Female(%)
1	978	1767	36%	64%

# • Community wise distribution

Sl.No.	Community	Number	Percentage
1	General	1474	54%
2	SC/ST	361	13%
3	OBC	875	32%
4	Others	35	1%

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

Ratio between seats and applications received in the University Departments

Year	No application received	No of students admitted	Ratio
2010-11	7598	738	10:1
2011-12	7694	759	10:1
2012-13	7714	782	10:1
2013-14	7791	816	10:1

# **Programme-wise analysis of the university Departments**

Sl.	Name of Course	No. of	No. of Applicants				
No.	Traine of Source	Seats	2011	2012	2013	2014	
1	Aquatic Biology & Fisheries (M.Sc.)	11	35	-	38	60	
2	Arabic (MA)	30	28	3	9	-	
3	Archaeology (MA)	12	60	39	81	-	
4	Bio-Chemistry (M.Sc.)	14	220	195	258	230	
5	Biotechnology (M.Sc.)	10	314	325	416	310	
6	Botany (M.Sc.)	10	185	285	413	395	
7	Chemistry (M.Sc.)	15	380	380	635	530	
8	Commerce (M.Com.)	30	304	190	440	302	
9	Communication & Journalism (MCJ)	20	192	158	266	-	
10	Computer Science (M.Sc.)	30	297	180	209	201	
11	Demography (M.Sc.)	10	52	11	31	-	
12	Economics (MA)	25	140	124	211	120	
13	Environmental Sciences (M.Sc.)	10	220	260	441	290	
14	Geology (M.Sc.)	10	80	101	88	115	
15	German (MA)	10	8	1	0	-	
16	Hindi (MA)	20	52	51	71	90	
17	History (MA)	20	97	62	160	-	
18	Institute of English (MA)	26	429	426	616	695	
19	Islamic Studies (MA)	10	3	6	8	-	
20	Library Science (M.Lisc)	22	100	70	106	110	
21	Linguistics (MA)	15	35	12	32	-	
22	Malayalam (MA)	25	58	47	121	130	

23	Mathematics (M.Sc.)	25	297	280	370	360
24	Music (MA)	10	4	6	17	-
25	Philosophy (MA)	10	19	22	31	-
26	Physics (M.Sc.)	15	512	484	633	620
27	Politics (MA)	20	58	85	122	158
28	Psychology (MA)	25	65	70	56	131
29	Sanskrit (MA)	10	3	1	13	-
30	Sociology (MA)	25	108	75	119	-
31	Statistics (M.Sc.)	20	165	98	161	230
32	Tamil (MA)	20	0	2	0	
33	Zoology (M.Sc.)	10	370	308	335	360
34	Education (M.Ed.)	30	92	65	121	99
35	Russian (MA)	10	0	-	0	-
36	Law (LLM)	20	102	85	93	80
37	Computational Biology (M.Sc.)	10	106	30	35	45
38	M.Phil Bioinformatics	10	-	-	_	-
39	M.Phil CADD	10	-	-	_	-
40	M.Phil. Computational Linguistics	10	-	-	-	-
41	M. Tech. Optoelectronics	15	-	-	-	-
42	M. Tech. Computer Science	20	-	-	-	-
43	M. Tech. Technology Management	20	-	-	-	
44	MBA	90	-	-	-	
45	MSW	20	208	160	276	-
46	Acturial Science	10	0	0	35	-
47	Integrated Biology	10	0	0	0	22
	Total	860	5398	4697	7067	5683

#### **Demand ratio for affiliated colleges (Arts and Science Colleges)**

Statistics of UG and PG Online Allotment

Year	UG		PG	
	No. of Applicants	No. of Seats	No. of Applicants	No. of Seats
2012	60532	22352	9387	3655
2013	63781	22871	9287	3355
	Demand ratio	3:1	Demand ratio	3:1

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

Nil

#### 2.2 Catering to student diversity

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

The university organises centralized orientation programmes for all students under CSS. In addition to this Department –wise induction programmes are undertaken with varying durations.IMK organizes induction programmes for a week. Similarly, commerce department organises it for five days. In such programmes cover career prospects /personality development and other soft skills.

**2.2.2** Does the university have a mechanism through which the "differential requirements of the student population" are analysed after admission and before the commencement of classes? If so, how are the key issues identifies and addressed.

After admissions, the Department Council undertakes an analysis on student population based on socio-economic and cultural factors. Based on the analysis, the course co-coordinators are directed to offer remedial programmes. The University allocates funds for remedial coaching to the needy departments. Students are directed to the centralized university facilities based on skill enhancement and counselling. Such Centres include Finishing School, Equal Opportunity cell and Health centre for counseling and so on.

2.2.3 Does the university offer bridge / remedial/ add-on courses? If yes, how are they structures in the time table ? Give details of the courses offered, department wise/faculty wise?

The university offers remedial programmes for weak students and slow learners and value added courses for advanced learners identified through Continuous Assessment process .

The university offers remedial coaching for weak students at the department level. Add-on Courses are available in several Centres like CACEE. Such courses are held during weekends and evenings of week days. Such programs include certificate courses inIT, Music appreciation, Functional English, Public speaking, Air lineTicketing and Travel Management, Computerized Accounting, C+, Computer hardware maintenance, certificate in web page designing, Radio and video Jockey, soft skills, Ayurveda Masseur and Pancha Karma Certificate in Nursing Administration and diplomas in Dissploma in Health and Sanitation, Diploma Physiotherapy, P G Diploma in Counselling, P.G. Diploma in responsible tourism, P.G. Diploma in Yoga Therapy

CACEE has developed individually tailored programmes to meet the needs of the society. The courses are designed in such a way that people from all walks of life get benefitted. There are specially designed courses for neo-literates and Kudumbasree workers (Community based Organizations and Management, Health and Sanitation etc), House wives (Early childhood care and Management, Pre-primary Education, health and nutrition, Cosmetology, Bakery and Confectionary etc), Politicians and Public servants (Professional Political Management), Content enrichment courses for Professionals (Nursing Administration, Criminology, Counsellingetc), Employment oriented Vocational and Computerised courses for students (Library Science, Computerised Accounting etc) thus catering to the need of all. Thus the students of CACEE form a heterogeneous group (Age wise, community wise, qualification wise)

In the affiliated colleges, the students' counselors identify the weak students and offer them special coaching under the tutorial system.

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

Based on Continuous Assessment, Department Council level assessment is made and weak students are addressed through remedial programmes. Similarly students from disadvantaged groups like low income group, SC/ST, differently abled students are taken care of by ascertaining their means and addressing the same.

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

Advanced learners are identified through the Continuous Assessment process. Such learners are given opportunity to reveal their creativity through group activities. The activities assigned are seminars, case study analysis, group discussions, live projects organizing events etc.

#### **Teaching – Learning Process**

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

Academic Calendar: CSS committee prepares an academic calendar for each academic year. This will be sent to all the departments where it will be displayed on the notice boards. The academic calendar is also available in the CSS office on demand.

The Academic Calendar provides information about:

- 1. Commencement of each semester
- 2. Registration for CSS
- 3. Mid-Semester Examination
- 4. Meeting of Department Monitoring Councils
- 5. End Semester Examination
- 6. Publication of results (Attached in Appendix)
- 7. Issue of mark lists
- 8. Holidays

University Level Monitoring Committee (ULMC) formulates the academic calendar for undergraduate and postgraduate courses of the affiliated colleges.

Teaching and Learning: Heads of each Department formulate a time table for the current semester and a faculty will be given charge of each course. At the beginning of each semester, the faculty in charge of the course would present the Teaching and Learning Plan, outlining lectures, assignments, test papers, seminar and other evaluative activities. Heads of each department design the time table giving adequate allowance to the time schedule for these external electives. The schedule of seminars and other orientation programmes to be conducted are well planned in advance to fit in to the time frame of academic calendar.

Evaluation Schedules: The teaching Departments adopt a double valuation system in which the course instructor does the first valuation and second valuation is done externally. The Department Council provides a list of members who are reputed faculty members at other universities as well as prestigious institutes which will constitute the exam board for question paper setting and evaluation.

Question paper setters will be identified by the Controller of Examinations from the panel submitted by Heads of each Department and will be asked to provide two sets of question papers for the final examination. Out of these one will be selected by the controller of examination.

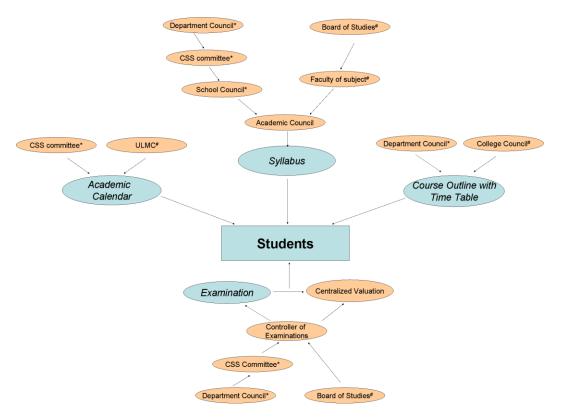


Figure shows the overall process of construction of syllabus, academic calendar, and conduct of examination. \* indicates the process in the University departments and # indicates those inaffiliated colleges.

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

The teacher in charge of the course prepares the course outlines at the beginning of the semester indicating the following: lectures, assignments, test papers, seminar and other evaluative activities. Academic calendar and time tables of the running semester will be displayed in the notice board of all departments. It is also given in the website. Teacher - in- charge of the course ensures that the classes are conducted as per the timetable.

Course outline is prepared prior to commencement of academic section. Effectiveness is evaluated to the components of continuous assessment, mainly mid semester examination, seminars, viva, presentations and projects.

The effectiveness of the process is ascertained through Continuous Evaluation and Mid-Semester examination. Based on the review, the course outline is revisited.

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

Yes, Due to the unexpected loss of working days by natural calamities, harthals and other causes, completion of curriculum within the stipulated time is a problem. This will be compensated by taking special classes on non-working hours and holidays. Thus, the University face no challenge in completing the curriculum within the stipulated period and the calendar. There is a provision to permit the teachers to prevent their vacation to face this type of challenge.

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

The design of mark distribution in internal assessment provides enough room for self-preparatory seminars and assignments for the student. The Faculty - in - charge of the course makes sure that each student is given a topic for self-preparatory seminars. The learning is made student-centric by encouraging the students in group discussion, quizzes on selected topics, interesting debates on socially relevant issues etc. With the help of smart class rooms equipped with LCD projectors and interactive boards, learning is made more interactive. Students are given freedom to select courses from their Departments as well as extra electives from other Departments.

The various strategies adopted by the faculty are:

- > Group discussions, quizzes, seminars and assignments
- Orientation classes for students
- ➤ Open seminars for the entire department which develops the communication and presentation skill of the student and raises his/her self-esteem.
- Central and Departmental library providing many reference books and online journals
- As part of Television Journalism Course, students prepare news reports and make their own visual presentation. They are shot on video camera again by students. These are then screened before the whole class to be evaluated by the student audience. For print journalism, students prepare and edit news reports. They also design the lay out and prepare the final pages using different editing software under the supervision of experienced faculty.
- ➤ Interactive sessions with professional bodies such as The Institute of Chartered Accountants of India (ICAI) and The Institute of Company Secretaries of India (ICSI)
- ➤ Communication and soft skill development program

- ➤ Department of Computational Biology and Bioinformatics adopted DCB student charter in 2007 to empower the students. The students themselves have debated and meticulously documented this charter. All students in the department are also required to fill in a question and drop it in a question box. Teachers choose the best question of the month and publish it and also recognize the questioner. Students often draw mind maps produced out of collective thoughts.
- **2.3.5** What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?

The University provides financial support to conduct conferences/seminars/workshops. The Department or the Convenor of such programmes sends an application form including the title, list of speakers who are experts in the field and the need for the programme. The Syndicate reviews the application and the grant will be sanctioned based on its relevance. In addition to these, the Departments themselves conduct invited lectures by eminent persons. Many renowned academics from within the country and abroad including nobel laureates delivered lectures and interacted with the students under the Erudite programme initiated by the State Higher Education Council. Some of the eminent speakers who visited the University are Prof. Martin Chalfie, Dr. Johann Deisenhofer, Prof. Ada Yonath, Dr. AmartyaSen and Padmavibhushan G. Madhavan Nair.

Equal Opportunity Cell conducts Orientation programmes for the upliftment of Scheduled Caste, Scheduled Tribes and Women.

**2.3.6** Does the university formally encourage blended learning by using elearning resources?

The University ensures smooth and updated teaching and learning process by adopting modern technologies such as e-learning resources. Blended learning is made possible through the utilization of e-resources in the library and use of group mails. The other initiatives are:

- ➤ Campus library has a computer room equipped with computers and internet facility.
- Library has subject specific search engines/databases such INFLIBNET, SciFinder etc. for searching a topic of research or academic interest.
- ➤ Library conducts Orientation Programme or training programme to help familiarise in the use of these database
- Study materials are circulated through emails.
- ➤ Prelab session includes showing the animation of the experiment to be conducted in the department.

- **2.3.7** What are the technologies and facilities such as virtual laboratories, elearning, open educational resources and mobile education used by the faculty for effective teaching?
  - > Use of ICT in the class room
  - > Subscription to many online journals.
  - > Subject specific databases such as INFLIBNET, SciFinder.
  - Campus High Performance Computing Facility providing a centralized place for computing.
  - ➤ Open source software 'Moodle' for managing courses.
  - ➤ E-methods for locating statutes and cases.
  - ➤ Teachers allow students to use e-mail and web portals for exchange of teaching, learning materials and dissertations.
  - ➤ Modern softwares for editing like Quark Express and Adobe indesign are used as part of training in the media lab.
  - ➤ Discussion blogs, interactive CDs and educational CDs.
  - ➤ Some departments have their own discussion groups in Facebook and Googleplus for sharing academic thoughts. The Department of Computational Biology and Bioinformatics have their own educational channel on YouTube, 'DCB Drisya'.
  - ➤ Many courses on Computer applications in various subject such as fisheries, biology, geology and chemistry have been introduced.
- **2.3.8** Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?

Many formal and informal groups of faculty members are involved in monitoring the trends and issues regarding the developments in Open Source Community. In the use of software, concerned Departments have a tradition of promoting Open Source Software. Some Departments use Linux operating systems in a major way. The University promotes the software 'Scilab' and a book published by faculty members of this University on Scilab is listed as Key reference in Scilab open source community website in France. Science departments encourage open access journals by opting to publish in it. Students are also encouraged to take up projects with Open Source Drug Discovery projects of CSIR.

Most of the faculty are members of recognized academic bodies. There are many associations founded by the University faculty such as Patent Cell and Legal Aid in the Department of Law, Indian Association for Hydrogen Energy and Advanced Materials (IAHEAM) of Chemistry Department, DCB Foss and DCB Outreach of Department of Computational Biology and Bioinformatics (DCB). All these are actively involved in organizing awareness programmesat various levels and motivate the students by conducting various competitions in the area. The Department of Education conducts free individualized education program (IEP) for children with special needs (CWSN). Their centre for learning disabilities and difficulties also provides counselling for teachers and parents of CWSN and helps the parents to monitor progress of IEP of their ward. The Department of Environmental Sciences is associated with Environmental NGOs to visit environmentally fragile areas and observe their activities regarding environmental protection (Help Foundation NGO is involved in reclamation of Paravurlake by Mangrove cultivation involving local community).

**2.3.9** What steps have the university taken to convert traditional classrooms into 24x7learning places?

The University has recently upgraded the departmental class room to smart class rooms equipped with multimedia projectors, computer with internet facility and interactive board. However, 24x7 facility is not available.

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

Every department has faculty counsellors assigned for each batch of students. This is as per CSS requirement. The faculty counsellor takes care of academic and personal needs of students. On an average, the ratio of students to faculty counsellor is 10:1. In addition to this, both the campuses have health centres with the services of specialized counsellors in clinical psychology. 'Bodhana'- a Stress management and Counselling unit has just started functioning in the nodal centre for District Mental Health Program (DMHP) at the Department of Sociology.

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

In addition to the conventional styles of class tutorials, various novel approaches are employed by the Faculty to create an appropriate environment for mutual learning. The teachers are given the freedom to evolve appropriate methods of teaching based on the nature and content of the courses offered. These innovative methods are listed below:

- ➤ Conducts mock interviews, career development programmes, mock press conferences.
- ➤ Innovative 'Learning to Learn' induction programme for masters students.
- ➤ Live projects, case-study methods.
- ➤ Negotiated syllabus and freedom in continuous assessment.
- > 'Learn by Doing' hand-outs for labs.
- > 'Question a day' initiative and 'Best Question of Semester' prize.
- Drawing lots for selecting students for all activities.
- ➤ Community outreach through educational channel on YouTube Dept. of Computational Biology.
- Active e-mail groups with invited external mentors.
- Consistent staff development sessions and Lecturing / training experience at other colleges / institutions.
- ➤ Introduction of flexi-modules to keep syllabus dynamic.
- All journalism students are taken to the Legislative Assembly during sessions and they prepare and file reports regarding the proceedings. They are also assigned regular beats (places of news event) to report. Discussion schedule is provided for student interaction on contemporary and socially relevant issues.
- ➤ Use of spoken tutorials and video tutorials in teaching.
- Distributed teaching (all lecturers share teaching of all subjects).
- > Scheduled discussion hours for free-wheeling student interaction.
- > Student coordinators for courses &programmes.
- Lecturers' scholarship covering semester fee for needy students.
- > Study materials circulated through collective emails.
- Conducts teacher's evaluation by the students, incorporate the creative criticism, and improve the performance
- ➤ Conduct training classes for competitive exams such as NET
- > Critical pedagogy is applied toteach human rights.

The effectiveness of these methods is evaluated by assessing the student performance in course examination as well as in other competitive examinations. The course Director will report on the same to the department council and the Department Council would assess the effectiveness. Faculty are provided with adequate resources and support for carrying out these novel methods under the guidance of course coordinator. In the affiliated colleges, the approaches adopted by the faculty are reviewed at the departmental level and then chaired by the Principal.

The University provides Best Department Award considering curricular, academic, teaching, learning and research aspects. Details are given in the appendix.

- **2.3.12** How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?
  - > Student projects as part of master's curriculum.
  - Creative individual and group assignments.
  - Organizes seminars/conferences on important research topics.
  - Creative workshops on research methods.
  - > Involvement of students in research projects.
  - ➤ Walk With a Scholar program (WWS)
  - > Invited lectures from experts of the field.
  - Encouraged to do summer or short term external research projects.
  - Exhibition
    - a. Manuscript Library
    - b. Observatory
    - c. HerbalGarden
    - d. Earth Sciences
  - Discussion on relevant topics of social as well as academic interest.
  - ➤ Most of the departments conduct open seminar every week for the entire student community.
  - ➤ Various student clubs and their thought provoking activities.
  - ➤ MPhil and PhD courses include "Research Methodology" paper which promote critical thinking formally.

- Most of the departments are involved in programmes and courses such as "fostering scientific temper", One Day/FunDay, Legal education to foster creativity, awareness and scientific temper in department students as well as school students. There are also archeological field investigations, monument, excavations and exploration reports. Most of the departments including Economics, Commerce, Management, Computer Science and Environmental science organize interuniversity competitions to enhance the organizational and creative capabilities. The competitions include quiz, debates, paper presentations, poster presentations, best project awards, best marketing awards and HEAM scientist award.
- ➤ University fellowship to do research.
- ➤ FLAIR Fostering Linkage In Advanced Innovative Research
- **2.3.13** Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?

The syllabus of Undergraduates, Postgraduates and M. Phil courses have student projects which are mandatory for course completion. All the faculty members are actively engaged in supervising these student projects. On an average, number of project to faculty ratio is 3:1 in the master's level and 2:1 in the M. Phil level.

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

The University has a pool of well qualified teachers who are carefully selected as per UGC regulations. Wherever shortfall is noticed, the University makes use of the services of Retired faculty, Adjunct Professors, and Professor Emeritus. If there is still a shortage, the University appoints guest faculty/contract lecturers.

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

Teachers are provided orientation in use of software aided smart class rooms. Wi-Fi facility is made available in the campus. The computercentre and the Centre for Computational Facility assist teachers in preparing teaching-learning process. Training/orientation programmes are conducted every year for teachers to get familiarized with the various resources available to make computer aided learning materials. Campus Computing Facility serves as the centre to conduct the training on open source programmes such as model (a software to manage and track courses). AcademicStaffCollege and University

library also provide computer training to teachers. The University encourages teachers to participate in workshops on computer aided teaching and learning organized by agencies such as IITs and Higher Education Councils.

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

Yes. The University's IQAC team monitors the evaluation process of teachers. The feedback report of each faculty member is forwarded to the concerned Head of the Department. Creative criticisms are incorporated to redesign the teaching method adopted by the faculty member to achieve improved performance.

### 2.4 Teacher Quality

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

The University of Kerala has adequate, well qualified faculty. The University has been making all possible efforts within its administrative autonomy to ensure adequate availability of the human resource to meet the functional requirements in all its wings including the teaching departments and research centres.

The University has, indeed, made a recruitment drive during the past couple of years to fill up the vacant posts. As a result, the university has a total of 176 faculty members in its roll at present. Efforts are made to fill up the remaining few posts. We use the services of adjunct Professors of emeritus and visiting faculty in emerging areas like Nano Science, Bio- Informatics, Computer Aided Drug Design, Media Studies and Technology Management. The planning department is looking for teachers with specialized knowledge in emerging areas. The university has a total of 176 teaching staff including Professors (32), Associate Professors(50) and Assistant Professors (94).

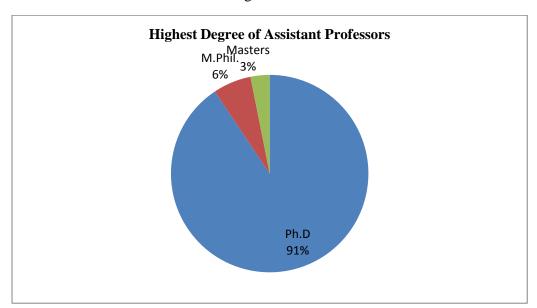
The university is an equal opportunity provider with regard to the gender balance in faculty intake. There is more gender equity in faculty positions (Figure 2.4.1). Gender equity is more visible towards younger faculties.

70 60 50 40 Male 30 ■ Female 20 10 0 Professor Associate Assistant Total Professor Professor

Figure 2.4.1

#### 2.4.2 Qualification of teachers

The university ensures the quality of the teaching staff in all respects. This is evident from the fact that all Professors have Ph.D. degree, followed by Associate Professors (94.00) and Assistant Professors (91.00 percent). It is notable that most of the Assistant Professors, appointed within a few years, hold Ph.D. degrees. A lesser percentage (6.00) have M.Phil. and still lesser percentage (3.00) have Masters as their highest degree (Figure 2.4.2).



**Figure 2.4.2** 

Highest Degree of Associate Professors
Masters
M.Phil.
6%
Ph.D.
94%

Figure 2.4.3

The quality of the teaching staff is also evident from the fact that all the Professors and Associate Professors are research guides with long years of standing and have produced enormous amount of output in their respective areas of specialisation. It is significant that 59.00 percent of the Assistant Professors too are approved research guides of the university (Figure 2.4.4 &2.4.5). They are active in research apart from teaching with live enrolment of research students.

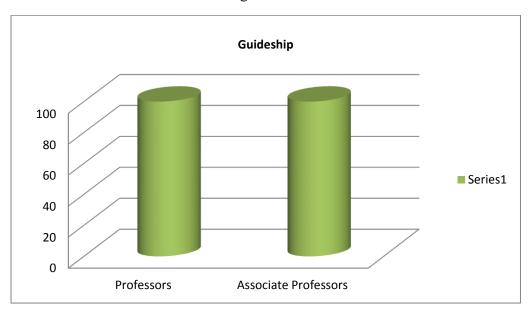
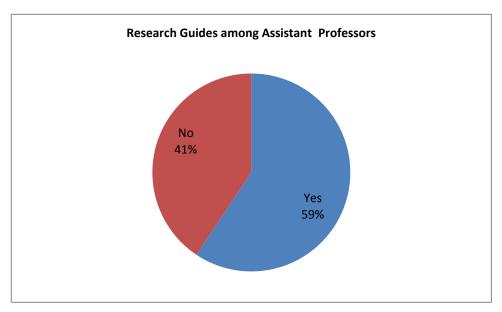


Figure 2.4.4

Figure 2.4.5



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

The faculty of the university earned their degree from various institutions of high repute both within India and outside. The university strictly adheres to the respective reservation policies as stipulated by the government, thereby ensuring diversity and inclusion.

Figure 2.4.1

Dept/School	% of faculty from the same university	% of faculty from other universities within the state	% of faculty from universities outside the state	% of faculty from other countries
School of Business Management and Legal Studies	46	36	18	0
School of Communication and Library Science	76	12	12	0
School of Distance Education	78	22	0	0

School of Earth System Sciences	60	30	10	0
School of English and Forgiven Languages	64	24	12	0
School of Fine Arts	100	0	0	0
School of Indian Languages	50	25	25	0
School of Life Sciences	50	25	20	5
School of Physical And Mathematical Sciences	48	26	20	6
School of Social Science	70	21	6	3
School of Technology	22	39	26	13

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

The University of Kerala is in the forefront in keeping pace with the cutting edge areas of technological knowhow in the case of teaching and research. The university has a fully functional Department of Biotechnology and Department of Computational Biology with qualified specialised teachers. Bio informatics has 3 and Biotechnology has 2 teachers. Besides, the University has a Centre for Nano Science and Centre for Media Studies, both headed by university teachers and using the service of visiting faculties.

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

The University has significant number of exemplary personalities as emeritus/distinguished professors. They are guiding forces and add to the enrichment and competency of the departments along with the faculties in roll.

**Table 2.4.2Emeritus / Adjunct Faculty / Visiting Professors** 

	Emeritus	Adjunct Faculty	Visiting Professor	Total
No	8	2	15	25

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

The University follows liberal policy in encouraging its faculty members to attend orientation, refresher and recharge programmes. It also encourages and enables its faculty members to engage in quality and competency improvement programmes that include but not limited to

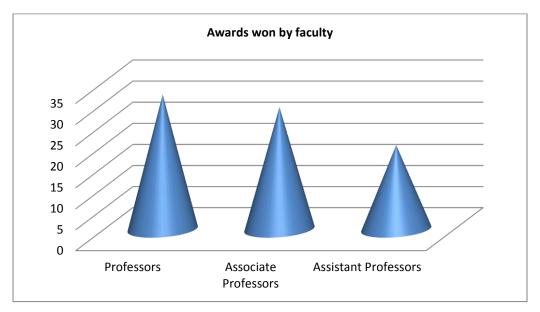
- a. Attending faculty development programmes/training programmes.
- b. Participating in National/International workshops/conferences/ seminars etc.
- c. Undertaking consultancy assignments
- d. Carrying out research and publish in scholarly journals.
- e. Participation in training programmes for research guides
- f. Training Programme of HEC, Govt. of Kerala
- g. Winning competitive research awards/grants from external agencies including national and international and
- h. Teaching and guiding students in PG, MPhil. and Doctoral Programmes

University also funds the departments to conduct Workshops on research methodology with a view to equip its faculty with sharp skills in research.

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

Around one third of the Professors in the university have received awards/recognitions for excellence in teaching at the state, national and international level. They are followed closely by Associate Professors. It is worth noticing that one fifth of the junior faculty have won awards for excellence in academic performance in the very beginning of their career.

Figure 2.4.6



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

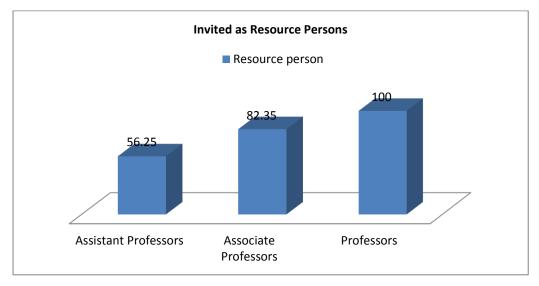
**Table 2.4.3** 

Academic Staff Development Programmes	Number of faculty
Refresher courses	18
HRD Programmes	6
Orientation Programmes	6
Staff training conducted by the university	122
Staff training conducted by other institutions	56
Summer /winter schools, workshops etc.	29

**2.4.9** What percentage of the faculty havebeen invited as resource persons in workshops/seminars/conferences organised by external professional agencies?

The University encourages its faculty to participate in the academic events of national and international repute of their choice within the country as resource persons. All the Professors are being invited as resource persons in such programmes, followed by Associate Professors (82.35 percent). Among the new entrants (Assistant Professors) as well more than half (56.25 percent) are invited as resource persons (Figure 2.4.7).

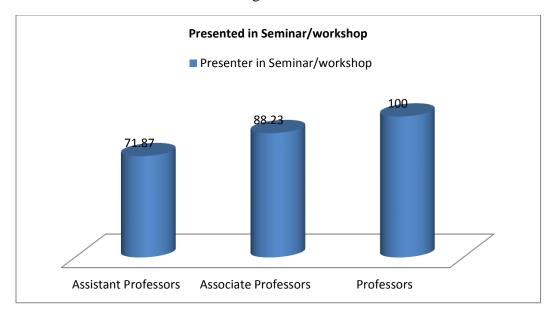
Figure 2.4.7



### Presentations in workshops/seminars/conferences in India

In making presentations in workshops and conferences too, the faculty performs well. All the professors do make such presentations (Figure 2.4.8). The Associate Professors (88.23 percent) and Assistant Professors (71.87 percent) follow them closely.

Figure 2.4.8



#### • Participate in external workshops/seminars/conferences abroad

The University promotes and encourages its faculty to participate in academic events abroad. Nearly half of the faculty of the university have academic engagements/experience abroad (Figure 2.4.9). Most notable is that 43.75% of the entry cadre (Assistant Professors) have foreign experience.

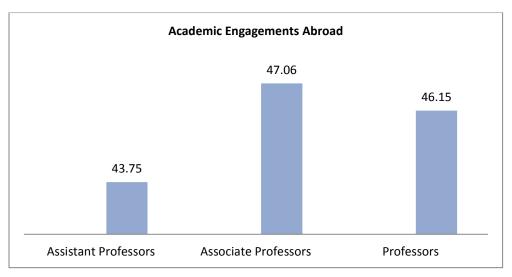


Figure 2.4.9

# Teaching experience in other universities/national institutions and other institutions

24% of the faculty have teaching and research experience (upto four years) in other renowned universities in India.

#### **Industrial engagement?**

11% of them have various kinds of experience in industry.

### International experience in teaching?

6% of the faculty have experience in teaching in foreign universities across the globe.

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

The university organizes curriculum development programmes once in two years.

# 2.4.11 Does the university have a mechanism to encourage mobility of faculty between universities for teaching?

The university facilitates mobility of its faculty to participate in inter university academic and research programmes. This is mainly through the faculty exchange programme of Kerala State Higher Education Council (HEC), Govt. of Kerala.

#### Faculty exchange programmes with national and international bodies:

The university promotes faculty exchange programmes with foreign universities situated across the globe. At the national level, this happens through faculty exchange programme of the HEC and at the international level, through MoU with foreign universities.

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

The faculty exchange programme has helped them to keeppace with the innovations in teaching as well as current developments in their respective disciplines.

#### **Staff Development Programmes**

All the Professors and Associate Professors have participated in orientation/refresher courses. All Assistant Professors have participated in enriching courses (Figure 2.4.9).

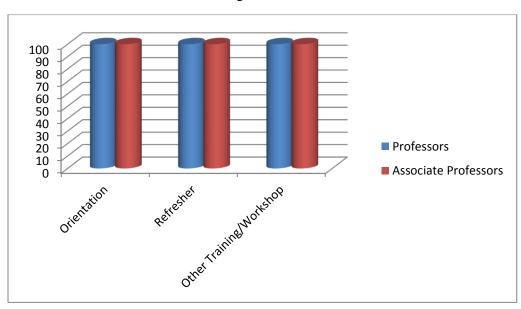
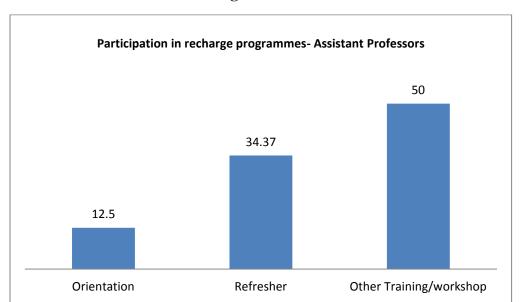


Figure 2.4.9



**Figure 2.4.10** 

Among the Assistant Professors, 12.5 percent have undergone orientation programmes. While 34.37 percent have attended refresher course, half of them have participated in other trainings/workshops.

#### **2.5.1** Evaluation process and reforms

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

University of Kerala adopts the following mechanisms to ensure that all the stakeholders are aware of the evaluation processes that are operative. They are

- The components of internal and external assessment and guidelines relating to the conduct of evaluation procedures are also displayed in the University website (<a href="www.keralauniversity.ac.in">www.keralauniversity.ac.in</a>. Examinations)
- At the time of admission the Head of the Department explains to the student and the parents the evaluation criteria and the details of the course.
- The components of internal and external assessment and guidelines relating to the conduct of evaluation procedures are printed in the prospectus distributed to the students
- The Head of the Department meets all newcomers on the first day of day of the new semester and explains the academic programmes and evaluation procedures that are followed.

- The University conducts Orientation Sessions for the students during the first week of the first semester to explain the evaluation procedures.
- The dates for conducting internal assessment tests and end semester final exams are printed in the Academic Calendar prepared by the CSS Office. It is displayed in the notice board and university website. The Academic Calendar is also circulated among the students.
- A Course Coordinator from among the faculty is appointed for every semester.
- The Course Coordinatorensures that every student is informed about the evaluation procedures and complies with the requirements of internal assessment.
- Clarifications are given to parents on evaluation processes during Parents' Teachers Council which is conducted regularly in the concerned teaching departments of the University.
- The Department Students' Union conducts awareness programmes about CSS. The programme covers the structure of CSS, hierarchy of officers, rights and duties of the students.
- PTA is constituted and its meetings are convened once in a month. The PTA ensures that there is a close relationship between the family of the students and the department.
- There are representatives of stakeholders like student NGOs',politicians, members of legislatures in the Academic Bodies like syndicate, Senate and Academic council
- When it is found that students are weak in their studies, the faculty resorts to supportive measures such as academic support and interaction with the parents.
- 2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system?

In the affiliating colleges, at the UG Level Choice Based Credit and Semester System (CBCSS) was introduced in 2010 and at PG level in 2012. At the UG level courses were classified in to core courses, complementary courses and elective courses. Elective courses were of two categories, intra departmental and inter departmental. At the PG level courses were classified as core and elective. There is provision for continuous internal assessment in both PG and UG. The other examination reforms include course work examination for PhD, hologram certification and proposal for online question paper submission.

At the university department level, students are evaluated through a continuous system of evaluation .It comprises of:

#### 1. Internal Assessment

#### 2.End Semester Examination

As a result, students do more work preparing for tests, seminars and assignments. Quality Assessments are included in the Internal Assessment.

#### **Internal Assessment**

The internal assessment comprises of marks for 4 components - attendance, mid semester examination, seminar presentation and assignment . It is given in the following figure and Table:

**Figure 2.5.1** 

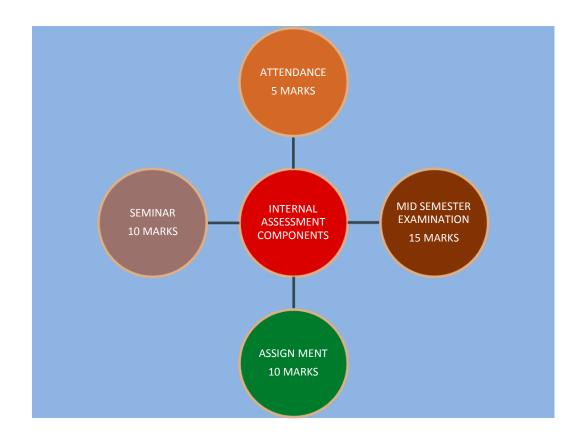


Table 2.5.1

Continuous	Attendance	Mid	Assignment	Seminar	Total
internal		Semester			
assessment					
CIA	5	15	10	10	40 marks
End					60 marks
Semester					
Total					100 marks

#### Attendance

Monitoring of regular attendance of students is a part of continuous evaluation. 75% of attendance is needed for a student to appear for the examination.

#### **Mid –Semester Examinations**

Mid - Semester Examinations are conducted by the department as per CSS guidelines.

#### **End Semester Examination**

The End Semester Examinations are conducted by the CSS

### **Assignments and Seminars**

- 20 marks out of 40 marks are assigned for quality assessment. Students undertake class mini projects, seminar presentations and write assignment related to the subject to earn marks through quality assessments. The performance of the students in the seminars and assignments are judged based oncriteria prepared by the concerned course teacher and approved by the Department Council. The criteria is recorded in the Department Minutes book
- Assignments and seminars are chalked out by the concerned departments in a manner that helps the students to develop a clear perspective and a critical appraisal of things around them. For example
  - In the Department of Geology assignments on field problems related to societal needs, like solving drought in an area, mitigating landslides, mapping an area to find out resources, surveying area are given and solutions given by each students are evaluated by the teachers. Such activities provide a chance to the students to learn to identify a research problem and methodology.

- In the Department of Zoology weekly seminar and discussions on various aspects of the core programmes are useful to maintain a scientific temper and learning
- In Department of Tamil apart from regular seminars, students are asked to enact characters from particular literary texts to gain first-hand experience of the text.
- In Department of Mathematics problem solving skill of students is developed through assignments and presentations.
- In the Department of Journalism students prepare news reports and make their own visual presentation. They are shot on video camera again by students. These are then screened before the whole class to be evaluated by the student audience. For print journalism, students prepare the news reports, edit them, design layout and makes the final pages using different editing softwares. Thus the professional training imparted is more student centric with the supervision of the experienced faculty.
- In the Department of Computer Science, case study is introduced in the three semesters which is to be done in groups of 3 to 4 Research oriented Mini Projects are to be done in groups as part of laboratory classes. Periodic evaluation and group discussions are done in each group.
- In the Department of Bio informatics every day, all students are required to fill in a question and drop it in a question box. Lecturers choose the best question of the month and publish it and also recognize the questioner. Students often draw mind maps produced out of collective thoughts.
- In the Department of Law, seminars incorporate the critical pedagogy. Joint Seminars are also conducted where students present papers on current affairs/issues. Joint seminars are open to the public. The performances of the students are evaluated by the students themselves based on the criteria given to them.
- **2.5.3** What is the average time taken by the university for declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the university for the publication of examination results *e.g.* website, SMS, email, etc.).
  - Results are published within 30 days of the last exam of the particular semester.
  - CSS headed by the Vice-Chairman prepares Academic Calendar for each semester.

- Strict adherence to Academic Calendar is maintained.
- The Academic Calendar is uploaded in the university website. It is also circulated among all departments. The H.O.Ds exhibit a copy of the Academic Calendar on the notice board
- The course coordinator of the respective semesters also ensures that everystudent has information relating to the same.
- Normally there is no delay because each department starts the valuation within 10 days after an examination
- The results for the affiliated colleges are published through the website (<a href="www.keralauniversity.ac.in">www.keralauniversity.ac.in</a>. Examinations)
- **2.5.4** How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?

#### **Transparency:**

- To ensure transparency, students are given the option of getting the photocopies of their answer sheets of the end semester examination along with marks scored.
- The mid semester answer sheets are handed over to the students within one week of the examination along with marks scored.
- For attendance every department keeps an attendance book which is handed over to the CSS at the end of the academic year for verification.
- Any complaints regarding evaluation can be placed before the Head of the Department concerned.
- The Assignments and Seminars are also evaluated by the teachers of the respective courses. Assignments are submitted in hard copy format and marks are announced after evaluation. Seminar papers are circulated as soft copy. Marks are announced in the class room after the presentation. Students are given an opportunity for improvement.
- The papers of the end semester are subjected to double valuation. If there is a variation of more than 8 marks awarded by the external and internal examiners, then the papers are sent for third valuation by the chairman.

- When third valuation is done the average of the marks of the third valuation and valuation having least difference with the third valuation is taken.
- A grievance cell is constituted by the CSS to address the grievance of the students.

#### **Confidentiality:**

• False number system is being followed during the evaluation to ensure confidentiality.

Confidentiality and Transparency is maintained throughout the pre examination, examination process and post examination processes.

- **2.5.5** Does the university have an integrated examination platform for the following processes?
  - \* Pre-examination processes Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
  - \* Examination process-Examination material management, logistics, etc.
  - \* Post-examination process Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.

The preexamination, exam process and postexamination processes are under the common platform initiated by the CSS and completed by the CE

Preexamination processes	Time table generation, Student list generation, invigilators, squads, attendance sheet,
Examination processes	Examination material management, logistics etc.
Post examination processes	Attendance capture, result processing, certification etc.

# **Pre examination Process**

Timetable generation	Mid Semester Timetable is prepared by the Head of the Department in accordance with the Academic Calendar of CSS.
	End Semester Time Table is prepared by the CE and the same is displayed on the University Website and displayed on the notice board of respective departments.
Student list generation	List of students appearing in each hall, with the seating chart are prepared well in advance and the seating hall details are also displayed along with the timetable in respective Departments.
Invigilators	According to the student strength of each session, invigilator rosters are prepared for each session by the Head of the Department. The invigilation list is approved by the Department Council.
Squads	The Controller of Examinations deploys squads to the Examination centres. They visit the exam halls to oversee the process.
Forms	Marks sheets of the <b>CSS Form I and II</b> are kept ready to enter the marks internal and end semester marks.

# **Examination Processes**

Examination MaterialManagement	The stock position of Exam Answer sheets, packing covers etc. are maintained in registers at the Department and CE makes arrangements for procurement whenever it is necessary.
Logistics	The answer sheets are supplied according to the student strength of each session. The answer sheets of the absentees are received back and accounted
Question papers	The question paper is despatched in university vehicle prior to the examination The sealed packet is kept with safe custody of the Head of the Department.

#### **Post Examination Processes**

Attendance capture	The daily absentees are entered in a computer system. Based on this, false numbers are generated by the computer system and these numbers are pasted on theanswer sheets.
Marks entry forms	Mark entry forms are printed and the evaluators enter the marks in it
Result Processing	The result processing works are done in one location at Department/ CE
Pass Board	The processed results are submitted to the Result Passing Board for approval.
Certification	After the publication of the Fourth Semester Results, certificates are prepared and issued to the students. The certificates contain various security features. Hologram ensured certificates are issued.

#### SECURITY OF THE EVALUATION SYSTEM IS ENSURED

**2.5.6** Has the university introduced any reforms in its Ph.D. evaluation process?

Yes, the university has introduced reforms as per the university order number No. Ac. E1. B3/2009 dated 10.07.2009. U.O. of even no. dated 12.10.2010.

The University of Kerala has a Research Portal (<a href="http://research.keralauniversity.ac.in/index.php">http://research.keralauniversity.ac.in/index.php</a>).

The Research Portal, a single point securely hosted solution, is customized to seamlessly integrate, search and manage all PhD research activities of the University. The research portal coversall aspects related to PhD research like streamlining the administrative processes involved in submitting the application, issuing registration order and the like, submission of monthly progress report, list of approved guides, proforma of guides, all orders relating to PhD. The orders are in downloadable format.

The University of Kerala follows the UGC regulations for evaluating Ph.D. works since 2010. The new regulations contain details regarding the admission process, number of candidates guided by a Supervisor at any given time, Doctoral Committee, Course Work and Evaluation of Thesis. All queries relating to research can be sent to <u>research.keralauniversity@gmail.com</u>. To help

the students understand the fundamentals of research methodology, the university of Kerala has introduced the following steps:

- Six months Course Work mandatory for all students. Students have to clear the course work within two years of registration. Course work contains three papers out of which the first paper is Research Methodology and the rest of the papers from the research area itself
- The syllabus of Research Methodology paper is prepared School wise. For example the School of Business Management and Legal Studies prepares a common syllabus for the departments that comes under the school, ie., department of management, commerce and law.
- The syllabus of Research Methodology paper is drafted, discussed and approved by the respective School Councils. Once it is approved by the School Council the Director forwards it to the Director Research who in turn forwards it to the CSS Vice Chairman.
- The CSS Academic Committee gives the final approval of the syllabus.
- 5 day workshop for Research Methodology is conducted twice a year (may and November) for the full time and part time research scholars of the respective students. Attending the workshop is mandatory for all research scholars.
- Annual Assessment of the progress of the student is done by the Department Council. The progress report is submitted along with the thesis.
- Pre-Submission Viva is conducted. The guide gives a panel of experts from which the expert is selected by the Vice Chancellor. The pre-submission Viva is conducted at the teaching department. The external expert, Dean of the faculty or Dean's representative, Chairman Doctoral Committee and the supervising teacher forms the part of the evaluation committee. It is mandatory that all research scholars of the faculty attend the pre-submission viva. The final draft is presented and whatever suggestions are given by the external expert, it has to be carried out by the scholar. The suggestions are also to be bound along with the thesis during final submission.

- It is mandatory that the research scholars must publish two research papers in recognised research journals of the faculty concerned.
- **2.5.7** Has the university created any provision for including the name of the college in the degree certificate?

To be introduced for autonomous colleges from 2014/15

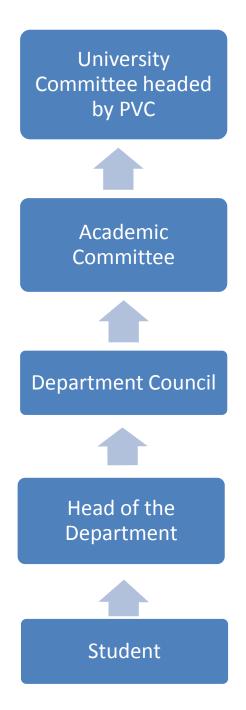
**2.5.8** What is the mechanism for redressal of grievances with reference to examinations?

The following are the steps for redressal.

- Students can report to the course- co-ordinator if they feel their marks are not as expected. The course co-ordinator reports the matter to the Head of the Department. The HOD shall do the needful as per the standard practices
- Immediately after a particular exam is over, if there are questions outside of the syllabus, or if there is any error in the question, students inform their grievance to the subject teacher who in turn writes a letter to the Head of the Department. The HOD shall do the needful as per the standard practices.
- Since 100% of the end semester papers go through a double valuation system possibility of error/complaints is reduced.
- However, if the student is not satisfied the H.O.D initiates remedial action.
- Results are kept under safe custody with the HOD for three days. Students can rectify their grievances, ifany, within these three days.

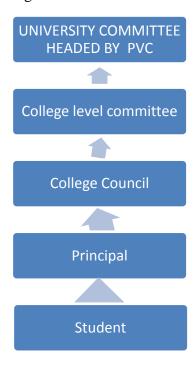
Grievance mechanisms available for students can be shown by the following figures

Figure no 2.5.1
University Teaching Departments



#### AFFILIATED COLLEGES

In the affiliated colleges the grievance mechanism are as follows



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

University of Kerala conducts thousands of examinations for hundreds of different courses in two sessions every year. University examinations are conducted in more than 250 affiliated colleges spread in Thiruvananthapuram, Kollam, Alappuzha and some parts of Pathanamthitta districts.

The office of the Controller of Examination of University of Kerala is computerised.The university website of of Kerala (http://exams. keralauniversity.ac.in) provides a single window online facility for every candidate of the University for pre-examinations enrollment, registration to University examinations and getting the scores in the examinations. Colleges can submit details of candidates for examination registration and download hall tickets online through this portal. Result analysis feature of the site provides a quick and easy way to compare the course wise and college wise performance of candidates in University examinations. Availability of an extensive resources of downloads related to different online procedures, several forms connected with examinations, fee details of different courses makes this website highly useful and user friendly to candidates and colleges alike.

The website contains all details relating to

Notifications Help Desk

Exam Fees Contact Details

Press Releases Research

Courses Computer verification

Colleges Online Registration

Sitemap

#### The Portal also contain the following features

#### 1. Teachers Index Card

The University has designed a portal for storing the details of teaching staff of all the colleges under its jurisdiction. It is called Teachers Index Card. It assists the examination wing in appointing the question paper setters and examiners for various examinations conducted by the University.

#### **Result Analysis**

Result analysis page provides a quick online mode for each college affiliated to the university to make an evaluation of its pass and fail level in university examinations. The page also helps each college to compare its examination performance with the performance of other affiliated colleges. Results of examination under different schemes, semesters and sessions are generated by the click of the mouse. Graphical representation along with the display of details help in getting an easy understanding of the performance level. The page also provides facility to display the top rank colleges in each examination and the top rank candidates in each college.

The different analysis are detailed below

The Portal includes 4 types of analysis, namely

- Exam Result & Analysis: Individual and Overall Examination Result Analysis
  of Declared Examinations.
- Pass Analysis: Pass percentage for courses or college for over a period of time or desired year.
- Fail Analysis: Fail percentage for courses or college for over a period of time or desired year.

#### 2.6. Student performance and Learning Outcomes

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

We have no specifically developed graduate attributes documented but the University has a carefully designed curriculum for every courses. The curriculum document specifies the objectives with measurable outcomes.

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

Yes, the university has clearly stated learning outcomes as envisaged in the University vision document. The main goals for the courses being offered are well articulated so as to check whether the students achieve them and to use the results to make the courses better. The basic objective of the teaching learning process is to enable the students achieve the stipulated level of knowledge acquisition and skill development as required in the syllabus prescribed by the University. Each department takes special care to have its own specific learning outcome catering to the needs of research institutes and employment market. The students are made aware of these by the departments during the time of admission and through the induction classes organized in the beginning of each semester.

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

The University has a well structure teaching- learning and evaluation system under CSS. The strategies are linked to these guidelines and evaluation processes.

The following are somestrategies adopted by the University to facilitate achievement of intended learning outcome.

- Modern technology and teaching aids are used by the faculty members
- Dissertation, industry projects, internship, seminars and assignments are an integral part of the syllabi of most academic programmes. Faculty members guide the students and monitor their performance in these components of evaluation.
- Soft skill training is imparted through finishing schools.
- Induction programmes are organized by majority of departments
- The University has structured committees like Guidance cell, Placement Cell, Counseling Cell, Environmental Cell, Consultancy ServiceCell and Communication Club attached to several departments to help the student orient themselves in relation to specific aims.
- **2.6.4.** How does the institution collect and analyze data on student performance and learning outcomes and use it for overcoming barriers of learning?

Each department has a continuous assessment system with weightage for components like seminars, attendance, mid semester examination, test paper, and projects. Data on the same is compiled by each department and forwarded to the CSS in Form III

Apart from the internal examinations, the regular end semester evaluation results are analyzed and more attention is given to students as per the requirements. The teachers are required to maintain the records of the grades obtained in different criteria by the students in their charge. The Head of the Department keeps records of students getting placements in research institutions and institutes of higher learning. The faculty use the feedback from students to improve the quality of teaching. The grades of performance as assessed by the students are informed to the faculty by the Head of the Department

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

New technologies are deployed by the institution to enhance student learning. All departments provide internet facilities to their students and the campus library internet facility is also open to students. Advanced computing facilities in statistics, economics, physical sciences, applied sciences etc.are provided by the Computing Centre associated with the University. The University has an Instrumentation Centre and a Computer Centre for providing and monitoring technical support. E-webinars are demonstrated for the benefit of the student community. New technology awareness classes are organized in each department and teachers use modern audio, visual teaching aids. All the departments have smart class room facilities. Some departments have installed Moodle and open courses are offered. Several new technologies are deployed to enhance student learning outcomes by each departments. These include prelabsessions simulated using animation and on line search engines. The Department of Computational Biology has released its first online tool, CGREX without copyright restrictions and published a book on SCILAB (which is a free software alternative to MATALAB). Industry projects, internships, seminars are made integral part of the syllabi to promote research interest among the students

**2.6.6.** Any other information regarding Teaching, Learning and Evaluation which the university would like to include.

The lessons from teaching learning and evaluation outcomes are:

- Used to help the students achieve progression in higher studies and to foster their inherent potentialities to meet the requirements in research institutions and employment market.
- Used to foster students' academic, personal and professional development through skill orientation.
- Used to give information to outreach programme of the central library.

The alumni association of various departments support learning through project assistance for PG programmes. They also arrange invited lectures. Departmental library provides assistance in online information search. The research and consultancy undertaken by the teachers help in strengthening class room teaching.

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# CRITERION III RESEARCH, CONSULTANCY AND EXTENSION

#### RESEARCH, CONSULTANY AND EXTENSION

#### 3.1. PROMOTION OF RESEARCH

**3.1.1** The University of Kerala has set up a three-tier system to oversee the conduct of research activities and ensure its quality and relevance. The topmost tier is the Research Council which is followed by the Research Committee and then the Department Doctoral Committees.

Research Council: The Research council was set up in 2013 under the chairmanship of the Vice Chancellor and with a member of the Syndicate as convenor. The members of the Research Council are as follows: (a) Director (Research); (b) Deans of various faculties; (c) Directors of various schools; and (d) Directors of various research institutes in Kerala such as CESS, JNTBGRI, STEC, C-DAC, SCTIMS, IISER, IIST, KCHR and CERD. The Research Council aims at laying out a roadmap for the research activities to be undertaken by the University and ensuring that these research activities are able to address the needs of the society. Two major recommendations of the research council are as follows:

- a. The Council has authorised the Directors/HoDs of various schools to communicate with outside research agencies to promote the research activities of the University. Based on these communications, the Council has asked concrete proposals to be submitted on the ways and means by which the University of Kerala can further enhance its research activities.
- b. In order to enhance the opportunities of the students of University of Kerala and to expand their understanding of the various frontier research activities undertaken, the Research Council has also suggested that the students should be encouraged to pursue internship programmemes in various Research agencies during the vacation

Research Committee: The Research Committee of the University of Kerala has been constituted as per UGC norms. Its primary responsibility is to ensure the conformity of the research proposals as per the UGC MRP guidelines. The Research Committee is chaired by the Vice Chancellor and has Director (Research) of University of Kerala as its convenor. The members of the Research Committee are as follows: (a) Director, Collegiate Development Council; (b) Dean, Faculty of Science; (c) Dean, Faculty of Applied Science; (d) Dean, Faculty of Social Science; (e) Dean, Faculty of Oriental Studies; and (f) Member, Syndicate & Chairman, Standing Committee for Research.

**Department Doctoral Committees:** The forty-two departments under the University of Kerala are approved research centres and each department has a doctoral committee chaired by the respective Head of the Department and faculty, who are research guides, are members. The functions of these committees are:

- (1) approve the synopsis of PhD students,
- (2) approve the syllabus for PhD course work,
- (3) periodic assessment of the doctoral work
- (4) conduct pre submission viva

## 3.1.2. Policy of the University with regard to developing research in affiliated colleges:

There are thirty-two affiliated colleges under the University of Kerala that has been recognized as research centres. The research programmemes under the University focus on social science, life sciences, physical sciences, applied sciences, languages and arts. The research activities include the research done by students who have joined for MPhil/PhD programmemes, MSc project work and research undertaken by postdoctoral fellows, technical or research faculty and visiting professors. As per UGC regulations, the University has introduced course work with examination, annual assessment, pre-submission seminar and publication requirements for quality improvement in PhD programmemes from 2009.

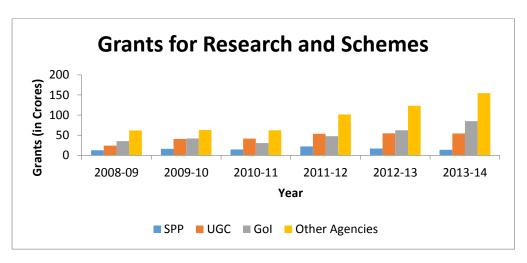
The University has a stated policy to encourage the department faculty to deliver lectures, and conduct workshops in order to facilitate research in affiliated colleges. The research scholars from affiliated colleges are permitted to use the library and laboratory facilities in the university departments.

Apart from this, the University has streamlined the processes involved in the conduct of doctoral research by setting up a single point securely hosted solution called **Research Portal**. The Portal is customized to seamlessly integrate, search and manage the PhD research activities of the University and affiliated colleges. The research portal streamlines the administrative processes involved in submitting the PhD application, issuing registration order, submission of monthly progress report, conduct of pre submission seminar, submission of synopsis, PhD submission, conduct of open defense and award of PhD.

## **3.1.3** Pro-active mechanisms of the University for implementation of research schemes:

The University of Kerala has taken various steps to ensure adequate financing of research projects undertaken by various departments.

**Seed money**: The University of Kerala facilitates its faculty to undertake innovative research programs and schemes by providing fund as seed money through various State Plan Programs, UGC assistance, grants from Government of India and other agencies.



It may also be noted that in 2013-14, the University has provided funding for 'translational research' to 4 departments of the University, namely, Computer Science, Opto-electronics, Aquatic Biology and Zoology. The aim of translational research is to encourage research aimed at converting basic scientific knowledge into practical applications so as to enhance human health and well-being.

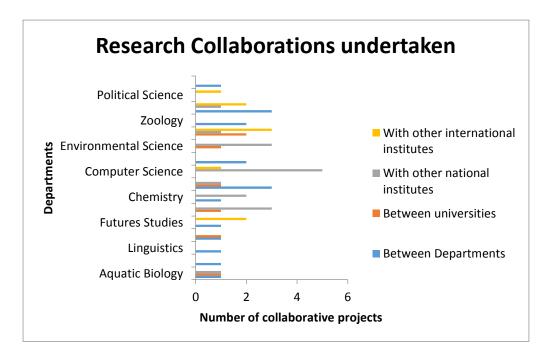
The University of Kerala has provisions for advancing funds for sanctioned projects subject to availability of funds.

**Simplification of procedures**: University has implemented the facility of etenders and the Principal Investigator of the project is permitted to make necessary purchases as per University regulations.

**Autonomy of PI**: The principal investigators are permitted to utilize 2/3rd of the overhead charges. The PI has to remit 1/3rd of the overhead charges to the Department Development Fund.

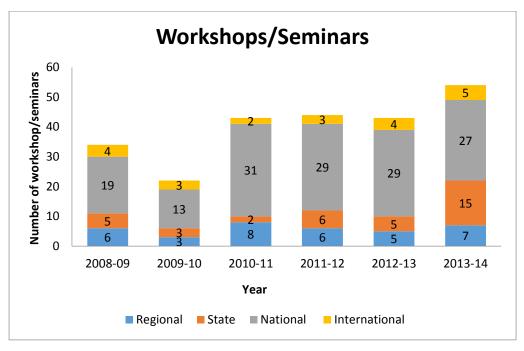
**Timely release of grant and its auditing**: The grants obtained from sanctioning agencies are released from the university within 45 days on the request of the Principle Investigator. The PI is responsible for auditing the funds by external auditor and submits the utilization certificate to the University for onward transmission to the funding agency.

**3.1.4 Inter-disciplinary research**: Interdisciplinary research is promoted by the University between the various departments of the university as well as between the University and other national and international institutes.



<sup>\*</sup> Note: These numbers are as on March 2014.

#### 3.1.5 Workshops/training programs and sensitization programs:



#### 3.1.6 Visit of eminent international researchers to University:

During the period 2008-2014, the University of Kerala had the privilege to host some prominent international scholars who visited the University and delivered lectures.

Eminent Nobel laureates visited Kerala University and delivered lectures through an innovative programmeme "Erudite" funded by Higher Education Council of Govt of Kerala. The Nobel laureates who visited the University under this scheme were Dr.Martin Chalfie, Nobel Laureate 2008 in Chemistry; Dr.Johann Diesenhofer, Nobel Laureate 1988 in Chemistry; and Prof.Herald Zur Hansen, Nobel Laureate 2008 in Physiology & Medicine.

Apart from these scholars, some of the eminent international scholars who visited the University under various schemes were as follows:

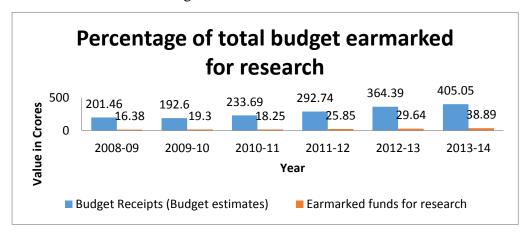
Sl. No	Scholar who visited University of Kerala
1.	Prof. Mahmood Mall, Oslo University, Norway.
2.	Prof. Nachimoothu Gopalswamy, NASA Goddard Space Flight Centre, USA
3.	Prof. Abraham Thomas, Dept of Earth Sciences, University of West Cape, S. Africa
4.	Prof.Ing Dietrich Schroder, Department of Geomatics, Stuttgart University, Germany
5.	Dr. Jacob Varkey, Professor, Humboldt State University, USA
6.	Dr.Chandra Verma, Bioinformatics Institute, Astar, Singapore
7.	Dr.Boris M.Schien, Department of Mathematical Sciences, University of Arkansas, USA
8.	Prof.Jagadesh J Vittal, Dept. of Chemistry, University of Singapore
9.	Dr. Ander Liljas, Professor, Lund University, Sweden

10.	Dr. Honry Mortyn Mulder Fragmus University Dettendem Notherlands
10.	Dr. Henry Martyn Mulder, Erasmus University, Rotterdam, Netherlands
12.	Dr.Ajoy Kar, Heriot Watt University, UK Dr.Heinz Kohler, Karlsruhe University, Germany
13.	
14.	Dr. Bovas Abraham, University of Waterloo, Canada
	Prof. George Carodina- University of California, USA
15.	Prof. John Meakin, University of Nebraska, USA
16.	Prof. Pat Heslop Harrison, University of Leicester, UK
17.	Prof. John Chappell, University of Kentucky USA
18.	Prof. Madan Thangavelu, University of Cambridge, UK
19.	Dr. Hugo Volkaerte, Centre for Agricultual Biotechnology, Kasetsart University, Thailand
20.	Dr. David Kideckel, Wenner Gren Foundation, USA
21.	Dr. Stephen Cohen, US Consulate, Chennai
22.	Dr. T.V. Paul, McGill University, Canada
23.	Dr. Eric Jepson, South Dakota University, USA
24.	Mr. Drew Hayden Taylor, Humourist and Playwright, University of Western Ontario, Canada.
25.	Prof. Russel Meade, Bard College, USA
26.	Dr. Trevor Petney, Zoology Institute, Dept. of Ecology and Parasitology, Karisruhe, Germany,
27.	Prof. Bella S. Galil, Israel Oceanographic & Limnological Research, Haifa, Israel
28.	Dr. Paul Clark, Natural History Museum, London
29.	Dr. S. Mithun, Research Scientist, Tamasek Polytechnique, Singapore
30.	Dr. Christudas Morais, Research Officer, School of Medicine, University of Queensland
31.	Dr. Andrew F. Johnson, Post-Doctoral Fellow, School of Ocean Sciences, Bangor University, UK
32.	Dr. K.C. Zacharia, Principal Demographer(Rtd.), World Bank, Washigton.D.C
33.	Dr. K.N.Harilal, CDS, Thiruvananthapuram
34.	V.B.Athreya, Professor and Head, Department of Economics, Bharathidasan University, Tiruchirappalli, INDIA
35.	Erul D'Souza, IIM, Ahammadabad
36.	M.H.Soorya Narayana, IGIRD, Mumbai
37.	Robert Palacio, Senior Pension Economist, World Bank
38.	Padmini Swaminathan, TISS, Mumbai
39.	Mrudul Eapen, CDS, Thiruvananthapuram
40.	Harsha Athirupani, Senior Economist, World Bank, Sreelanka, Washigton.D.C
41.	Ulza Patnaik, JNU, New Delhi
42.	Jabamalai Vinanchiarachi, Former Principal Adviser to the Director General, UNIDO
43.	Dr. M.A.Oommen, Retired Professor, Calicut University
44.	Dr. S. Iyyampillai, Professor, Bharathidasan University
45.	Jayathi Ghosh, JNU, New Delhi
46.	C.P.Chadrasekhar, JNU, New Delhi
	C.2. C. S. Maria Control of T. C. T. C. T. Dollin

47.	Thankom Arun, Lancashire University, England		
48.	Prof.Sandi Klavzar, University of Ljubljana and University of Maribor,Slovenia		
49.	Prof.Bostjan Breser, University of Maribor, Slovenia		
50.	Prof. AleksanderVesel, University of Maribor, Slovenia		
51.	Prof.Peter Stadler, University of Leipzing, Germany		
52.	Prof.IztokPeterin University of Maribor, Slovenia.		

#### 3.1.7 Total Budget earmarked for research

On an average, it is observed that out of the total budget, the funds that are earmarked for research ranges from 8 to 10%.



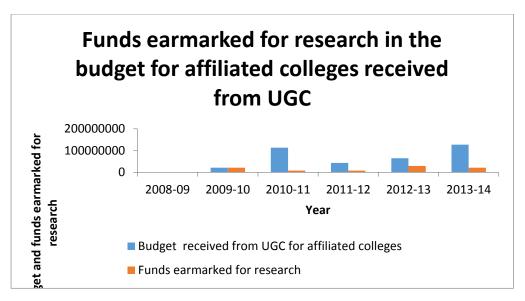
The utilization of the amount that is earmarked for research every year under various heads has been 100%. This is evident from the following table.

	Grants from State Government		Grants from UGC		Grants from Government of India		Grants from other agencies	
Year	Financial Allocation	Actual Utilization	Financial Allocation	Actual Utilization	Financial Allocation	Actual Utilization	Financial Allocation	Actual Utilization
2008-09	2.045	2.045	3.856	3.856	3.65	3.65	6.83	6.83
2009-10	2.568	2.568	5.36	5.36	4.21	4.21	7.17	7.17
2010-11	2.42	2.42	5.44	5.44	3.07	3.07	7.3	7.3
2011-12	3.23	3.23	6.6	6.6	4.78	4.78	11.22	11.22
2012-13	3.03	3.03	6.74	6.74	6.53	6.53	13.32	13.32
2013-14	2.81	2.81	10.49	10.49	8.87	8.87	16.7	16.7

*Note:* The values given here are budget estimates and is in Rs. Crores.

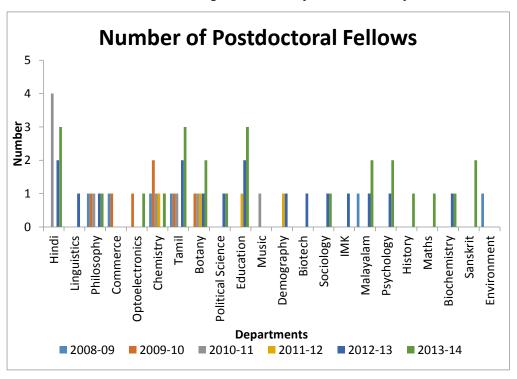
#### 3.1.8 Budget for affiliated colleges:

The College Development Council of University of Kerala assists affiliated colleges to procure grants and other assistance from UGC. The College Development Council undertakes the monitoring of the utilization of these grants. The funds received from UGC are aimed at infrastructure development as well as promoting research in affiliated colleges.



Note: The funds earmarked for research include the grants given for conducting seminars and workshops, undertaking major and minor projects and the UGC research awards.

#### 3.1.9 Post-doctoral fellowships awarded by the University



Note: In 2008-09, the PDF in Chemistry Department was KSCSTE funded. In 2012-13, the PDF in Linguistics Department was UGC funded and the PDF in Botany Department was DST funded. One of the PDF in Botany Department in 2013-14 was UGC funded. Both the PDFs in Political Science Department in 2012-13 and 2013-14 respectively was funded by ICSSR.

## 3.1.10 Faculty on leave for pursuing higher research in various national and international universities and institutes and monitoring of their output by University:

The provision for sabbatical leave was introduced by University of Kerala only in 2013-14. Prior to this, the university faculty was permitted to take duty leave/study leave to pursue higher research. The table below elaborates on the higher research pursued by faculty members of various departments.

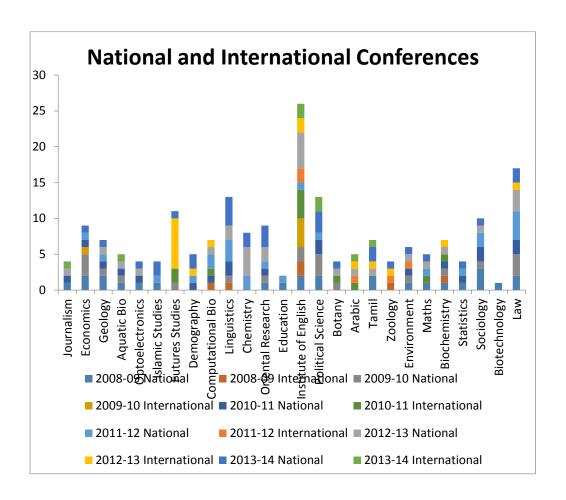
Year	Faculty and Department	University/ Institute visited	Scheme under which visit was made	Period and Output
2008-09	Dr. Ashalatha S Nair; Botany	University of Leicester, UK	Collaborati ve programme with IAEA	2 months; Publications and infrastructure development for new areas of research
	Dr.G.Raju; Commerce	Department of Commerce, University of Kerala	UGC-PDF	1 year; Publications
	Dr. Seenat; Mathematics	Department of MathematicsU niversity of Kerala	UGC-PDF	1 year; Publications
	Dr. Shaji Varkey; Political Science	Department of Political Science, University of Kerala	UGC-PDF	1 year; Publication of monograph
	Dr. Sony George	Babha Atomic Research Centre	Indian academy of Siences	Publication and widening the area of Research
2009-	Dr. Padma kumar; Aquatic Biology & Fisheries	Pacific Institute of Bio-organic Chemistry, Russian Academy of Sciences.	Bilateral collaborativ e programme me of DST	2 weeks; Widen the area of research pursued in the dept and Publication of collaborative research
	Dr. Padma kumar; Aquatic Biology & Fisheries	University of Aberdeen, UK	Commonwe alth Academic Fellowship	1 month; Publication
	Dr. Padma kumar; Aquatic Biology & Fisheries	South China Sea Institute of Oceanology, China	Indian National Science Academy Fellowship	2 weeks; Widen the area of research pursued in the dept and Publication of collaborative research

2010-	Dr. Sony	Department of	Erasmus	2 month, Widen the area
11	George	Chemical	Mundus	of Research pursued in
		Physics, Lund	Academic	the Home Department
		University	Mobility	
		SWEDEN	Programme	
			, European Union	
2011-	Dr.P.P.	Karlsruhe	DAAD	2 weeks; MoU signed
12	Mahadevan	University of	Fellowship	between University of
	Pillai; Opto	Applied		Kerala and Karlsruhe
	electronics	Science, Germany		University of Applied Science, Germany
		Germany		resulting in research
				collaborations
	Dr. Manoj	University of	Indo-	2 weeks; Widen the area
	Changat; Futures	Marybor, Slovenia and	Slovenia Joint	of research pursued in the dept and Publication of
	Studies	University of	Research	collaborative research
		Lubljana,	Project	
		Slovenia		
	Dr. Samuel	MG	PDF	1 year; Publication of
	Kuruvilla; Political	University, Kottayam,		monograph
	Science	India		
2012-	Dr. Asha J	Department of	ICSSR-PDF	1 year; Publication
13	V; Education	Education,		
		University of Kerala		
2013-	Dr.P.P.	Robert	UGC-	2 weeks; Publication
14	Mahadevan	Gordon	UKIERI	
	Pillai; Opto	University,	Programme	
	electronics	Aberdeen, UK; Herriot		
		Watt		
		University,		
		Edinborough,		
		UK; and Fraunhofer		
		Centre of		
		Applied		
		Photonics,		
	Du Mana:	Glasgow, UK	Inde	2 woolse International
	Dr. Manoj Changat;	University of Marybor,	Indo- Slovenia	2 weeks; International publications
	Future	Slovenia and	Joint	paoneurons
	Studies	University of	Research	
		Lubljana,	Project	
	Dr. R.	Slovenia Indian	UGC-PDF	1 years Dublication of
	Suresh;	Indian Institute of	UUC-FDF	1 year; Publication of monograph
	Political	Advanced		
	Science	Studies,		
		Shimla, India		

Dr.	CIRAD,	Bioversity	2 weeks; Enhanced the
Ashalatha S	Montpellier,	Inter	skills in the area of
Nair; Botany	France	national	bioinformatics and
			applied it in germplasm
			analysis; Initiated a new
			course on bioinformatics
			for post graduate
			students.

#### 3.1.11. International/National conferences:

During the period 2008-2014, the University of Kerala organized 117 national conferences and 28 international conferences. The year wise distribution of the conferences across various departments of University is depicted in the chart below:



#### 3.2. RESOURCE MOBILIZATION FOR RESEARCH

#### 3.2.1 Financial provision for supporting student research project:

The Higher Education Department of Government of Kerala introduced a scholarship scheme in 2009-2010 named "Aspire". The aim of this scheme is to enable post-graduate and M.Phil/PhD students for undertaking short-term internship or projects in institutions other than their parent departments. From its time of introduction to 2011-12, 223 students of University of Kerala has availed this scholarship. The details are presented below:

Year	Amount Sanctioned (in Rs. Lakhs)	Number of PG Students	Number of Mphil Students	Number of PhD Students
2009-10	8.48	68	15	21
2010-11	7.73	30	27	14
2011-12	5.52	18	18	12
Total	21.73	116	60	47

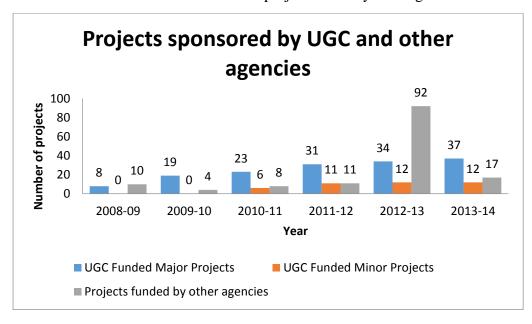
In the year 2012-13, the Government of Kerala had not sanctioned any amount for Aspire scholarship. However, in 2013-14, Rs. 15 lakhs has been released and is currently being processed.

#### **3.2.2.** Initiatives undertaken to encourage faculty to file patents:

Department of Law has established an intellectual property management cell which aims at providing awareness to faculty members of University of Kerala on legal aspects related to filing patents. As on March 2014, three patents has been filed by Dr. K.N. Rajasekharan of Department of Chemistry along with S. Sengupta of Rajiv Gandhi Centre for Biotechnology. The patent number is 8,158,806B2 2012.

#### **3.2.3.** Research Projects of Faculty:

As on March 2014, there were 187 projects in University sponsored by UGC out of which 142 were major projects and the remaining minor projects. 122 projects were funded by agencies such as DST/DBT/DAE/MoEF/KSCSTE etc. The distribution of these projects across years is given below:



The details of these projects across various faculty of the University are given in **Annexure 1**.

#### **3.2.4.** Projects sponsored by Industry/corporate houses:

In 2009-10, Department of Futures Studies had undertaken a project titled "Restructuring of Coir Industry in Kerala" which was funded by Kerala Coir Commission. The fund amounted to Rs. 8 lakhs.

## **3.2.5.** Departments recognized for their research activities by SAP/FIST/ SARD/ COSIST assistance:

Year	Name of the Department	Funding Agency	Grant (Rs.Lakhs)	Remarks
	Economics	UGC-SAP	20	
	Geology	UGC-SAP	40	
	Zoology	UGC-SAP	45.3	
2008-09	Political Science	UGC-SAP	27.05	
	Mathematics	UGC-SAP	18.75	
	Biochemistry	UGC-SAP	2.5	
	Botany	DST-FIST	19	
	Biochemistry	UGC-SAP	72	Second phase sanctioned
	Commerce	UGC-SAP	26.5	
2009-10	English	UGC-SAP	37.25	
	Zoology	DST-FIST	25	
	Aquatic Biology	CAS I	72.5	
2010-11	Statistics	DST-FIST	16.5	
2011-12	Nil	Nil	Nil	
2012-13	Statistics	DST-FIST	5.25	Second phase sanctioned
	Economics	UGC-SAP	60	Second phase sanctioned
2012 14	Geology	UGC-SAP	67.05	Second phase sanctioned
2013-14	Mathematics	UGC-SAP	46.5	Second phase sanctioned
	Aquatic Biology	CAS II	106	Second phase sanctioned

The three major outcomes of these recognitions has been upgraded laboratory facilities, enhanced research collaborations with reputed national and international institutions and works resulting in publications in internationally recognized journals.

## **3.2.6.** A. List details of Research Projects: The information is provided in Annexure 2.

#### **B. Inter-institutional collaboration projects:**

Year	Collaborating institution or organization	University Faculty
2008-09	International Atomic Energy	Dr. Ashalatha S Nair, Department of
	Agency, Austria	Botany
2009-10	Central Connecticut State	Dr. Shaji Varkey, Department of
	University, USA	Political Science
2010-11	Lund University, Sweden	Dr. Achuthsankar, Department of
		Computational Biology
	University of Lublijana and	Dr. Manoj Changat, Department of
	University of Maribor, Slovenia	Futures Studies

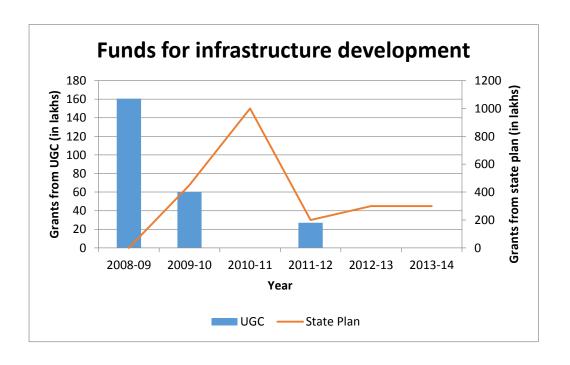
2011-12	Karlsruhe University, Germany	Dr. Mahadevan Pillai, Department of Optoelectronics
	University of Lublijana and University of Maribor, Slovenia	Dr. Manoj Changat, Department of Futures Studies
2012-13	University of Nebraska, USA	Dr. A.R. Rajan, Department of Mathematics
	Kadinamkulam Panchayat	Dr. Sobha.B.Nair, Asst. Professor, Department of Sociology
	University of Lublijana and University of Maribor,Slovenia	Dr. Manoj Changat, Department of Futures Studies

In 2012-13, the University of Kerala signed a MoU with Toyo University, Japan; and Henan University, China. In the same year, a programmeme named EMINTE (Erasmus Mundus- India To Europe) was sanctioned by University of Kerala to fund academic mobility for the students and faculty of University of Kerala to ten selected European Universities. Another project which was initiated in 2012-13 was MAKER (Michigan and Kerala Education Research) Project with Grand Valley State University, USA. Semester India Programmeme was initiated where the University of Kerala signed a MoU with International Institute for Scientific and Academic Collaboration. MoU was also signed between University of Kerala and Canterbury Church University, UK.

#### 3.3 RESEARCH FACILITIES.

## 3.3.1 Efforts made by the University to improve infrastructure requirements for facilitating research:

Apart from UGC-SAP and DST-FIST, the University procures funds from UGC as well as the state government based on projects submitted for improving infrastructure needed for facilitating University research.



The University of Kerala has also procured the following instruments during the period 2008-09 to 2013-14 to facilitate faculty and students to pursue high precision research.

- **a.** Pulsed laser deposition (PLD) units (2 units with one with turbo molecular pump and one with diffusion pump), equipped with Q-switched high power Nd: YAG laser with second and third harmonics
- **b.** RF Magnetron sputtering unit
- c. Colloid synthesis lab
- **d.** Thermal coating unit.
- e. High temperature programmemable furnace
- **f.** High temperature programmemable (tubular) furnace
- **g.** Combined Sputter Coater and a carbon evaporator
- **h.** Double distillation unit-2 nos.
- i. Muffle furnace
- **j.** Field Emission Scanning Electron Microscope (Nova NanoSEM 450) with and accessories from M/s.FEI COMPANY OF USA
- **k.** Energy Dispersive X- ray Spectrometer QUANTAX 200 with XFlash®6Micro from M/s .Bruker Nano GmbH
- **l.** Micro Raman Spectrometer (Lab RAM HR UV-Visible NIR) with two lasers from M/s. Horiba Jobin Yuon S.A.S.,France
- **m.** Spectroscopic Ellipsometer with accessories M/s. Horiba Jobin Yuon S.A.S.,France
- **n.** JASCO UV Vis Spectrophotometer (Model V550, JASCO make)
- **o.** Photoluminescence spectrometer (Flurolog 3) from M/s. Horiba Jobin Yvon, France
- **p.** Four Probe Electrical measurements setup equipped with source meter (Keithly)
- **q.** Triax Monochrometer NOTR 320MST3X Triax PMT and accessories from M/s. Laser Spectra Services, Bangalore
- **r.** Fluorescence Spectra Photometer (Schimatsu)
- s. A Biophotonics lab equipped with Electric Cell Impedence analyser(ECIS Zθ) from M/s. Applie Biophysics, USA
- t. A Fibre Laser Fabrication laboratory equipped with 25W high power laser diode (Dilas, France), Scanning slit beam profiler(Spiricon), Acousto-optics switch(Gooch & Housgo,UK), large mode area active fibers (Nufern Inc. USA), Photonic Crystal Fiber (NKT Photonics, USA) Thermotek chiller unit (Germany), 100 MGHz digital storage oscilloscope, Vibration isolation stage, Power meters (Coherent, USA),

- high quality optical elements(lenses, diachronic mirrors, beam splittors) etc.
- u. A Fibre Optics Laboratory equipped with Optical spectrum analyser, Electronics fusion splicer, Photo diode, Optical fibre communication trainer kit (light runner), Optical fibre communication trainer kit (Bench mark), Erbium doped fibre amplifier kit, Optical fibre communication trainer kit (Falcon), Photo diodes, Laser diodes, He-Ne Lasers-5 nos., single mode and multi mode fibres-20 km, OTDR etc.
- v. Holographic & speckle interferometry setup: 25 mW He- Ne Laser, He- Cd Laser with duel wave length, CCD, frame grabber, Image grabbing software, vibration isolation stage, optical elements, high quality optical elements(lenses, diachronic mirrors, beam splitters)
- **w.** Image processing & photonic design laboratory equipped with OPTISYSTEM , OPTIGRATIG & OPTIFIBER-Photonic design software from M/s. Optiwave Inc. USA
- x. HPLC system Stereozoom microscope

The University has also initiated work on a Centre for Advanced Instrumental Analysis which aims at developing a common instrumentation facility for the University faculty and students.

Based on the publications produced, the University of Kerala received an hindex score of 32 and was therefore selected for receipt of grants worth Rs. 9 crores under DST-PURSE programmeme in 2010-11. Instruments like ICPMS (Inductively Coupled Plasma Mass Spectrometry), Atomic Force Microscope and X-ray Defractometer have been procured under this programmeme. A campus computation facility along with other infrastructure facilities has been developed under this scheme. Several SRFs and PDFs is also being provided.

To meet the needs of the researchers in emerging disciplines, innovative programmemes has been implemented such as MSc Computation Biology, PG Diploma in Theoretical Arts, MPhil in Learning Disability, PG Diploma in Performing and Visual Arts, PG Diploma in Geo-information Science and Technology and PG Diploma in Knowledge Management.

#### **3.3.2.** Information Resource Centre in the University:

In order to tap the benefits of technology in disseminating information to the researchers on various academic as well as administrative procedures of the University of Kerala, a Research Portal has been set up with the following web address: <a href="http://research.keralauniversity.ac.in/">http://research.keralauniversity.ac.in/</a>. The system is developed in a client server architecture using open source technologies and is deployed in an intranet environment. The Computer Centre provides necessary support in connection with the online verification process of documents. The system is now extended to online transcription delivery facility. (www.ku.directverify.in)

#### **3.3.3** University Science Instrumentation Centre:

The University has a University Science Instrumentation centre (USIC). The facilities are available to the research scholars. In 2013-14, Rs.73,86,200/- was allotted under Non-plan for the maintenance and development of USIC.

### 3.3.4 Residential facility with computer and internet facility for research scholars:

University has 24x7 internet facilities on the campus. The University of Kerala also launched a dedicated Central Computing Facility (CCF), under the DST Purse Programmeme, which enables faculty and students to use computational methods in their research. The Linux cluster at CCF is dedicated for the researchers to enable the next generation of computational scientists to make full use of this important technology. For easy access and better utilization of these facilities, a series of training programmemes and workshops are carried out on various aspects of scientific computing. A detailed set of information of the Linux cluster used in CCF is provided in **Annexure 3**. The list of softwares installed in CCF for the utilization of researchers and faculties are as follows:

#### Chemistry related softwares

- Turbomole 6.4 for quantum chemical application
- NWChem 6.0 ab initio computational chemistry software
- Tinker 6.1 molecular modeling package for molecular mechanics and dynamics

#### Bio-informatics applications

- HMMER
- NCBI BLAST
- MpiBLAST
- Biopython
- ClustalW
- MrBayes
- T Coffee
- Emboss
- Phylip
- Fasta
- Glimmer
- perl-bioperl

#### Parallel computing MPI libraries

- OpenMPI
- MPICH

#### Compilers

- C
- C++
- FORTRAN
- Per
- Python 2.7 and ipython 0.10 interactive shell for python programmeming

#### **Statistical Analysis**

- IBM SPSS 20
- pspp 0.6.2

#### Remote Access and Virtual Desktop

- FreeNx for ssh based remote login
- OpenSSH

#### Statistical computing and Graphics

- R 2.15.2 for Statistical computing and Graphics
- Gnuplot 4.2.6 for 2D and 3D plots
- python–matplotlib 0.99 2D plotting library

#### Mathematical and Numerical Computation

- Blas 3.2 ,Atlas 3.8, GotoBlas2 linear algebra library
- Scilab 5.4.0 for numerical computation
- scipy 0.7.2 and numpy 1.4.1 mathematical and scientific computing library

#### Job Queueing system

- SGE 6.2 Sun Grid Engine (Open Grid Scheduler)
- Condor High Throughput Computing environment

#### Cluster monitoring system

Ganglia

#### Web server

Apache

## 3.3.5 Specialized Research Centres/Workstation On Campus or Off Campus to Address Special Challenges:

There are around 35 research centres that have been established in University of Kerala. Some of the major ones are:

Sl.No	Name of the Centre
1	Centre for Cost of Cultivation
2	Centre for Translation Research
3	International Centre for Kerala Studies
4	Astronomical Observatory
5	Centre for Geo-information Science and Technology
6	Centre for Marine Diversity
7	Sree Narayana Centre for Study of Social Changes
8	Centre for Vedanta Studies
9	Christian Study Centre for Cultural and Social Changes
10	Centre for Cultural Studies
11	Centre for Gandhian Studies
12	Centre for Quantitative Analysis
13	Sree Chitra Tirunal Centre for Historical Studies and Social
	Changes
14	Centre for Convergence Media Studies
15	Centre for Rural Studies
16	Centre for Performing Visual Arts
17	Centre for Nanoscience and Nanotechnology
18	Centre for English Language Teaching
19	Raja Ravi Varma Centre for Excellence in Visual Arts
20	Centre for Translation Studies

21	Centre for Arthropod Bioresources and Biotechnology
22	Population Research Centre
23	Centre for Policy Studies
24	Centre for Information Literacy Studies
25	Centre for Human Resource Development
26	Centre for Women's Studies
27	Centre for Australian Studies
28	UGC Area Study Centre for Canadian Studies

It may also be noted that Department of Aquatic Biology & Fisheries has an off campus centre at Akkulam and proposals have been submitted to convert this as a Marine Museum and Aquarium Research Centre.

A workstation for research for microdata on census has been set up through a MoU between University of Kerala and Directorate of Census Operations Kerala. This is the third Centre in India supported by RGI.

The University of Kerala has also set up two Inter University Centres namely Inter University Centre for Genomics & Gene Technology and Inter University Centre of Geospatial Science & Technology.

#### 3.4 RESEARCH PUBLICATION & AWARDS

#### **3.4.1** University Research Journals:

As of now there are 14 journals published by various Departments of the University of Kerala. Their details are furnished below:

Name of the Journal and Department involved Journal of Aquatic Biology and Fisheries; Department of Aquatic Biology and Fisheries	Periodicity of publication Bi-annual	Peer reviewed journal	Whether approved by the University Yes	Whether listed in any International database Yes; ISSN 2321–340X	Composition of editorial Board  Editor-in-Chief Dr. A. Biju Kumar Editors Dr. Tresa Radhakrishnan Dr.K.Padmakumar Dr. Pramod
Journal of Polity and society; Department of Political Science	Peer reviewed bi-annual	Seeks to provide a platform for disseminating original ideas and research findings among scholars, administrators and general public in the field of social sciences with a special focus on Indian and Kerala politics. The journal publishes original research articles and book reviews in the above areas including Political Theory; IR, Comparative Politics, Public Administration and Public Policy.	Yes		Kiran, R.B.  Head of Dept. is the ex. Officio editor of the Journal. All faculty members are on the Editorial Board. Editorial Advisory Board consists of the following eminent scholars from all over the world:  Dr. Neera Chandhoke (Delhi University);  Dr. G. Haragopal (University of Hyderabad)  Dr. Ujjwal Singh (Delhi University)  Dr.A.K.Ramakrishna n (JNU, New Delhi)  Dr. T. V. Paul (McGill University, Canada) former Ambassador  T. P. Sreenivasan

	I			I	(TZ   1   0   1   2   1
					(Kerala State Higher Education Council); Dr. Mussafar Assadi (University of Mysore); Dr. Ramu Manivannan (University of Madras); Dr. K. M. Seethi (Mahatma Gandhi University); Dr. Paul Brown (UNSW Sydney, Australia); Dr. Elizabeth C. Hanson (University of Connecticut, USA); Dr. Rajen Harshe (South Asian University, New Delhi); Dr. Vintila Mihailescu (SNSPA, Bucharest, Romania); Dr. Jeevan Kumar (Bangalore University); Dr. David Kideckel (Central Connecticut State University); Dr. Jakub Zajaczkowski (University of Warsaw)
Shodh Darpan; Department of Hindi	Annual	Reviewed articles published	Yes	ISBN 2574 2347-8152	Head of the Department as chief Editor and one senior most faculty member as editor
Heritage: Journal of Multi disciplinary Studies in Archaeology; Department of Archaeology	Annual	Any original and high quality research work on any aspect of Archaeology from any part of the world will be peerreviewed and then accepted for publication. No page limit	Yes	Only one volume published	Three Editors (25 members in Editorial Committee)
Communication and Media Studies; Department of Journalism and Communication	Quarterly		Yes	Yes	Members of Editorial Board are well- known media scholars/ academicians.
Janasamkhya; Department of Demography	Bi-annual	Peer reviewed research articles in the field of population and Demography. Approval Committee takes care of quality control.	Yes	Popline	Editor: Dr. Mohana chandran Nair Asst. Editor: Dr.Anil Chandran S. Advisory board composed of 6 eminent Demographers from various Universities in India, USA, Botswana
Studies in Education; Department of Education	Yearly	Peer reviewed	Yes	No	
Samyukta: A Journal of Women's Studies	Bi-annual		Yes		G.S. Jayasree (Editor).

The New Frontier	Annual	Edited by the Faculty of the Department	Yes, by the PG Board	No	The Members of the Faculty with the Head of the Department as the Chief Editor
Management Innovator; Institute of Management in Kerala	Bi-annual	Peer reviewed	Yes	Yes	Academics and administrator
Kerala University Journal of Legal Studies; Department of Law	Half yearly	Publish articles in the discipline of law having high research value. Length of the article may be between 25 to 35 pages and articles are selected on the basis of blind review by experts	Yes	Yes	Editor is Head of the Dept. Associate editors are two senior faculty members. Panel of referees consisting of senior professors for selecting articles through blind review
Journal of Information Science and Technology (JIST);Depart ment of Library and Information Sciences	Half yearly	Peer-reviewed	Yes	No.	National Level Editorial Board
Journal of Manuscript studies (A bilingual journal -Sanskrit and Malayalam); Department of Manuscript	Yearly	Priority given to unpublished works from manuscripts and the articles related to them	Yes	No	Editor – HOD Joint Editors - Other faculty members
Pracheena kairali; Department of Manuscript	Yearly	Priority given to unpublished works from manuscripts and the articles related to them	Yes	No	Editor – HOD Joint Ediitors - Other faculty members
Commerce nand Business Research. Department of Commerce	Bi-annual	Peer Review	Yes	Yes	Dr. C. Ganesh

Department of Botany has applied for approval for a bi-annual department journal titled "Abrahamia" aimed at promoting basic and applied research in the field of Plant Science.

#### 3.4.2 Publication of the faculty

Year	Articles in National Journals with ISSN	Articles in international Journals with ISSN	impact factor (range/ average)	Chapter in books	Books edited	Books with ISBN with details of publishers	Number Listed in International data base	Citation index	Mono graphs
Depart	tment of A	quatic Biolog	gy & Fish	eries					
2008	7	2	0.45	6	3	2	6	1.2	-
2009	6	=	-	-	-	-	1	-	-
2010	10	4	1.2	6	2	1	9	2.2	-

2011	11	9	1.4	_		1	8	2	
2012	4	8	1.6		2	1	11	2.5	-
				-					-
2013	13	7	1.65	8	5	- 1 /:	14	3	-
2014	-	-	-	1	-	1 (in press)	-	-	-
Depart	ment of A	rchaeology							
2008	4	-	-	-	-	-	-	-	-
2009	2	4	-	-	-	=	-	-	-
2010	-	-	-	-	ı	-	-	-	-
2011	1	1	-	1	-	-	-	-	-
2012	2	-	-	-	-	-	-	-	-
2013	2	-	-	1	-	-	-	-	-
2014	2	4	-	3	-	-	-	-	-
Depart	ment of B	iochemistry							
2008	4	14	-	-	-	-	-	-	-
2009	3	15	-	-	-	-	-	-	-
2010	2	25	-	-	-	-	-	-	-
2011	-	21	-	-	-	-	-	-	-
2012	4	31	-	-	-	-	-	-	-
2013	2	42	-	-	-	-	-	-	-
2014	-	12	-	-	-	-	-	-	-
Depart	ment of B	iotechnology							
2008	-	-	-	-	-	3; Lakshmi Publishers New	-	-	-
						Delhi			
2009	-	2	-	-	-		-	-	-
2009	-	2	-	-	-	Delhi 2; Lakshmi Publishers New	-	-	-
	-					Delhi 2; Lakshmi Publishers New		-	
2010		4	-	-	-	Delhi 2; Lakshmi Publishers New Delhi -	-		-
2010 2011	-	4	-	-	-	Delhi 2; Lakshmi Publishers New Delhi -	-	-	-
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2010 2011 2012 2013 Depart 2008 2009	- 1 1 ment of B 3	4 1 6 - otany -	- - - -	- - - - 2	- - - -	Delhi 2; Lakshmi Publishers New Delhi	- - - - -		
2010 2011 2012 2013 Depart 2008 2009 2010	- 1 1 ment of B 3 8	4 1 6 - otany - 1 7	- - - - - 0.6	- - - - 2	- - - -	Delhi 2; Lakshmi Publishers New Delhi	- - - -	- - - -	- - - -
2010 2011 2012 2013 Depart 2008 2009 2010 2011	- 1 1 ment of B 3 8 5	4 1 6 - otany - 1 7 8	- - - - 0.6 1.38	- - - - 2 - -	- - - - - -	Delhi 2; Lakshmi Publishers New Delhi	- - - - - -	- - - - -	- - - - -
2010 2011 2012 2013 Depart 2008 2009 2010 2011 2012 2013	- 1 1 ment of B 3 8 5 9	4 1 6 - otany - 1 7 8 7	- - - - - 0.6 1.38 0.78	- - - - 2 - - -	- - - - -	Delhi 2; Lakshmi Publishers New Delhi	- - - - - -	- - - - - -	- - - - - -
2010 2011 2012 2013 Depart 2008 2009 2010 2011 2012 2013	- 1 1 ment of B 3 8 5 9 11	4 1 6 - otany - 1 7 8 7	- - - - - 0.6 1.38 0.78	- - - - 2 - - -	- - - - -	Delhi 2; Lakshmi Publishers New Delhi	- - - - - -	- - - - - -	- - - - - -

2011	2010	5	30	1-5	_	_	_	_	_	
2012							_			<del></del>
Department of Communication and Journalism   1		т					_			
Department of Communication and Journalism		1								
2008			<u> </u>	<u> </u>		-	=	-	-	-
2009			T T	ı		1				
2010										
2011   23   9   -	-						-			-
2012   27							=		-	-
Department of Computational Biology										-
Department of Computational Biology							-	-	-	-
2008			<u> </u>	<u> </u>	4	2	-	-	-	_
2009   -     3   -     -     -     -     -     -     -     -       -       -				Biology		I			I	1
2010   2   2   2   -   -   -   -   -   -   -		-		-	1	-	-	-	-	-
2011   3				-	-	-	-	-	-	-
2012   3				-	-	-	-	-	-	-
Department of Computer Science				-		-	-	-	-	-
Department of Computer Science   2008   -   1   0 to   1.767   3   -   -   49   citations   -	2012	3	3	-	5	-	-	-	-	-
2008	2013	3	2	-	-	-	-	-	-	-
2008   -     2	Depart	ment of C	Computer Scie	nce						
2010   -     2	2008	-	1		3	-	-	ı		-
2010	2009	-	2		1	-	-	-		
2011	2010	-	5		3	-	-	-		-
2012	2011	-	7		15	-	-	-		-
Department of Demography	2012	-	9		6	-	-	-		-
2008         7         0         -         2         0         -	2013	-	5		5	-	-	-		
2009       6       0       -       3       0       -	Depart	ment of D	emography							
2010       8       0       -       3       0       -	2008	7	0	-	2	0	-	-	-	-
2011     6     1     -     3     0     -     -     -     -       2012     7     2     -     2     0     -     -     -     -       2013     6     1     -     3     0     1     -     -     -       Department of Economics       2008     1     -     -     -     -     -     -     -     -       2009     2     -     -     -     -     -     -     -     -       2010     4     -     -     2     2     -     -     1       2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -     -	2009	6	0	-	3	0	-	-	-	-
2012       7       2       -       2       0       -       -       -       -         2013       6       1       -       3       0       1       -       -       -         Department of Economics         2008       1       -       -       -       -       -       -       -       -         2009       2       -	2010	8	0	-	3	0	-	-	-	-
2013     6     1     -     3     0     1     -     -     -       Department of Economics       2008     1     -     -     -     -     -     -     -       2009     2     -     -     -     -     -     -     -       2010     4     -     -     2     2     -     -     1       2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -     -	2011	6	1	-	3	0	-	-	-	-
Department of Economics       2008     1     -     -     -     -     -     -     -       2009     2     -     -     -     -     -     -     -       2010     4     -     -     2     2     -     -     1       2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -	2012	7	2	-	2	0	-	-	-	-
2008     1     -     -     -     -     -     -     -       2009     2     -     -     -     -     -     -     -     -       2010     4     -     -     2     2     -     -     1       2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -	2013	6	1	-	3	0	1	-	-	-
2008     1     -     -     -     -     -     -     -       2009     2     -     -     -     -     -     -     -     -       2010     4     -     -     2     2     -     -     1       2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -	Depart	ment of E	conomics	'						
2009     2     -     -     -     -     -     -     -       2010     4     -     -     2     2     -     -     1       2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -				-	-	-	-	-	-	-
2010     4     -     -     2     2     -     -     1       2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -		2	-	-		-	-	-	-	_
2011     2     -     -     6     1     1     -     -     -       2012     2     -     -     -     -     -     -     -		4	-	-	2		2	-	-	1
2012 2			-	-		1		-	-	
										_
	2013	6	-	-	-	2	-	-	-	_

2014	3	-	-	2		-	-	-	-
Depart	tment of E	nvironmental	Sciences					<u> </u>	l.
2008	7	1	1.367	-	-	-	-	2	-
2009	8	2	1.207	2	-	-	-	2	-
2010	7	8	8.327	-		Bio-Tech Books, New Delhi	-	11	1
2011	13	6	6.237	-	1	Discovery Publishin g house Pvt. Ltd., New Delhi.	1	4	-
2012	8	3	1.47	1	ı	-	-	11	-
2013	10	7	4.704	1	1	-	1	1	-
Depart	tment of F	uture Studies							
2008	-	5	1.5	3	1	-	-	25 citations	-
2009	-	6	1.5	-	-	-	-	38 citations	-
2010	-	8	1.5	-	-	-	-	36 citations	
2011	1	3	1.5	-	-	-	-	8 citations	-
2012	2	7	1.5	-	-	-	-	20 citations	
2013	-	6	2	-	-	-	-	1 citations	-
Depart	tment of G	eology							
2008	3	1	1-2	-	-	-	-	-	-
2009	4	4	1-2	-	-	-	-	-	-
2010	2	0	1-2	-	-	-	-	-	-
2011	5	7	1-2	-	-	=	-	-	-
2012	3	7	1-2	-	-	-	-	-	-
2013	1	18	1-5	-	-	-	-	-	-
Depart	tment of H	lindi							Ī
2011	-	-	-	-	-	1; Vijyapan Parakh Aur Pahchchan, Abhay Prakasan, Kanpur	-	-	-
2012	-	-	-	2	-	-	-	-	-
2014	1	-	-	-	-	-	-	-	-
Institu	te of Engli	ish							
2008	5	-	-	1	-	-	-	-	-
2009	5	-	-	1	-	-	-	-	-
2010	3	1	-	1	-	-	-	-	-
2011	4	-	-	5	-	-	-	-	-
2012	2	-	-	4	-	2	-	-	1
2013	1	2	-	-	-	-	-	-	-
2014	-	-	-	1	-	1	-	-	-

Institu	te of Management in Kerala									
2008	19	5	_	_	_	1	_	_	_	
2009	20	6	_	_	_	1	_	_	_	
2010	25	5	_	_	_	2	_	_	_	
2011	30	8	_	_	_	4	_	_	_	
2012	50	12	-	_	_	3	_	_	_	
		lamic History								
2009	1	-	_	_	_	_	_	_	_	
2010	2	-	_	2	_	-	_	_	_	
2011	2	_	_	-	_	-	_	_	_	
2013	2	_	_	-	_	_	_	_	_	
	ment of L	aw		<u> </u>						
2011	3	-	_	-	_	_	_	_	_	
2012	2	_	_	-	_	-	_	_	_	
		Ianuscript								
Dopart	THORE OF IV	- Interest of the second				1; ORI &				
2008	4	-	-	-	7	Mss. Library	-	-	-	
2009	2	-	-	-	4	1; ORI & Mss. Library	-	-	-	
2010	8	-	-	-	2	1; ORI & Mss. Library	-	-	-	
2011	7	-	-	-	1	1; ORI & Mss. Library	-	-	-	
2012	6	-	-	-	16	1; ORI & Mss. Library	-	-	-	
2013	4	-	-	-	1	1; ORI & Mss. Library	-	-	-	
Depart	ment of N	<b>I</b> athematics		<u>'</u>	l e	, ,				
2008	6	1	-	-	-	-	-	-	-	
2009	11	2	-	-	-	-	-	-	-	
2010	12	6	-	-	-	1 PH I	-	-	-	
2011	11	1	-	-	-	-	-	-	-	
2012	18	5	-	-	-	-	-	-	-	
2013	2	1	-	-	-	-	-	-	_	
Depart	ment of C	ptoelectronic	S							
2008	-	10 7 2	1.57 1.49 0.88	-	5	3	-	159 184	-	
2009	-	15 11	2.02 1.55	-	-	-	13 1	149 231	-	
2010	-	11 5	1.77 1.52	-	-	-	4 3	147 59	-	
2011	-	6	1.7	-	-	-	3 4	22 41	-	

		6	2.03						
2012	-	4 1 1 1	2.3 2.45 2.212 2.39	-	-	-	6 5	8 3	-
2013	-	12 4 2	2.4 1.5 0.7	-	-	-	5	12 18	-
Depart	tment of P	hysics							
2008	1	16	1-2	-	-	-	-	-	-
2009	3	3	1-2	-	-	-	-	-	-
2010	4* Papers in Edited Books	-		-	-	-	-	-	-
2011	-	4	1-2	-	-	-	-	-	-
2012	1		<1	-	-	-	-	-	-
2013	1	6	1-2	-	-	-	-	-	-
Depart	tment of P	olitical Science	ce						
2008	7	3	-	2	1		-	-	1
2009	3	3	-	7	1	1; Icon Publishers, New Delhi 1; Madhav Books, Haryana	-	-	-
2010	8	3	-	4	3		-	-	-
2011	15	4	-	9	1	1; RS Serials, New Delhi	-	-	1
2012	9	1	ı	6	-	1 – IB Tauris, London 1 –Serials, New Delhi	-	-	2
2013	7	-	-	6	1	1-New Century, New Delhi 1 – Vij Books India	-	-	-
Depart	tment of P	sychology							
2008	8	-	-	-	-	-	-	-	-
2009	9	1	-	-	-	-	-	-	-
2010	8	1	-	-	-	-	-	-	-
2011	5	2	-	-	-	-	-	-	-
2012	4	2	-	-	-	-	-	-	-
2013	-	4	-	-	-	-	-	-	-
Depart	tment of S	ociology			1		ı	ı	
2008	-	-	-	-	-	-	-	-	-

2010		_				1				
2010	2009	2	2	-	-	-	-	-	-	-
2011   2	2010	1	1	1	1	(Lam bert Acade mic Publis hers, Germ	(RGNIYD Publication	-	-	-
Department of Statistics	2011	2	1	-	1		(Routledge	-	-	-
Department of Statistics	2012	1	1	1	-	-	-	-	ı	-
2008	2013	2	2		1		Press, New	-	ı	-
2009   2	Depart	tment of S	tatistics							
2010	2008		12	0.5	-	1	-	-	-	-
2011   7	2009	2	5	0.4	-	-	-	-	-	-
2012   13	2010	9	5	0.5	-	-	-	-	-	-
2012   13	2011	7	10	0.6	-	-	-	-	-	-
Department of Tamil   2008   5   2   -   -   1   1   1   -   -   -     -	2012	13	9	0.4	-	1	Statistics Universit y of	93- 5104-	-	-
2008   5	2013	21	28	0.8	-	-	-	-	-	-
2009   3	Depart	tment of T	amil							
2010   2	2008	5	2	-	-	1	1	-	-	-
2011         3         1         -	2009	3	1	-	-	-	2	-	-	-
2012       7       3       -       -       -       5       -       -       -         2013       6       3       -       -       -       1       -       -       -         Department of Zoology         2008       1       2       1.2       1       -	2010	2	1	-	-	-	1	-	-	-
2013   6   3   -   -   -   1   -   -   -     -	2011	3	1	-	-	-		-	-	-
Department of Zoology	2012	7	3	-	-	-	5	-	-	-
2008       1 6 4 1.2 1	2013	6	3	-	-	-	1	-	-	-
2008     6     4     1.2     1     - <td< td=""><td>Depart</td><td>tment of Z</td><td>oology</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Depart	tment of Z	oology							
2009   5	2008			1.2	1	-	-	-	-	-
2010	2009				-	-	-	2	-	-
2011         6         3         1         -	2010	7			-	-	-	4	-	-
2012     6     4     1.2     -     -     -     -     -     -       2013     9     3     1.0     -     -     -     -     -     -       Department of Commerce       2008     18     Nil     Nil     3     1     1     -     -     -       2009     18     1     -     2     1     -     -     -     -	2011	6			-	-	-	1	-	-
2013     9     3     1.0     -     -     -     -     -     -       Department of Commerce       2008     18     Nil     Nil     3     1     1     -     -     -       2009     18     1     -     2     1     -     -     -     -	2012	6			-	-	-	4	-	-
Department of Commerce           2008         18         Nil         Nil         3         1         1         -         -         -           2009         18         1         -         2         1         -         -         -         -	2013	9	3	1.0	-	-	-	-	-	-
2008         18         Nil         Nil         3         1         1         -         -         -           2009         18         1         -         2         1         -         -         -         -		tment of C	ommerce					'		
				Nil	3	1	1	-	-	-
2010 17 1 - 4 1	-	18		-	2	1	-	-	-	-
	2010	17	1	-	4	1	-	-	-	-

2011	15	1	-	-		Ī	-	-	-
2012	13	1	-	1	1	-	-	-	-
2013	13	1	-	-	1	-	-	-	-

#### **3.4.3.** Faculty in Editorial Board:

Name of Faculty	Name of the Journal	National/ International	Editorial Board (No)	Screeni ng Board (No)
Department of Aquatic Biology and Fisheries				
Dr. Tresa Radhakrishnan	Journal of Aquatic Biology and Fisheries (editor)	National	1	
Dr. A. Biju Kumar	Journal of Aquatic     Biology and Fisheries     (Chief editor)	National	4	5
	International Journal of     Pure and Applied     Zoology(editor)	International		
	3. Journal of Threatened Taxa (Editorial Board Member)	National		
	4. Journal of Traditional and Folk Practices (Editorial Board Member)	National		
	5. Journal of Geo-Marine Sciences (Reviewer)	National		
	6. Marine Biodiversity Records (Reviewer)	International		
	7. Journal of Experimental Marine Biology and Ecology (Reviewer)	International		
	8. Journal of Marine Biological Association of India	National		
	9. Indian Journal of Fisheries (Reviewer)	National		
Dr. K. Padmakumar	Journal of Aquatic     Biology and Fisheries     (editor)     Seaweed Research and	National	1	
	Utilization (Editorial Board Member)			
Dr. Pramod Kiran, R.B	Journal of Aquatic Biology and Fisheries (editor)	National	1	
Department of Archaeology				
Dr.Ajit Klumar	Heritage: Journal of Multidisciplinary Studies in Archaeology	International	Editor	-
Dr. Rajesh S.V.	Heritage: Journal of Multidisciplinary Studies in Archaeology	International	Editor	-

Mr.Abhayan G.S.	Heritage: Journal of Multidisciplinary Studies in Archaeology	International	Editor	-
Department of Bota	ny			
Prof. Ashalatha S Nair.	1. Annals of Botany (Reviewer)	International (oxford)		
	2. BMC Complementary and Alternative Medicine	International (Spriger)		
Dr.P.M.Radhamany	International journal of Plant Reproductive biology	National	1	
Dr. E.A. Siril	Plant Biotechnology     Reports	International (Springer)		1
	2. Journal of nature and Life Science	National	1	
Department of Biote	echnology			
Dr. A.J. Nair	International Journal of     Recycling of Organic     Waste in Agriculture	International		Revie wer
	Journal of Scientific and Industrial Research	National		Revie wer
	3. Indian Journal of Experimental Biology	National		Revie wer
	4. Journal of Nature and Life Sciences	National	Editoria 1 Board	
Department of Cher	mistry			
Dr T.S Anirudhan	Journal of Current     Sciences	National	Editor	
	2. Journal of Environmental Pollution	National	Associa te Editor	
Dr K Mohanan	Journal of Indian Chemical Society	National	Associa te Editor	
Dr SMA Shibly	Surface Coating and Technology (Elsevier).	International	Editoria 1 Board Member	
Department of Com	munication and Journalism	,	•	
Dr.Subash Kuttan	CJR (Communication and Journalism Research)	International	Editoria 1 Board	
Dr.Harikumar	Gandhi Media Studies	National	Editoria 1 Board	
Department of Com	putational Biology			
Dr.Achuthsankar S. Nair	1. IJCB	International	Chief Editor	
	2. CSI communications	National	Editor	
	3. IEEE transactions	International		Revie wer

	4. IEEE potentials	International		Revie wer
	5. Systems and synthetic Biology	International		Revie wer
Department of Con	puter Science			
Dr. Madhu S. Nair	International Arab Journal of Information Technology(SCI IF: 0.39)	International	Editorial Board Member	Revie wer
	IEEE Signal Processing Letters	International		Revie wer
	IEEE Geoscience and Remote Sensing Letters	International		Revie wer
	IEEE Journal of Biomedical and Health Informatics	International		Revie wer
	Signal Processing (Elsevier)	International		Revie wer
	Soft Computing (Springer)	International		Revie wer
	Digital Signal Processing (Elsevier)	International		Revie wer
	Neuro computing (Elsevier)	International		Revie wer
	Defence Science Journal (DESIDOC, DRDO)	International		Revie wer
	Applied Numerical Mathematics (Elsevier)	International		Revie wer
	Computers and Electrical Engineering (Elsevier)	International		Revie wer
	Pattern Recognition Letters (Elsevier)	International		Revie wer
	Infrared Physics and Technology (Elsevier)	International		Revie wer
	Journal of Real-Time Image Processing (Springer)	International		Revie wer
	Mathematical Problems in Engineering (Hindawi)	International		Revie wer
	International Journal of Information Technology & Decision Making (World-Scientific)	International		Revie wer

	International Journal of Communication Networks and Distributed Systems (Inderscience)	International		Revie wer
	International Journal of Uncertainity, Fuzziness and Knowledge-Based Systems (World-Scientific)	International		Revie wer
	International Journal of Modelling, Identification and Control (Inderscience)	International		
	International Journal of Network Security	International		
Department of Dem	ography			
Dr. P Mohana chandran Nair	Janasamkhya	International	1	0
Dr. Anil Chandran S	Janasamkhya	International	1	0
Department of Econ				
Dr.Manju.S.Nair	ISDA Journal	National		
Dr.A.Abdul Salim	International Journal for Advanced Research in Emerging Discipline	International	3	
Institute of English				
G.S. Jayasree	Families, a journal published with Fulbright assistance.	International	Editoria 1 Board Member	
Institute of Manager	nent in Kerala	<u> </u>		
Dr. K.S.Chandrasekar	The Journal of Business and Economic Management	International	1	
	International journal of management (IJMT)	International	1	
	Journal of Ecology and Natural environment (www.academicjournals.org)	International	1	
	International journal of Emerging Business Issues	International	1	
	Basic Research Journal of Social and Political Sciences (BRJSPS) (www.basicresearchjournals.org)	International	1	
	"Management Trends", a journal of the South Gujrath University, Rajkot.	National	1	
	"KEEGEE Journal of Commerce", KG College, Pampadi	National	1	
	Journal of Financial Services and Management, Tamilnadu	National	1	
	Caarmel Journal of Management Research, Caarmel Engineering College, Pathanamthitta, Kerala	National	1	

Department of Envir	ronm	nental Sciences			
Dr. Jaya D.S.	Env	an Journal of vironmental Sciences SN: 0973-4759)	National		
Dr. Sabu Joseph	Pol	lution Research	National	Editoria 1 board	
Dr. Salom Gnana Thanga		rnal of Environmental logy	National		
Department of Futur	re Sti	udies	<u> </u>	<u> </u>	
Prof. Manoj Changat	1.	Discrete Mathematics (Elsevier)	International		Revie wer
	2.	Discrete Applied Mathematics (Elsevier)	International		Revie wer
	3.	Journal of Graph Theory (Springer)	International		Revie wer
	4.	Discussiones Mathematicae Graph Theory (University of Zielona Gora, Poland)	International		Revie wer
	5.	Theoretical Computer Science (Elsevier)	International		Revie wer
	6.	Australasian J. of Combinatorics ( <u>University of Queensland</u> <u>Press</u> , Australia)	International		Revie wer
	7.	National Academy Science Letters(Springer)	International		Revie wer
	8.	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences (Springer)	National		Revie wer
	9.	Taiwanese Journal of Mathematics (Mathematical Society of the Republic of China- Taiwan)	International		Revie wer
	10.	Carpathian Journal of Mathematics	International		Revie wer
	11.	Mathematical Reviews (American Mathematical Society – Math Scienet)	International		Revie wer
	12.	Zentralblatt Math (Springer Science + Business Media)	International		Revie wer

Department of Geol	ogy			
Dr E Shaji	Journal of Asian earth     sciences , Pre Cambrian     Research, Geoscience     Frontiers , JGSI	International		4
	2. International Interdisciplinary Journal		1	
Dr AP Pradeepkumar	Pre Cambrian Research,     Geoscience Frontiers     Transactions in GIS			4
	2. Proceedings of the INSA		1	
Dr S N Kumar	Applied Water Science- Springer Journal			
Dr Rajesh Reghunath	Journal of environmental management, Elsevier			
	International journal of     Environment and Waste     Management, UK			
	3. Indian journal of Marine Science, CSIR-NISCOM			
	4. International journal of Earth Science and Engineering, CAFET- INNOVA Technical Society			
Dr Sajin Kumar K S	Journal of Asian Earth     Sciences. Publisher:     Elsevier, China			
	2. Environmental Monitoring and Assessment, Publisher: Springer, Jamaica			
Department of Law				
K.C. Sunny	Global Science Technology Forum Journal of Social Sciences	International		1
Department of Libra	ary Sciences			
Dr. Vijayakumar K. P	Annals of Library and Information Studies	National	Two	One
	2. Journal of Information Science and Technology (JIST)			
	3. KELPRO Bulletin			
Dr.Humayoon Kabir S.	KELPRO Bulletin	National	Five	
	International Research     Journal of Library and     Information Science			
	3. ISST Journal of Advances in Librarianship			

	4. Journal of Library Advancements			
	Indian Journal of Library,     Information and Society			
Department of Man	uscript			
Dr. K.G Sreelekha	Journal of the manuscripts Pracheenakairali	National	Editor Depart ment Publicat ion ORI& MSS. Library	-
Dr. O. Padmakumari	Journnal of the manuscripts Pracheenakairali	National	Joint Editor Depart ment Publicat ion ORI& MSS. Library	-
Dr. Sainaba. M	Journnal of the manuscripts Pracheenakairali	National	Joint Editor Depart ment Publicat ion ORI& MSS. Library	
Dr. Rejani. R.S	Journnal of the manuscripts Pracheenakairali	National	Joint Editor Depart ment Publicat ion ORI& MSS. Library	-
Department of Math	nematics			
Dr.G.Suresh Singh	GSTF Journal of Mathematics, statistics and operations research(JMSOR)	International		
Dr.G.Suresh Singh	Mapana Journal of SCiences(MJS)	National		
Dr.A.R.Rajan	Asian Europian Journal Of Mathematics	International		

Department of Opto	electronics		
Dr.V.P.Mahadevan Pillai	Journal of Optics     (Springer) published by     Optical Society of India      Everyman's Science     published by Indian     Science Congress	International  National	Editoria 1 Board Member Editoria 1 Advisor
	Association		y Board Member
Dr.K.G.Gop chandran	American Journal of Quantitative Spectroscopy (Columbia International Publishing)		Member : Editoria I Board,
Department of Phys	ics		
Dr. G. Renuka	Utrascience	National	Editoria 1 Board
Department of Polit	ical Science		
Dr. J. Prabhash	South Asian Journal of     Political Studies	National	Editoria 1 Board Member
	Convergia: Inter disciplinary Journal	National	Editoria 1 Board Member
	3. Journal of Polity and Society	National	Editoria 1 Board Member
	4. Acts as reviewer of manuscripts, Oxford University Press, New Delhi		
Dr.G. Gopakumar	Journal of Parliamentary     Studies	National	Chief Editor
	2. ISDA Journal	National	Editorial Advisory Board
	3. Asian Journal of Political Studies	National	Editorial Advisory Board
	4. International Journal of South Asian Studies	International	Member, Internati onal Board of Editors
Dr.Shaji Varkey	Journal of Polity and Society	National	Editor
Dr. Sajad Ibrahim	Journal of Law and Social Sciences	International	Associate Editor
	Journal of Polity and Society	National	Editorial Board
Dr. Suresh R.	1. Holistic Thought	National	Editor
	2. Politico	International	Associate Editor

	3. Journal of Polity and Society	National	Editorial Board
Dr.Joseph Antony	Journal of Polity and Society	National	Associate Editor
Dr. Josukutty CA	Journal of Polity and Society	National	Editorial Board
Dr.Samuel Kuruvila	Journal of Polity and Society	National	Assistant Editor
Ms.Anu Unni	Journal of Polity and Society	National	Editorial Board
Department of Psyc	hology		
Immanuel Thomas	The Psyche space	National	Chief editor
Department of Socio	ology		
Dr. Sobha.B.Nair	Research Essence – Interdisciplinary Biannual Journal	National	Member, Advisory Board- (1)
Department of Statis	sitics		
Dr.P.Yageen	Statistical Papers	International	
Thomas	2. Communications in statistics-Theory & Methods	International	
	3. Calcutta Statistical Association Bulletin.	National	
	4. Journal of King Soudh University, Riyadh	International	
	Journal of Korean     Mathematical Society	International	
Dr. C. Satheesh Kumar	Communications in statistics-Theory     &Methods	International	
	2. Journal of Statistical Computation & Simulation	International	
	3. Sri Lankan Journal of Applied Statistics.	International	
	4. Pakistan Journal of Statistics & Operations Research	International	
	5. Bulletin of the Malaysian Mathematical Society	International	
	6. Mathematical Review	International	
	7. Journal of Engineering and Computer Innovations	International	
	8. Acta Applendica Mathematica	International	
	Journal of Probability and Statistical Sciences	National	
	10. Probstat Forum	National	

	11.	Journal of the Kerala Statistical Association	National			
Dr.Manoj Chacko	1.	Communications in statistics Theory& Methods	International			
	2.	Brazilian Journal of Probability& Statistics	International			
	3.	Statistical papers	International			
	4.	Statistics& Probability Letters	International			
	5.	Journal of Statistical Planning & Inference	International			
	6.	Sankhya-B	International			
	7.	Hacettepc Journal of Mathematics and Statistics	International			
	8.	Probstat Forum	National			
	9.	Journal of the Kerala Statistical Association	National			
Dr. E.I. Abdul Sathar	1.	South African Journal of Statistics	International			
	2.	Journal of Applied Statistical Science	International			
	3.	Probstat Forum	National			
Department of Tam	il					
Dr.P.Jeyakrishnan	1.	Kavya	National	1		
	2.	Tamil sangamam	International	1		
Department of Zoology						
Dr. G. Prasad		rnal of Aquatic Biology & heries	National		Screen ing Board	
Dr. M.C Subhash Peter		neral Comparative locrinology	International	Associate Editors		

### 3.4.4 Details of research awards/recognition received by faculty:

National/	Name of faculty	Nation	nal	Interi	national
Internatio		Name of Agency	Nature of	Name of	Nature of
nal			recognitions	Agency	recognitions
Recogniti					
on					
received					
by the					
Faculty					
Year					
Department	of Aquatic Biology &	Fisheries			
2011-12	Dr. K. Padmakumar	Ministry of	Member of		
		Environment and	Kerala		
		Forests	Coastal Zone		
			Management		
			Authority		

2012-13	Dr. K. Padmakumar	Indian National Science Academy Fellowship		Common wealth Academic Fellowship  To visit South China Sea Institute of Oceanolog	To visit Marine Biodiscovery Centre, Department of Chemistry, University of Aberdeen, United Kingdom
	Dr. A. Biju Kumar	Directorate of Environment and Climate Change	Member, Research Committee	y, China	
Department	of Biochemistry				
2011-12		Central Coconut Development Board, Govt. of India	Cash and Citation ₹ 50,000/-		
Department	of Computer Science				
2011-12	Dr. Madhu S. Nair	Best Paper Award during ACC 2011 Most Active	Certificate  Certificate		
		Reviewer Award from International Arab Journal of Information Technology.(SCI IF: 0.39)	Cerumeate		
2012-13	Dr. Madhu S. Nair	Most Active Editorial Board Member Award from International Arab Journal of Information Technology.(SCI IF: 0.39)	Certificate		
		Most Prominent Alumni Award from MES College, Aluva	Memento		
2013-14	Dr. Madhu S. Nair	Institution of Engineers India (IEI) Young Engineers Award CSI Paper Presenter Award at International Conference AICTE Career Award for Young Teachers (CAYT)	Cash Award of Rs.10000/-, Certificate and Citation Certificate and Citation  Research project worth ₹ 45000/-		

Departme	nt of Botany	Institution of Engineers India (IEI) Computer Society of India (CSI)  All India Council for Technical Education (AICTE)	IEI Young Engineers Award.  Paper Presenter Award at International Conference Career Award for Young Teachers (CAYT)		
2009-10	Dr. Ashalatha S Nair			University	Honourary
				of Leicester, United Kingdom	Visiting Professor
2009-10	Dr. Suhara Beevy S.	Indian Association for Angiosperm Taxonomy (IAAT)	Fellow of the Indian Association for Angiosperm Taxonomy (FIAAT)		
2012-13	Dr. Ashalatha S Nair	KSCSTE	Member, Research Committee		
		UGC, SAP Committee 100 <sup>th</sup> Indian	Subject expert		
		Science Congress	Invited to deliver theme lecture in Plant Science. Received a memento.		
2012-13	Dr. E.A. Siril	Kerala State Council for Science Technology and Environment Dr. S. Vasudev Award	₹ 50,000		
Departmen	nt of Chemistry	1	<u>'</u>		
2008-09	Dr T.S Anirudhan			American Chemical Society	Nominated member
	Dr K. Mohanan	Council of Indian Chemical Society, Kolkatta	Elected member 2008- 2010		
		MG University	Board of studies member		
	Dr K.N Rajasekharan	KSCSTE	Member, Research Committee		
		UGC, SAP	Nominated		
2010-11	Dr K.N Rajasekharan	Indian Science Congress	member Sectional secretary of chemical sciences		

2011-12	Dr T.S Anirudhan	IIST, Trivandrum	Member Research Committee		
2012-13	Dr T.S Anirudhan	Taxes and Excise Department, Govt. of Kerala	Chairman Committee on chemical composition of toddy		
2013-14	Dr T.S Anirudhan	Society for Polymer Science, India	Vice-President		
	Dr SMA Shibli	IAHEAM	President		
	nt of Communication and			1	
2008-09	P.V.Yaseen	CAEJAC, Canada	Member		
2009-10	Dr. Subash K.	CAEJAC, Canada	Member		
2010-11	Dr.Harikumar	International Environmental Journalists Association	Member		
	nt of Computation Biolog Dr. Achuthsankar S.		INICA Dane	l I	
2012-13	Nair	Indian National Science Academy	INSA Best Teachers Award		
	nt of Demography Dr. P Mohana	Indian	D4 D 1		
2011-12	chandran Nair	Association for the Study of Population (IASP)	Best Research Paper Award		
Departmen	nt of Economics	(== == )			
Department 2012-13	nt of Economics Dr.Manju.S.Nair	CDS			
2012-13					
2012-13	Dr.Manju.S.Nair		Research award		
2012-13 Departmen	Dr.Manju.S.Nair nt of Education Dr Asha J.V nt of Hindi	CDS			
2012-13  Departmer 2011-12  Departmer 2013-14	Dr.Manju.S.Nair  tt of Education  Dr Asha J.V  tt of Hindi  Dr.Jayachandran.R	CDS		South Asian Society for Criminology and Victimology (SASCV) www.sascv.c	President
2012-13 Departmer 2011-12 Departmer 2013-14 Institute of	Dr.Manju.S.Nair  t of Education  Dr Asha J.V  t of Hindi  Dr.Jayachandran.R	CDS  ICSSR  Nehru Group of Institution, Coimb atore, TN	Rs. 10,000/-	Society for Criminology and Victimology (SASCV) www.sascv.c	ed as Vice- President
2012-13  Departmer 2011-12  Departmer 2013-14  Institute of 2012-13	Dr.Manju.S.Nair  nt of Education  Dr Asha J.V  nt of Hindi  Dr.Jayachandran.R  f English  Dr. Meena T. Pillai	CDS  ICSSR  Nehru Group of Institution, Coimb	award Rs.	Society for Criminology and Victimology (SASCV) www.sascv.c	ed as Vice- President
2012-13  Departmer 2011-12  Departmer 2013-14  Institute of 2012-13	Dr.Manju.S.Nair  It of Education Dr Asha J.V  It of Hindi Dr.Jayachandran.R  F English Dr. Meena T. Pillai	CDS  ICSSR  Nehru Group of Institution, Coimb atore, TN	Rs. 10,000/-  Meenakshy Mukherjee Memorial Award for best academic	Society for Criminology and Victimology (SASCV) www.sascv.c	ed as Vice- President
2012-13  Departmer 2011-12  Departmer 2013-14  Institute of 2012-13  Institute of 2008-09	Dr.Manju.S.Nair  Int of Education Dr Asha J.V  Int of Hindi Dr.Jayachandran.R  F English Dr. Meena T. Pillai  F Management in Kerala Dr.K.S.Chandra sekar	ICSSR  Nehru Group of Institution, Coimb atore, TN  IACLALS  Best Academic of the Year 2008, Amity University	Rs. 10,000/-  Meenakshy Mukherjee Memorial Award for best academic	Society for Criminology and Victimology (SASCV) www.sascv.c	ed as Vice- President
2012-13 Departmer 2011-12 Departmer 2013-14  Institute of 2012-13	Dr.Manju.S.Nair  It of Education Dr Asha J.V  It of Hindi Dr.Jayachandran.R  F English Dr. Meena T. Pillai  f Management in Kerala Dr.K.S.Chandra	ICSSR  Nehru Group of Institution, Coimb atore, TN  IACLALS  Best Academic of the Year 2008,	Rs. 10,000/-  Meenakshy Mukherjee Memorial Award for best academic	Society for Criminology and Victimology (SASCV) www.sascv.c	ed as Vice- President

		Marketing Management", CMO Asia,		
		Suntec, Singapore		
		All India Management Association, New Delhi		
		Higher education forum, Mumbai MTC Global, Bangalore		
	Dr.R.Vasantha gopal	CBEES (Asia- Pacific Chemical Biological and Environmental Engineering Society, Hong Kong	Member	
		International Association of Computer Science and Information Technology), Singapore		
		International Economics development Research centre), Hong Kong		
2013-14	Dr.K.S Chandrasekar	Shri P.K.Das memorial Life time Achievement Award (Management), Nehru Group of Institutions, Coimbatore	Rs.25000	
	nt of Oriental Research In			
2012- 2013	Dr.K.G Sreelekha	FOCANA Bhashaykkoru Dollar (Research Guide)	-	
	Dr. Sainaba. M	Malayala bhasha Parishath	2000/-	
_	nt of Optoelectronics			
2008-09	Dr.K.G.Gop chandran	Indian Vacuum Society Kerala Academy	Member	
		of Sciences American Nano Society		
		Institute of Physics		

2008-09	Dr. V.P. Mahadevan	Indian Physics	Member		
2008-09			Member		
	Pillai	Association			
		Indian Society			
		for Non-			
		Destructive			
		Testing,			
		Optical Society			
		of India, Indian			
		Laser			
		Association,			
		Indian Science			
		Congress			
		Association,			
		Kerala Academy			
		of Sciences,			
		Photonic Society			
		of India,			
		Material Society			
		of India			
2009-10.	Dr. V.P. Mahadevan	Indian Laser	General		
	Pillai	Association	Secretary for		
			2009-10;		
			2010-11; and		
			2011-12.		
2010-11	Dr. V.P. Mahadevan	97 <sup>th</sup> Indian	Local Joint		
	Pillai	Science Congress	Secretary		
		2010			
2011-12	Dr. V.P. Mahadevan			DAAD	Visited
2011-12	Pillai			Fellowship	Karlsruhe
	1 mai			Tenowsinp	University
					of Applied
					Science,
					Germany
					for two
					weeks.
_					oras.
_	nt of Political Science			T T T C C .	
2008-09	Dr.K.Sajad Ibrahim			US State	
				Department:	
				US Institute	
				Programmeme	
				(June –	
				July 2008)	
2010-11	Dr. Josuktty C.A.			Salzburg	Salzburg
				Seminar	Seminar
					Fellows
					hip
2009-10	Dr G. Gopakumar	NAAC,	Coordinator	Monash	Senior
		Bangalore	NAAC	University,	Fellow,
			Peer Team	Melbourne	Australi
					a-India
					Council
2010-11	Dr. J. Prabhash			University o	
	Dr. Shaji Varkey			New South	Researc
	Dr. G. Gopa Kumar			Wales,	h
	_			Australia	Fellow
	Dr. Josuktty C.A.			U.S. State	SUSI
				Department	Fellows
	1				hip
				1	1
2011 12	De I Deckhoot			I Iniversity	f Viaiti
2011-12	Dr. J. Prabhash			University o	
2011-12	Dr. Shaji Varkey			New South	Research
2011-12					

2012-13	Dr. Samuel J Kuruvila Dr. J. Prabhash			Hebrew University of Jerusalem University of	Travel Grant of \$1000 to attend an Internati onal Confere nce Visiting
	Dr. Shaji Varkey			New South Wales, Australia	Researc h Fellow
2012 14	Dr. Samuel J Kuruvila	NAAG	Chriman	London School of Economics and Political Science	Travel Grant of GBP 450 to attend the Confere nce 2012- Revoluti on and Revolt: Understa nding the Forms and Causes of Change.
2013-14	Dr.J.Prabhash	NAAC, Bangalore	Chairman NAAC Peer Team		
	nt of Statistics				
2010-11	Dr. C.Satheeshkumar	AADSUK	1000/-		
2012-13	Dr.E.I. Abdul Sathar	AADSUK	1000/-		
Departmen	nt of Tamil				
2008-09	Dr.P.Jeyakrishnan	All India Tamil Teachers Association.	1000		

## 3.4.5 Average no of MPhil & PhD:

Year	Name of faculty	Total No. of MPhil	Total No of PhD			
Department of Aquatic Biology and Fisheries						
2010-14	Dr. V. Jayaprakas	4	-			
	Dr. Tresa Radhakrishnan	1	5			
	Dr. A. Biju Kumar	8	2			
	Dr. K. Padmakumar	7	2			
	Dr. Pramod Kiran, RB	6	-			
	Dr. S. Radhakrishnan	-	2			
	Dr. K. Dhevendaran	-	4			
	Dr. P. Natarajan	-	6			
	Dr. T. Vasudevan Nayar	-	2			

1	Dr. S.D. Ritakumari	-	2
	Dr. N. K. Balasubramanian	-	1
	Dr. H. Suryanarayanan	-	2
Department of			<u> </u>
2010-14	Dr.Ubaid A	7	3
	Dr. Nizarudeen	9	3
	Dr.Thajudeen A S	2	1
	Noushad V	2	2
Department of	f Archaeology	1	<u> </u>
2009-10	Dr.Ajit Kumar	2	-
Department of	f Biochemistry		<u> </u>
2008-09		6	38
2009-10		13	44
2010-11		12	51
2011-12		11	45
2012-13		12	45
2013-14		12	44
Department of	f Biotechnology		
2010-14	Dr.A.J Nair	3	4
	Dr.V.Thankamoni		3
Department of	f Botany		
2010-14	Dr.P.M. Radhmany	4	1
2010-14	Dr.P.M. Radhmany Dr.Ashalatha S.Nair	4 4	3
2010-14		-	_
2010-14	Dr.Ashalatha S.Nair	4	3
2010-14	Dr. Ashalatha S.Nair Dr. Suhara Beevy S	4 4	3 2
2010-14	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad	4 4 4	3 2 -
2010-14	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril	4 4 4 5	3 2 -
Department of	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril Dr. Bindu R.Nair Dr. R.Rajalakshmi	4 4 4 5 4	3 2 -
	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril Dr. Bindu R.Nair Dr. R.Rajalakshmi	4 4 4 5 4	3 2 -
Department of	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril Dr. Bindu R.Nair Dr. R.Rajalakshmi f Chemistry	4 4 4 5 4 4	3 2 - 2
Department of	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril Dr. Bindu R.Nair Dr. R.Rajalakshmi f Chemistry Dr P. Indrasenan (Retd)	4 4 4 5 4 4	3 2 - 2 - - 5
Department of	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril Dr. Bindu R.Nair Dr. R.Rajalakshmi f Chemistry Dr P. Indrasenan (Retd) Dr S.M.A Shibli	4 4 4 5 4 4	3 2 - 2 - - - 5 3
Department of	Dr. Ashalatha S.Nair  Dr. Suhara Beevy S  Dr. A. Ganagaprasad  Dr.E.A.Siril  Dr. Bindu R.Nair  Dr. R.Rajalakshmi  f Chemistry  Dr P. Indrasenan (Retd)  Dr S.M.A Shibli  Dr K.Mohanan	4 4 4 5 4 4 4	3 2 - 2 - - - 5 3 8
Department of	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril Dr. Bindu R.Nair Dr. R.Rajalakshmi f Chemistry Dr P. Indrasenan (Retd) Dr S.M.A Shibli Dr K.Mohanan Dr K.N.Rajesekharan	4 4 4 5 4 4 4 - 9 6 4	3 2 - 2 - - - 5 3 8 5
Department of	Dr. Ashalatha S.Nair  Dr. Suhara Beevy S  Dr. A. Ganagaprasad  Dr.E.A.Siril  Dr. Bindu R.Nair  Dr. R.Rajalakshmi  f Chemistry  Dr P. Indrasenan (Retd)  Dr S.M.A Shibli  Dr K.Mohanan  Dr K.N.Rajesekharan  Dr T.S Anirudhan	4 4 4 5 4 4 4 - 9	3 2 - 2 - - - 5 3 8 5 13
Department of	Dr. Ashalatha S.Nair  Dr. Suhara Beevy S  Dr. A. Ganagaprasad  Dr.E.A.Siril  Dr. Bindu R.Nair  Dr. R.Rajalakshmi  f Chemistry  Dr P. Indrasenan (Retd)  Dr S.M.A Shibli  Dr K.Mohanan  Dr K.N.Rajesekharan  Dr T.S Anirudhan  Dr Sony George	4 4 4 5 4 4 4 - 9	3 2 - 2 - - 5 3 8 5 13 3
Department of 2010-14	Dr. Ashalatha S.Nair Dr. Suhara Beevy S Dr. A. Ganagaprasad Dr.E.A.Siril Dr. Bindu R.Nair Dr. R.Rajalakshmi f Chemistry Dr P. Indrasenan (Retd) Dr S.M.A Shibli Dr K.Mohanan Dr K.N.Rajesekharan Dr T.S Anirudhan Dr Sony George Dr Sreekumar K (Former Faculty)	4 4 4 5 4 4 4 4 9 6 4 9 7	3 2 - 2 - - 5 3 8 5 13 3
Department of 2010-14	Dr. Ashalatha S.Nair  Dr. Suhara Beevy S  Dr. A. Ganagaprasad  Dr.E.A.Siril  Dr. Bindu R.Nair  Dr. R.Rajalakshmi  f Chemistry  Dr P. Indrasenan (Retd)  Dr S.M.A Shibli  Dr K.Mohanan  Dr K.N.Rajesekharan  Dr T.S Anirudhan  Dr Sony George  Dr Sreekumar K (Former Faculty)  Dr Ani Deepthi	4 4 4 5 4 4 4 4 9 6 4 9 7	3 2 - 2 - - 5 3 8 5 13 3

Department of Computational Biology								
2010-14	Dr. Achuthsankar S. Nair	24	9					
Department of	of Computer Science							
	Dr. M. Wilscy	23	28					
	Dr. Madhu S. Nair	23	-					
2010-14	Smt. Philomina Simon	23	-					
	Smt. Remya S (Contract Lecturer)	3	-					
	Ms. Aswathy A. L. (Contract Lecturer)	6	-					
Department of	Department of Commerce							
2010-14	Dr.K.Sasikumar (Retd)	6	2					
	Dr.C.Ganesh	8	2					
	Dr.Resia Beegum	8	1					
	Dr.Gabriel Simon Thattil	8	2					
	Dr.G.Raju	8	2					
	Dr.Sureshkumar	2	-					
Department of	of Demography							
2010-14	Dr. P Mohanachandran Nair	17	7					
	Dr. Sulaja S	8						
	Dr. Anil Chandran S	7						
Department of	of Economics							
2010-14	Dr.M.K.Saralamma	3						
	Dr.A.K.Prasad	9						
	Dr.Manju.S.Nair	8	2					
	Dr.Abdul Salim	1						
Department of	of Education							
2010-11	Dr.Asha.J.V	5	1					
	Dr Geetha Janet Vitus	5	1					
	Dr.Tresa Susan	5	1					
2011-12	Dr.Asha.J.V	2						
	Dr Geetha Janet Vitus	2	2					
	Dr.Tresa Susan	2	1					
2012-13	Dr.Asha.J.V	2	0					
	Dr Geetha Janet Vitus	2	2					
2013-14	Dr.Asha.J.V	0	4					
	Dr Geetha Janet Vitus		1					
	of Environmental Science							
2010-14	Dr. Jaya D.S.	9	4					
	Dr. Salom Gnana Thanga	8	2					
	Dr. Sabu Joseph	10	3					
	of Future Studies							
2010-14	Prof. V.Nanda Mohan	-	2					
	Prof. Manoj Changat	8	1					

	Dr.K.Satheesh Kumar	3	_				
	Dr. Christabell.P.J	3	_				
Department of							
2010-14	Dr Shaji E	2	1				
2010 11	Prof V Prasannakumar	1	1				
	Dr R B Binoj Kumar	1					
	Dr Rajesh Reghunath	1	1				
	Dr S N Kumar	1	1				
Department of		1					
2013-14	Dr.Jayachandran.R	2	1				
Institute of E	<u> </u>	_					
2010-14	Dr. V. Syamala (Retd. Professor, Institute of English)	-	2				
	Dr. Jameela Begum A, Retd. Professor	-	3				
	Dr. Evangeline Shanti Roy	-	1				
	Dr. Maya Dutt	2	4				
	Dr. G. S. Jayasree	1	3				
	Dr. Meena T. Pillai	-	-				
	Dr. B. S. Jamuna	4	-				
	Dr. B. Hariharan	7	4				
	Dr. Jancy George	-	2				
Institute for N	Management in Kerala						
2010-14	Dr J.Rajan	6	7				
	Dr K.S.Chandrasekar	4	16				
	Dr R.Vasanthagopal	2	8				
Department of	f Islamic History						
2010-14	Dr. S. Sharafudeen	5	1				
	Sri. Asharaf A.	5	-				
Department of	f Law						
2010-14	Dr.K.C.Sunny	-	12				
	Dr. Bismi Gopalakrishan	-	2				
Department of	f Library Science						
2010-14	Dr. Vijayakumar K P	6	28				
	Dr. A. Gopikuttan	6	42				
	Dr. Humayoon Kabir S.	5	31				
	Dr. B. Mini Devi	3					
Department of Linguistics							
Department of	f Linguistics	1					
Department of 2010-14	f Linguistics  Dr.Rose Mary A	11	2				
-	I The state of the	11 12	2 5				
	Dr.Rose Mary A						
-	Dr.Rose Mary A Dr. S.A Shanavas	12	5				
2010-14	Dr. Rose Mary A Dr. S.A Shanavas Dr. S. Kunjamma	12 10 2	5				

2010-14	Dr. K.G Sreelekha	15	5
	Dr. N. Sam (Retd)	3	6
	Dr. O. Padmakumari	7	1
	Dr. Sainaba. M	2	_
	Dr. Rejani. R.S	2	_
Department	of Mathematics	2	_
2010-14	Dr.G.Suresh Singh	8	_
2010-14			-
	Dr.A.R.Rajan	8	-
	Dr.C.Jayasri	8	-
	Dr.L.John	8	=
	Dr.P.Ramesh Kumar	8	-
	of Optoelectronics		
2010-14	Dr.V.P.Mahadevan Pillai	9	8
	Dr.K.G.Gopchandran	11	7
	Dr.Sudheer S.K	3	-
	Dr. Yamuna A	5	-
	Dr.M.Satyanarayana	-	2
Department	of Philosophy		
2010-14	Dr.Beena Isaac	13	15
	Dr.A.K.Sulekha	2	-
Department	of Physics		
2010-14	Dr. C I Muneera	9	5
	Dr. M. Abdul Khadar	-	5
	Dr. V. Biju	15	-
	Dr. I N Jawahar	3	-
	Dr. S. R. Prabhakaran Nayar	-	2
	Dr. S Devanarayanan	_	1
Department	of Political Science		
2010-14	Dr. G. Gopakumar	2	2
	Dr. Shaji Varkey	7	2
	Dr Sajad Ibrahim	7	1
	Dr. Joskutty C.A.	8	-
	Dr. J. Prabhash	-	3
	Dr. Joseph Antony	1	2
	Dr. Suresh R.	1	-
	of Psychology		
2010-14	Dr.Immanuel Thomas	30	-
	Dr.Raju S	7	-
	Dr.Bindu P	9	-
	Dr.Jaseer	10	-
Department	of Sociology		
2010-14	Dr. Jacob John Kattakayam	-	5
	Dr. Sobha.B.Nair	6	4
	Dr. Bushra Beegom R K	5	4
•		•	

	Dr. M.S Jayakumar	2	4		
Department of Statistics					
2010-14	Dr.P.Yageeen Thomas	1	3		
	Dr.G.Lesitha	6	=		
	Dr. C.Satheeshkumar	6	1		
	Dr. Manoj Chacko	6	1		
	Dr. E.I.Abdul Sathar	5	-		
Department of	f Tamil				
2010-14	Dr.Kanchana	8	2		
	Dr. P.Jeyakrishnan	10	4		
	Dr. Subramoniapillai	-	1		
	Dr.T. Vijayalakshmi.	5	1		
	Dr. Hepsy Rose Mary.A	5	-		
	Dr. Gloria Sundaramathi	-	2		
Department of	of Zoology				
2010-14	Dr. G. Prasad	10	=		
	Dr.MC Subhash Peter	13	5		
	Dr.Sreejith P	2	-		

It may also be noted that the University of Kerala has started to participate in "*Shodhganga*" since 2013 wherePhD thesis can be deposited for open access

#### 3.4.6 Mechanism to check research malpractices and plagiarism:

As per the University policy, the responsibility is with the respective supervisor to ensure that there is no malpractice in the research work carried out under their guidance. The PhD examiners can also report of any malpractices if any and the University would initiate necessary action on the same. As of now, no research malpractices have been reported.

#### **3.4.7.** Promotion of inter-disciplinary research:

Period	Project/PhD Title	Sponsoring agency, if any	Collaborating Dept/Institute	Period	Coordinators/ Supervisors
Departme	ent of Aquatic Biolog	y & Fisheries			
2008- 09	Monitoring and Surveillance of Harmful Algal Blooms	Ministry of Earth Sciences, Govt. of India	Cochin University of Science and Technology	2008-12	Dr. K. Padmakumar
2012- 13	River Bank Mapping for Vamanapuram River, Kerala	Revenue Department, Govt. of Kerala	Dept. of Environmental Sciences, Uty of Kerala	2012-13	Dr. A. Biju Kumar (Co-PI)
	Monitoring Harmful Algal Bloom Dynamics and Algal Cyst Mapping Along the Indian Coast	Marine Living Resources Programme, Ministry of Earth Sciences, Govt. of India	International centre for Genetic Engineering and Biotechnology (ICGEB), New Dehli	2012-17	Dr. K. Padmakumar
Departme	ent of Archaeology				
2008-	Archaeological		Univ.of Cambridge	2008-09	Dr.Ajit Kumar

09	Exploration at Vizhinjam				
2009- 10	Archaeological Exploration at Vizhinjam		University of Cambridge	2009-10	Dr.Ajit Kumar
2010- 11	Excavation at Vizhinjam	Uni. of Kerala and University of Cambridge	University of Cambridge	2010-11	Dr.Ajit Kumar Dr.Robert Harding
2011- 12	Excavation at Vizhinjam	University of Kerala	Hinae Sasaki Kanasawa University, Japan	2011-12	Dr.Ajit Kumar
2012- 13	Excavation at Vizhinjam	ASI, New Delhi, University of Kerala and UGC	Mr. Ritwik Balvally The Maharaja Sayajirao University of Baroda	2012-13	Dr.Ajit Kumar
2013- 14	1.Excavation at Vizhinjam	UGC	Dr.Izumi Nakai Tokyo University of Science, Tokyo, Japan. Dr. David Meiggs Rochester Institute, USA. Dr. Akinori Uesugi Kanasawa University, Japan	2013-14	Dr.Ajit Kumar
	2.Excavation in Navinal in Kachchh and Explorations in Kachchh District, Gujarat	University of Kerala.	Gujarat Sate Archaeology Department, Gandhinagar, Gujarat. Kachchh University, Gujarat. MSU Baroda.Charotar University of Science and Technology, Gujarat. Birbal Sahni Institute of Palaeobotany, Lucknow. National Geographic Research Institute, Hyderabad. Albion College, USA. University of Wisconsin, Madison, USA. IMF, Spanish National Research Council, Spain. Rochester Institute, USA. Southampton University, UK.	2013-16	Dr.Rajesh S.V., Dr.Saleem Shaik Dr.Brad Chase, Dr.Y.S.Rawat, and Dr.Ambika Patel

			Kanasawa		
			University, Japan		
_	nt of Botany	l	I		l
Period	Project/PhD Title	Sponsoring agency, if any	Collaborating Dept/Institute	Period	Coordinators/Su pervisors
2011-12	PhD. Work - Identification and characterization of bioactive principles of Boerhavia diffusa against hepatitis C virus NS, protease		Department of Biotechnology, University of Kerala &Dept. of Zoology, University College	2012- 2015	Dr. Suhara Beevy S , Asst Professor Dept. of Botany& Dr. V.S. Sugunan , Associte Professor, Dept. of Zoology, University College
2013-14	PhD Work- Evaluation of antidiabetic potential of selected plants		Department of Biochemistry, University of Kerala		Dr.R.Rajalaksh mi Asst.Professor Dept. of Botany & Dr. Mini, Associate professor Dept.of Biochemistry
Departme	nt of Biochemistry				
2008-09	Bioconjugation of nanomaterials and their applications in cancer therapy	DBT	SCTIMST, Kerala	2007- 2011	Dr. Annie Abraham
2009-10	Value added biopolymers from shrimp waste.	DBR, India	Nil	19-11-09 to 18-11- 12	Dr.Muraleedhar a Kurup(PI) Dr. Arun A.Rauf (Co PI)
2010-11					
2011- 2012	Nanobiocompos ites from marine sourses for medical application.	RGNF	Nil	10/11/11 to 09/11/16	Dr. G. Muraleedhara Kurup
	Studies on the molecular mechanism of anti-inflammatory activity of the active principle of Oryza sativa Linn. (Njavara), Tricinin, in various inflammatory models.	UGC( order no. F.40- 196/2011(SR).	NIIST, Trivandrum and University of Kerala.	(2011- 2014)	Dr.A. Helen (PI) and Dr.A.Jayalaeksh mi (Co-PI)

2012- 2013	Biocomposites from marine source for surgical applications.	Ph.D Programmeme	Nil Nil	2012- 2017 28/09/20	Dr. G. Muraleedhara Kurup. Dr.G.
	based orthopaedic implants from shrimp waste and marine alge. (Research project).			12- 27/09/20 15	Muraleedhara Kurup (PI), Dr. Arun A. Rauf (Co PI).
2013- 2014					
Departmen	nt of Biotechnology				
2008-09	Structure- Function Studies of Diamino thiazoles, a New Class of Potential Anticancer Agents	DST, Govt. of India	Rajiv Gandhi Centre for Biotechnology, Trivandrum, DBT, India	2009-11	Dr. S. Sengupta, RGCB Dr K.N Rajasekharan
2009-10			Department of Zoology, KU Department of Aquatic Biology, KU Department of Biotech, IIT Madras		Dr K.N Rajasekharan
Departmen	nt of Communication	n and Journalism			
2010-11	Ph.D work 'Communication aspects of Computer Graphics'		Department of Bio- informatics		Dr.Subash.K (Journalism/Co mmunication) Dr.A.Shankar S.Nair (Bioinformatics)
Departmen	nt of Computational	Biology and Bioir	nformatics		
2009-10	Introducing element and principle of ancient Indian art in Modern communication Design: A study of responsive web design with HTML and CSS3 based on Talamana System.	NA	Dept. of Communication and Journalism	5 years	Dr. Achuthsankar S. Nair Dr. Subash K.
2013-14	Effect of Music on Embryonic Development:A study on Avian Model	IUCSSM and MG University Kottayam.	Department of Computational Biology and Bioinformatics	1 year	Dr. Achuthsankar S. Nair

Departmen	nt of Computer Scie	nce			
2008-09	Evaluation of	-	Bio Medical	1 year	Dr. M Wilscy
2000-07	WMH for Brain		Technology	1 ) Сш	(University of
	MRI for		Wing,SCTIMST,		Kerala) and Dr.
					· · · · · · · · · · · · · · · · · · ·
	Neurodegenerati		Thiruvananthapura		R. S. Jayasree
	ve Diseases		m		(SCTIMST)
	Fractal Analysis	-	Bio Medical	1 year	Dr. M Wilscy
	of White Matter		Technology		(University of
	Surface from		Wing,SCTIMST,		Kerala) and Dr.
	MR Images of		Thiruvananthapura		R. S. Jayasree
	Human Brain.		m		(SCTIMST)
2009-10	Fuzzy Logic	_	Naval Physical		Dr. M Wilscy
2009-10	Based	-			
			Oceanographic		(University of
	Automatic		Laboratory		Kerala), Dr.
	Contrast		(NPOL), Kochi		Madhu S. Nair
	Enhancement of				(University of
	Satellite Images				Kerala) and Dr.
	of Ocean				Rao Tatavarti
					(NPOL)
2010-11	Directional	-	Naval Physical	1 year	Dr. Madhu S.
2010-11	Switching	_	Oceanographic	ı yeai	
	C				Nair (University
	Median Filter		Laboratory		of Kerala) and
	using Boundary		(NPOL), Kochi		Dr. Rao
	Discriminative				Tatavarti
	Noise Detection				(NPOL)
	by Elimination				
	Automatic	-	Naval Physical	1 year	Dr. M Wilscy
	Contrast		Oceanographic	- 5	(University of
	Enhancement		Laboratory		Kerala), Dr.
	using Selective		(NPOL), Kochi		Madhu S. Nair
			(NPOL), Kocili		
	Gray Level				(University of
	Grouping				Kerala) and Dr.
					Rao Tatavarti
					(NPOL)
2011-12	SAR Image De-	-	Department of	1 year	Dr. Madhu S.
	speckling using		Earth and Space	_	Nair (University
	Importance		Sciences, Indian		of Kerala) and
	Sampling		Institute of Space		Dr. G. R. K. S.
	Unscented		Science and		
					Subramanyam
	Kalman and		Technology (IIST)		(IIST)
	Non Local				
	Means Filters				
	Iterative	-	iMinds-Vision Lab,	1 year	Dr. Madhu S.
	Bilateral Filter		Department of		Nair (University
	for Rician Noise		Physics, University		of Kerala), Dr.
	Removal from		of Antwerp,		Jan Sijbers
	Magnitude MRI		Antwerp, Belgium		(University of
	Magintude MINI		and National		
					Antwerp) and
			Institute of		Dr. Jeny Rajan
			Technology		(NIT Surathkal)
			Surathkal.(NITK)		
	Detection of	-	Naval Physical	1 year	Dr. Madhu S.
	Straight Lines		Oceanographic		Nair (University
	using Rule		Laboratory		of Kerala) and
	Directed Pixel		(NPOL), Kochi		Dr. Rao
			(TVI OL), KUCIII		
	Comparison				Tatavarti
	(RDPC) Method				(NPOL)
	Fuzzy based	-	Department of	1 year	Dr. Madhu S.
	Fractional		Radio diagnosis,		Nair (University
	Anisotropic		Dr. S.M.C.S.I.		of Kerala) and
			Medical College,		Dr. Anil
	Diffusion for				
	Diffusion for		_		
	Edge Preserving		Karakonam,		Prahladan
	Edge Preserving Speckle reduction		_		Prahladan (SMCSI
	Edge Preserving		Karakonam,		Prahladan

2013-14	Cell Image Segmentation and Color Coding based on Nucleus to Cell Ratio	Maulana Azad National Fellowship For Minority Students from UGC	Tissue Culture Laboratory, Bio Medical Technology Wing,SCTIMST, Thiruvananthapuram	1 year	Dr. M Wilscy (University of Kerala), Dr. Madhu S. Nair (University of Kerala) and Dr. Anil Kumar P R (SCTIMST)
	nt of Environmental		I mp cpt p t t	2004	D 1 D 0
2008-09	Ph. D. Studies on drought stress induced changes in cowpea (Vigna unguiculata L.) varieties and the effective utilization of coir pith for stress reduction.	KSCSTE	TBGRI, Palode, TVM.	2004-2009	Dr. Jaya D.S. and Dr. T.K. Abraham
2008-09	Application of isotopic techniques in assessing the sedimentation rates and pattern of sedimentation in the Vellayani freshwater lake, Thiruvananthap uram	9.84 lakhs	CWRDM. Kozhikode	2008-2014	Dr. Sabu Joseph (P.I) Dr. Unnikrishnan Warrier (Co-PI)
2011-12	Ph.D Biomonitoring of soil quality in Thiruvananthap uram district, Kerala using Nematodes as Indicators	-	CTCRI, Sreekariyam, TVM.	2007-2012	Dr. Jaya D.S. and Dr. C. Mohandas
2012-13	Research Project submitted	MoEF	CUSAT, Cochin	`	Dr. Salom Gnana Thanga and Dr. Bijoy Nandan
2013-14	Research paper submitted	-	National Centre for Earth Science Studies		Dr.Salom Gnana Thanga and Dr.Zachariah.I.J
Departme	nt of Futures Studies	s			
2009-10	Information Communication Technologies for Community Development		Department of Futures Studies & Computer Centre, University of Kerala	2009	Prof.V.Nanda Mohan (Dept. of Futures Studies) & Dr. V.Ajaya kumar, Director, Computer Centre
2010-11	Intrusion Detection Inference System		Department of Futures Studies	2011	Prof.V.Nanda Mohan (Dept. of Futures Studies)
2011-12	Fuzzy Forecasting		Department of Futures Studies	2011	Prof. Manoj Changat

2012-13	Strategic Management of Information Communi cation Technologies in the Third World Context River bank mapping and	Revenue Department,	Department of Futures Studies  River management cell, Govt. of	2013 2012- 2014	Prof.V.Nanda Mohan ( Dept. of Futures Studies)
	Sand auditing	Govt. of Kerala	Kerala CESS	2014	S.F.
Departmen	nt of Geology			ı	
2013-14	An Integrated Approach For Modelling of Salt Water Intrusion Into Coastal Aquifers – A Case Study		Dept. of Civil Engineering, Govt of College of Engineering, Trivandrum		Rajesh Reghunath
Departmen	nt of Optoelectronic	S			
2008-09	Rani JR Preparation of silicon nanorings and quantum dots using pulsed laser deposition and characterisation studies	KSCSTE , Govt of Kerala	CUSAT, Kochi Raman Research Institute, Bangalore, IUC, Indore		Dr. V P Mahadevan Pillai
2009-10	D Beena Title of the thesis: "Structural and optical properties of pulsed laser ablated nano structural indium oxide thin films"	University of Kerala	IUC, Indore		Dr. V P Mahadevan Pillai
	Jayasree.V Title of the thesis: "Studies on cation substitution in Tungsten-Bronze type Lead free ferrelectrics and properties of pulsed Laser ablated potassium Lithium Niobate Thin films	University of Kerala	CSIR-RRL, Thiruvananthapura m		Dr. V Unnikrishnan Nayar Dr. V P Mahadevan Pillai Dr. Peter Koshy
	Lethy.K.J Investigations on the structural, optical and electrical properties of Nanostructured	University of Kerala	IUC, Indore		Dr. V P Mahadevan Pillai

_				
	tungsten oxide thin films prepared by pulsed laser deposition technique			
	N. Venugopalan Pillai Structural and optical properties of pulsed laser ablated nano structural indium oxide thin films	University of Kerala	IUC, Indore CSIR-RRL, Thiruvananthapura m	Dr. V P Mahadevan Pillai
	Vinod kumar R Investigation on the structural optical and electrical properties of laser ablated nano structured Zinc Oxide thin films	University of Kerala	IUC Indore Raman Research Institute, Bangalore	Dr. V P Mahadevan Pillai
	Sree lekshmi KC Studies on Digital X ray Imaging technique and Computed Tomagarphic Reconstruction for non Destructive Valuation for the Space vehicle components	University of Kerala	VSSC, Thiruvananthapura m	Dr. V P Mahadevan Pillai Dr. V R Ravindran
2011-12	Micro structural & spectroscopic investigations of Pulse laser ablated nano structured Tantlum Oxide Films and Fabrication of Tantlum oxide Capacitors	KSCST,Govt of Kerala	IUC, Indore	Dr. V P Mahadevan Pillai Dr. KG Gopchandran
	Radhakrishnan S R Studies on LIDAR Inversion methods and characterization of atmospheric aero sols and clouds at low latitude tropic stations	ISRO	NARL, Gadanki	Dr. M Satyanarayana

2012-13	Navas I Molybenum Oxide nanostructured and its enabled gas sensor: design Fabrication and characterization Detty A P	DAAD, Germany	RRCAT, Indore		Dr. V P Mahadevan Pillai Dr. V P
	Studies on Morphological And Optical Properties of Silicon Nanoparticles Grown by Pulsed Laser Deposition	Kerala			Mahadevan Pillai
2013-14	Krishna Kumar V Studies on the Physical optical properties on zeroes clouds using ground based lidar and space borne systems	ISRO	NARL, Gadanki		Dr. V P Mahadevan Pillai Dr. M Satyanarayana
Departme	nt of Political Science	ce	<u> </u>	1	
2010-11	Ph. D. Programme  - Environment, Development and Livelihood Security of Adivasis in Wayanad: A Study of Paniya Women	University of Kerala	Dept. of Political Science	2009-11	Dr. Shaji Varkey
2011-12	Conservation in a Crowded World	University of New South Wales, Sydney, Australia	University of New South Wales, Sydney, Australia	2011-12	Dr. K.M.Sajad Ibrahim Dr. G. Gopakumar
	State of the Nation Survey	CSDS, New Delhi	Dept. Of Political Science	Aug- Sept 2011	Dr.K.M.Sajad Ibrahim
2012-13	Socio-Economic Condition of Dalits in Kerala: A Baseline Survey	University of Kerala			Dr. Shaji Varkey
	of Knowledge, Attitude, Behaviour and Practices of Voters in Kerala	Election Commission	Dept. of Political Science	2008 – '13	Dr. Shaji Varkey

	Ph. D.				
	Programmeme:				
	Globalisation and ChangingRole of the State: The Case of Middle Class Farmers in Kottayam	University of Kerala	Dept. of Political Science	2008 – '13	Dr. J. Prabhash
	Political Theatre and the Communist Movement in Kerala: A Study of KPAC	University of Kerala	Dept. of Political Science	2005 – °13	Dr. J. Prabhash
	Democracy, Development and and Human Rights: A Case Study of Sardar Sarovar Project	University of Kerala			Dr. J. Prabhash
	Participatory Forest Management in Kerala: A Case Study of Neyyar and Peppara Wildlife Sanctuary'	University of Kerala	Dept. of Political Science	2012 – 15	Dr.Shaji Varkey
	State of Indian	CSDS, New	Dept. Of Political	Dec-Jan	Dr.K.M.Sajad
	Farmers Survey Socio-economic Survey	Delhi CSDS, New Delhi	Science Dept. Of Political Science	2014 Nov- Dec 2013	Ibrahim Dr.K.M.Sajad Ibrahim
	World Values Survey 2012	CSDS, New Delhi	Dept. Of Political Science	Oct-Nov 2013	Dr.K.M.Sajad Ibrahim
2013-14	Evaluation Study of MGNREGA in	SIRD, Kottarakkara	Dept. of Political Science	1 Year	Dr. Shaji Varkey
	Kannur and Kozhikode Environment,	University of Kerala	Dept. of Political Science	1 Year	Dr Shaji Varkey
	Development and State: A Study of Protest Politics in Kerala	Election Commission	Dept. of Political Science	1 Year	Dr. Shaji Varkey
	Base Line Survey of Knowledge, Attitude, , Behaviour, Belief and Practices of Voters in Kerala				
	Feedback study on VICTER Tele education Network	ISRO	DECU	February -March 2014	Dr.Josukutty C.A.

Departmen	nt of Psychology				
2011-12	Predictors of Academic Performance and Motivation among Kenyan adolescents: A study among standard VIII pupils of Nairobi province  Effect of relaxation on the performance of female athlets: An intervention	ICCR	-	2008- 2011	Dr.Immanuel Thomas
	study				,
Departmen	nt of Zoology				
2009-10	Human-Elephant Conflicts (HEC) in selected Western Ghats regions of Kerala- A spatially Explicit Approach	NRDMS – DST.	Dept. Of Geology and Centre for Geoinformation Science and Technology, University of Kerala.	2009-11	Co Ordinator Dr. V. Prasannakumar, Director, Centre for Geoinformation Science and Technology
	Physiology of Iron nano particles	University of Kerala	science and Nano technology	1 year	Prof. M.C.Subhash Peter
2010-11	Environmental Degradation of Cherthala-Aroor- Edakochi belt due to seafood processing and its environmental management. Painwengtion of	DoECC Govt.Of Kerala.	Dept.Of Geology.	2010-12	Dr. G. Prasad PI and Dr. Rajesh Reghunath from Dept, Of Geology as Co Investigator
	Rejuvenation of ponds to revive the water environment of the problematic ponds in Kerala: A spatial information system and accomplishment plan for Thiruvananthapur am and Kollam districts.	DoECC Govt. Of Kerala	Dept. Of Geology	1 year	Dr. G. Prasad as Co PI and Dr. Rajesh Reghunath from Dept, Of Geology as Principal Investigator
	Physiology of Iron nano particles	University of Kerala	Centre for Nano science and Nanotechnology		Prof. M.C.Subhash Peter
2011-12	Physiology of Iron nano particles	University of Kerala	Centre for Nano science and Nanotechnology	1 year	Prof. M.C.Subhash Peter

2012-13	Physiology of Iron nano particles	University of Kerala	Centre for Nano science and Nanotechnology	1 year	Prof. M.C.Subhash Peter
2013-14	Physiology of Iron nano particles	University of Kerala	Centre for Nano science and Nanotechnology	1 year	Prof. M.C.Subhash Peter

#### **3.4.8.** Research awards by the university:

The University of Kerala has instituted the following three awards to recognize good research and encourage researchers to take up socially relevant research work. They are as follows:

- **1.** Sree Chitra Prize for Outstanding Contribution in Science and Technology (distributed annually)
- **2.** Best Research Publication (distributed annually)
- **3.** Best PhD Thesis (distributed annually)

Institute of English has Merit awards for PG students instituted under the auspices of the Alumni Association.

- 1 Dr. C.P.K. Tharagan Award
- 2 Dr. K.P.K. Menon Award
- 3 Dr. B. Hridayakumari Award

#### **3.4.9.** Incentives given to faculty for research contributions:

University has instituted a Best Project Award as cash prize in social sciences and sciences. The first award was distributed in 2012.

#### 3.5 <u>CONSULTANCY</u>

#### **3.5.1.** Official policy of the University for structured consultancy:

The University Consultancy Cell (UCC) is constituted to undertake the consultancy services of the University in a time bound manner and to provide guidelines for undertaking consultancy services. The University has framed guidelines for this purpose and our University has been undertaking consultancy services following the guidelines for the last fifteen years.

UCC is a body formed for promoting academic industry interaction and it consists of Vice-Chancellor (Chairman), Pro Vice-Chancellor, Registrar, Director (Planning & Development), one Syndicate Member, three heads of the departments and one Senior Professor nominated by the Vice-Chancellor. One of the members nominated by the Vice-Chancellor is serving as the Convener of the Cell and he shall report to the Vice-Chancellor on all matters relating to policy administration of the consultancy programmemes. The Cell is provided administrative support and secretarial assistance by the University.

A list of consultancy activities undertaken by various departments of University of Kerala are given below:

Sl.No	Title of the project	Client	Funding agency	Contract value
Depart	ment of Aquatic Biology & Fisher	ries		
2012- 13	Public Aquarium	Agency for Development of Aquaculture in Kerala (ADAK) at Varkala		100,000 (ongoing project; PI Dr A Biju Kumar)
	ment of Computational Biology			
2010-	Sponsored Consultancy	Microsoft		2 lakhs
2011- 12	Project Sponsored Consultancy Project	Corporation Biothera, USA		5 lakhs
2012- 13	Digitization of PBR	Kerala State Biodiversity Board (KSBB)		3 lakhs
Depart	ment of Future Studies	, ,		
2008 to	Social Assessment study	DPEP – Kerala state	World Bank	1.50 lakhs
2014	House to house survey (Phase II) DPEP	DPEP – Kerala state	World Bank	21 lakhs
	Educational Management Information System	MHRD, Govt. of India	Govt. of India	1.60 lakhs
	Pay revision committee analysis	Govt. of Kerala	Govt. of Kerala	1 lakhs
	Health Care Provider Study – Kerala	State Aids Cell	DFID, UK FHI, Bangkok	7.13 lakhs
	Anticipatory Crisis Management	AIDS cell, GoK	Govt. of Kerala	1 lakhs
	High risk behavior of HIV/AIDS patients	University of Penang, Malaysia	UNDP	8.40 lakhs
	Status of Small Scale Industries in Kerala	Kerala Bureau of Industries Promotion	Govt. of Kerala	1.80 lakhs
	Cadastral mapping of Kozhikode corporation	Kerala Water Authority	Japanese bank for international co-operation	35 lakhs
	Status study of Coir Industry in Kerala	Coir board	Industries department, Govt. of Kerals	5 lakhs
	Cadastral mapping of Trivandrum city	Kerala Water Authority	Japanese bank for international co-operation	42 lakhs
	Epidemiological Modeling of Chicken gunya	National Virology Inst. Pune	National Virology Inst. Pune	3.50 lakhs
	River Mapping and Sand auditing of Pampa river	Disaster management cell, Govt. of Kerala	Revenue Departement, Govt. of Kerala	15 lakhs

Departi	ment of Environmental Science			
2011- 12	Sand auditing of Vamanapuram river, Kerala	Revenue dept., Govt. of Kerala		9 lakhs (total amount received).
Institut	e of English			
2010- 14	Curriculum for Programmemes/ Courses  Curriculum Development for	SCERT, ASAP, CACEE, Other Universities ASAP		
	Additional Skill Acquisition Programmeme for the Government of Kerala			
	Curriculum Design for Courses	Central University, Kasargod		
	Redesigning M.A. programmeme	Scott Christian College (Autonomous), Nagercoil		
	Curriculum Design	CACEE/SCERT Programmemes		
	Curriculum Design for M.A. Programmeme (Canadian Studies)	MG University		
Institut	e of Management in Kerala			
2008- 09	All India customer survey	State Bank of Travancore		Rs 3,85,000
2010- 11	Feasibility report	Kerala Construction Academy, Ministry of Labour, Govt of Kerala		Rs 2,00,000
	Induction Programmeme	HLL Lifecare Ltd, Poojappura	-	
2013- 14	Management consultant and advisor	Alokin Pvt Ltd, Software Co, Techno park, Trivandrum	-	
	Project advisor	Kerala Institute of Labour and Employment ,Govt of Kerala	-	
	Management Consultant	Association of small and Medium entrepreneurs, Kerala	-	
	ment of Manuscript	T =	T	
2008-09	<ul> <li>Preservation and conservation of Palm-leaf manuscripts.</li> <li>Cataloguing</li> <li>Reading the palm-leaf manuscripts</li> </ul>	Public repositories and Private institutions (Travancore Devaswom	-	
	тапаветры	Board)		

		<b>D</b>	<del>                                     </del>
		Department of	
		Archaeology etc.	
		Ayurveda college,	
		TVM.	
2009-	<ul> <li>Preservation and</li> </ul>	Public	-
10	conservation of Palm-leaf	repositories and	
	manuscripts.	Private	
	<ul> <li>Cataloguing</li> </ul>	institutions	
	<ul> <li>Reading the palm-leaf</li> </ul>	(Travancore	
	manuscripts	Devaswom	
		Board)	
		Department of	
		Archaeology etc. Ayurveda college,	
		TVM.	
2010-	Preservation and	Public	_
11	conservation of Palm-leaf	repositories and	
**	manuscripts.	Private	
	Cataloguing	institutions	
	<ul> <li>Reading the palm-leaf</li> </ul>	(Travancore	
	manuscripts	Devaswom	
		Board)	
		Department of	
		Archaeology etc.	
		Ayurveda college,	
		TVM.	
2011-	<ul> <li>Preservation and</li> </ul>	Public	-
12	conservation of Palm-leaf	repositories and	
	manuscripts.	Private	
	Cataloguing	institutions	
	• Reading the palm-leaf	(Travancore Devaswom	
	manuscripts	Board)	
		Department of	
		Archaeology etc.	
		Ayurveda college,	
		TVM.	
2012-	Preservation and	Public	-
13	conservation of Palm-leaf	repositories and	
	manuscripts.	Private	
	Cataloguing	institutions	
	Reading the palm-leaf	(Travancore	
	manuscripts	Devaswom	
		Board)	
		Department of	
		Archaeology etc.	
		Ayurveda college,	
2013-	Preservation and	TVM. Public	_
14	Preservation and conservation of Palm-leaf	repositories and	-
1 -	manuscripts.	Private	
	<ul><li>Cataloguing</li></ul>	institutions	
	<ul> <li>Reading the palm-leaf</li> </ul>	(Travancore	
	manuscripts	Devaswom	
	тапазепры	Board)	
		Department of	
		Archaeology etc.	
1		Ayurveda college,	
		TVM.	
		1	L

Department of Political Science				
2009-	Consultancy on Survey	Centre for		
10	research	Electoral Studies,		
		Trivandrum		
		Centre for the		
		Study of		
		Developing		
		Societies, New		
		Delhi		
2010-	Adviser and Consultant,	Centre for		
11	Kerala Assembly Election	Research on		
	Study	Direct		
		Democracy,		
		University of		
		Zurich,		
2011	G 1. G	Switzerland		
2011-	Consultancy on Survey	Centre for		
12	research	Electoral Studies,		
		Trivandrum Centre for the		
		Study of		
		Developing		
		Societies, New		
		Delhi		
2012-	Consultancy on research	SIGN, Wayanad		
13	methodology	SIGIN, Wayanad		
2013-	Consultancy on Survey	Centre for		
14	research	Electoral Studies,		
		Trivandrum		
		Centre for the		
		Study of		
		Developing		
		Societies, New		
		Delhi		
Department of Tamil				
2008-	Language Experts&	SCERT,Court,		
14	Translation	other Agencies.		

#### **3.5.2.** University Industry Cell:

The University Industry Cell operates within the University consultancy cell. Some departments in the University of Kerala have an industry interface cell like the Institute of Management in Kerala. The primary responsibility of these cells is as follows:

- 1. Orientation/induction training to industrial persons
- 2. Special lecturers for the students and faculty
- 3. Industry visit of students with faculty
- 4. Creating entrepreneurship competency among students
- 5. Soft skill training for the students by industry experts

#### **3.5.3.** Departments with consultancy:

Among all the departments in University of Kerala, 11 departments are involved in undertaking some major consultancy work, They are Department of Aquatic Biology & Fisheries; Department of Computational Biology;

Department of Future Studies; Department of Environmental Science; Institute of English; Institute of Management in Kerala; Department of Commerce; Department of Oriental Research Institute and Manuscript Library; Department of Political Science; Department of Sociology and Department of Tamil.

# **3.5.4.** Mode of publicizing the expertise of faculty with regard to consultancy:

The University Consultancy Cell helps publicize the services/competencies available in the University to industry. The University publishes an annual newsletter "University Herald" which is also distributed to the industry as well as to research institutions. The display of expertise of individual faculty in the University website is another tool which publicises the expertise of the faculty. With their own academic reputation in the field of specialisation the faculty also attracts consultancy offers.

#### 3.5.5. List of broad areas of consultancy and revenue generated:

This information is provided in the table given under section 3.5.1.

## 3.6. EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITIES

# **3.6.1. Sensitization methods adopted by the University with regard to Institutional Social responsibility**: The University of Kerala has enabled the various departments to carry out the extension activities in areas of their specialisation which will be of benefit to the larger society.

Department	Nature of sensitization methods adopted for extension works
Aquatic Biology & Fisheries	The sensitisation programmemes are envisaged in two paradigms-firstly based on the demand from the society and secondly based on the prioritisation of thrust areas identified by the faculty. For example, the stench emanating from the sea experienced by residents along the coastal belt in Kollam and Thiruvananthapuram districts of Kerala during September 2011 was reported to the Department by the media and the District collector asked the Department to make a thorough investigation on the incident. The researchers collected water sample from the area and identified this issue due to the proliferation of <i>Phaeocystis</i> , a microalga and the foul odour caused by the bloom is attributed to the release of Dimethylsulphide (DMS), a semi volatile organic sulphur compound released by the algae.
Arabic	Translation of documents for common people
Biochemistry	Organization of a community based survey of cataract prevalence, life style contribution and prevention. Epidemiological survey of human cataract, conducted at coastal regions of Trivandrum district. The biochemical testing facility is involved in screening and diagnosis of blood samples among volunteers in and around the campus.
Botany	Establishment and maintenanace of Herbal Garden "Thulaseevanam" in the University Campus and promotion of cultivation and conservation of medicinal plants to students of

	neighbouring schools by supplying the saplings of various traditional herbal plants. The Department also has a well established Herbarium with a collection of over 7000 preserved plant species.	
Communicati on and Journalism	The department facilitates constant interaction between the faculty and the students. This two-way communication is useful in sensitising the social responsibilities. The Communication Club in the department organises discussions and symposia to sensitise the faculty and students.	
Computation al Biology	The department provides sensitization for the faculty and students to social responsibilities through various outreach programmemes like "Haritha" aimed at promoting a large number of activity which aims social responsibility. The central activity of DCB Haritha is Centreed around the concept of 'Green Campus'. Trees for 2100 AD is the flagship project of DCB Haritha. HarithaRathnakaram, the eco-hut ensures that green thoughts are not reserved for ceremonial occasions but a part of daily life. DCB has a rich culture of propagating basic science to society. The department regularly conducts extension activities for school students and common public. Amusing aspects of science, craft, games and green activities are incorporated in the extension programmemes. Experienced science communicators are also invited to conduct the classes apart from the faculties and research scholars of the department.	
Environment al Science	The Department celebrates various days of social importance like the World Environment Day, Ozone Day, Water Day etc. The Department also has a "Bhoomitra Sena Club" which organizes awareness programmemes, seminars, competitions on days of environmental importance, tree planting etc.	
Institute of English	<ol> <li>Awareness Programmemes for protection of Environment</li> <li>Gender Sensitization Programmemes</li> <li>Action research on "Violence Against Women and Girls" in collaboration with college affiliated to the University of Kerala.</li> <li>Action research on "Energy Management in the Household Sector" in collaboration with Energy Management Centre, Thiruvananathapuram.</li> <li>Action research on "Health Problems of Women in Kerala" in collaboration with SAT Hospital, Thiruvananathapuram.</li> <li>Counseling in medical/psychological/legal matters to the students with support from the Centre for Women's Studies on a regular basis</li> </ol>	
Institute of Management in Kerala	The Tourism students of IMK involve themselves and serve during <i>Onam</i> festivals, International Film Festivals, Grand Kerala Shopping Festivals etc. The students pursuing MBA Tourism are allowed to take project work in sustainable and responsible tourism for validation. The students are attached with various Industrial units in the final year as part of their Organisation Study for 30 days. IMK sends the students to various seminars and workshops organised by various government institutions and NGOs which give good hands on experience. The students of IMK offer consultancy to small traders and entrepreneurs on finance and Marketing areas.	

	The faculty members of IMK involve themselves in diverse		
	academic and social activities viz. office bearers of Residence		
	Associations, Cooperative societies, Teacher Associations, Management Consutants, Board of Studies of different Universities		
	etc.		
Library	The students are encouraged to visit the rural libraries to understand		
Sciences	the situation and give assistance to their reorganization. The Department lends assistance for the scientific organization of public libraries and school libraries through students during the period of their study and after the completion of the course. The Department also provides the manpower to Kerala Library Association, the premier association of professional librarians in Kerala for training. The Department also provides information and help in setting up home libraries, digitization of libraries as well as reorganization of existing libraries.		
Oriental Research	To save our heritage and culture, the Department conducts Manuscript Awareness Programmemes, exhibition of palm-leaf		
Institute and	manuscripts, training programmeme for care and preservation of		
Manuscript	palm-leaf manuscript by using the faculty and students. The		
Library	Department organizes an exhibition names "Thalakshara" which exhibits manuscripts of extreme social, scientific and historical		
	significance. It also conducts programmemes aimed at promoting organic food.		
Department	The department provides sensitization programmeme by the faculty		
of Sociology	and students to social responsibilities through various extension activities and outreach programmemes like		
	Exposure Visits		
	<ul><li>a. Community visit- tribal, coastal and slum areas</li><li>b. Visit to Hospital Settings like- Mental Hospital, General</li></ul>		
	Hospital, Palliative Care Unit etc		
	<ul><li>c. Visit to Central Prison, Juvenile Home etc</li><li>d. Visit to Care Giving Institutions like – Old age Home,</li></ul>		
	Orphanages, etc		
	<b>Service Providing</b> – the department provides counseling services and stress management programmemes, awareness programmemes		
	like legal awareness, awareness against drug abuse, participatory		
	rural development and tribal development programmemes, conduction of medical and legal camps in the coastal and tribal		
	areas. Distribution of vegetable seeds and seedlings of fruit trees to the poor house holds in the neighborhood panchayat.		
	Sensitization Programmeme for Enhancing Student's Social Responsibility- Participatory Rural Appraisal (PRA), Induction Programmeme, Rural and Tribal Camps etc		
	<b>SANTHWANA</b> – an association named Santhwana was formed involving students and teachers in 2006 which is still continuing to provide solace and share the pains of the less privilege sections, viz, functionally disabled, elderly in poor homes, cancer patients, HIV infected children, orphanages, mental health institution etc		
	Clubs Environmental Club – the students and teachers clean the premises of the department periodically to maintain healthy		

environment, social as well as physical.

**Reading Club**- to inculcate the habit of reading and use of library. This club maintains a notice board and post articles and news regarding relevant issues for public reading.

**FORIS** ( Forum of Researchers in Sociology)- with a view to enhances the interaction between the research scholars and to familiarize their PhD topics, discussions and debates were conducted periodically regarding the methodology and relevant social issues debates etc

Apart from these sensitization programmemes, it may be noted that the faculty of various departments conduct workshops and symposiums in their area of specialization in schools, colleges and other similar forums. This helps to make the next generation relate their social surroundings with cutting-edge research in the realm of Social Sciences, Arts, Pure and Applied Sciences in India and abroad.

#### **3.6.2.** University neighbourhood network:

The University encourages the students to undertake internship programmemes in academic/research institutions as well as companies located in Trivandrum so that the students get hands on exposure to various applications that they get to learn in their classrooms. This also enables the host institutions to get a sense of the quality of the students trained by University and thus make use of the manpower that passes out of the University every year in various disciplines. The University also forges strong relations with its neighbourhood research/academic/industry bodies by organizing events. The University invites the faculty, students and employees of these neighbourhood bodies so that associations can be appropriately developed. To ensure that the students are sensitive to the society around them, they are encouraged to interact with the local self governing institutions like the gramapanchayats situated in the vicinity of the University and their homes. This is done to understand the needs of the society and co-operate with the Grama panchayat and the people in the locality to see how the knowledge of the students along with that of the local people can be utilized to develop social and scientific solutions to these problems.

For instance, establishment of waste management unit in the Attipra-Sreekaryam Panchayat is an outcome of such an initiative. The students are also encouraged to be senstivie to the needs of the vulnerable sections of the society and this is done through arranging frequent visits to old age homes, orphanages etc.

#### 3.6.3. NSS activities:

National Service Scheme of University of Kerala has a volunteer strength of 18500 and 185 programmeme officers. The main thrust of the programmeme has been the following:

- Home for homeless
- Snehanidhi
- Snehathulikkal

- Career counselling
- Life skill education
- Adolescent health issues
- Lecture series on Swami Vivekananda
- Promotion of vegetable and fruit cultivation in University campus
- Environment enrichment
- Anti-ragging campaign
- Blood donation
- Women empowerment
- Palliative care

In 2013-14, the NSS flagship programmeme was Anti-Liquor Campaign in collaboration with Kerala State Excise Department.

#### **3.6.4.** Extension work to empower vulnerable section of the society:

Various Departments of University of Kerala undertake activities to reach out to the most vulnerable sections of the society. The Department of Environmental Sciences as part of DST Women Scientist Programmeme carried out an extension programmeme on empowering coastal women on sea weed cultivation techniques as a means to generate income and acquire a certain degree of financial independence. Similarly, the Department of Aquatic Biology & Fisheries is involved in training and providing technical assistance to fish farmers and women from the Self Help Groups for ornamental fish culture as well as cage culture of brackish water fish. The Department of Future Studies undertook a survey in Kollam district during 2008 on the social impact of the Chikungunya epidemic which included the disability and costing issues of the illness. The survey was done in collaboration with N.S. Memorial Hospital, Kollam, National Virology Institute, Pune and the NGO Population and Health Research Institute. The Department of Economics conducted a Study on Foreign Trade in Principal Agricultural Productions Under WTO Regime with special reference to Kerala. Agricultural Crisis, Credit and Indebtedness of Farmers in Palakkad and Idukki Districts: Findings of a Field Survey. Coconut Economy of Kerala: Findings of Field Survey. Impact of Industrial Clusters on Local Economy: A Study Based on Technopark, Trivandrum. MGNREGA in Kerala: A Study on Socio- Economic Impacts. Disabled Population and Issues of Sustainability of Livelihood. Social Security Schemes and their Impact on Fisher Folk in Kerala. Global Economic Crisis Return Emigration and Economic Consequences in Kerala. NRHM in Kerala: An Evaluation. A Study on the Livelihood and Human Development Status of the Disabled Females in Kerala.

#### 3.6.5. Students involvement in social activities:

There are many extension activities being organised by various department with active participation of the students like, INCULCATE programmeme, Balasastraparishad, Children's Science Congress, Environment Day, Earth science expo, Youth Festivals and Film Festivals and public/student visits to labs and museums. The University students assume the

role of demonstrators for various stalls of government departments including, JNTBGRI, ISRO, GSI, CGWB, AMD, etc during the exhibitions. Engagement in these activities provides great opportunities to students for networking and meeting people that one otherwise would not. This helps in professional development and leadership training. The feedback from students is quite encouraging.

# 3.6.6. Extension activities to complement academic leaning experience:

The Department of Demography organizes a Community Outreach Programmeme in which the members of the local bodies and community leaders are sensitized on the issues related to health. The detailed report of the outreach activities is submitted to the local body and government for their actions and interventions.

Department of Geology has taken up projects on social issues like fluoride problem in drinking water in Palakkad district. The Department has also carried out surveys to identify drought prone areas in different parts of the state. As part of the Golden jubilee celebrations a Panchayat in Kollam district was adopted for resource mapping using GIS techniques.

Department of Botanystudents with the help of a curator are maintaining a tree register of the campus which enables them to enhance their knowledge on taxonomy as well as improve their awareness of the rich biodiversity of the area.

The Department of Aquatic Biology & Fisherieshas been actively involved in monitoring water quality and fish stock of Vellayani freshwater lake of Kerala.

The Department of Political Science has a Survey Research Centrewhich encourages students in collecting as well as analysing the data reflecting the socio-political and economic aspects of Kerala society. Currently they are engaged in undertaking a study on "State of Politics in Kerala"

The Institute of English has been able to empower the under privileged by offering the Communication Skills in English Programmeme for rural students in Thiruvananthapuram District. Training Programmeme for School Teachers in Kerala in collaboration with SSA.

Institute of Management in Kerala has been organising a Management Meet-MANIA every year which provides a platform for management students in Kerala and outside to showcase their talents in various fields. These activities help the student to improve their practical knowledge and experience, communication skill, adaptability to socio-environmental conditions, organizational skill, community involvement, crises management ability, civic sense, commitment to nation building, and leadership quality.

It may also be noted that a "Bhoomimitrasena" club is actively functioning in different departments and engaged in campus cleaning, planting trees and maintaining a Green Campus.

#### **3.6.7.** Community participation in outreach activities:

The University encourages various departments to undertake lab to land initiatives with the basic premise that the true value of research can be judged only from the benefit that it renders to the community. In this regard, some of the noteworthy initiatives that have been taken up relate to Community Outreach Programmes in which people from nearby areas are invited to discussion forums in various departments. Here they interact with the Department faculty and students on issues that they face in areas relating to health, education, drinking water, employment opportunities etc. The department then along with these communities draws up action plans for specific issues and then encourages the local self-government to undertake activities that can effectively redress those issues. One good example of a community outreach initiative of University was undertaken by the Department of Future Studies. The Department was involved in a focus group discussion for a social assessment survey in connection with the District Primary Education Programmeme (DPEP) among the illiterate tribal people in Waynad and Idukki Districts. The survey was conducted to know the attitude towards school education and the problems faced by them for enrolment of their children in schools. The involvement of the tribal community in the FGD was highly encouraging and their involvement was very much sincere. Institute of English students are involved in Social awareness regarding environment, creating awareness about Gender equality, Communication Skills and Human Rights.

#### 3.6.8. Awards received for community activities:

University of Kerala won the 2013 State level best NSS volunteer award and 2013 Indira GandhiNational NSS Award.

#### 3.7. COLLABORATION

# 3.7.1. Impact of collaboration activities undertaken by the University:

Collaborative research has enabled the University to bring excellence in academics by opening up opportunities to update ourselves with broad visions from other schools of thoughts. Collaborative research also helps to get access to expensive contemporary technology which is otherwise a serious constraint to us. Such aids in various kinds of analyses resulting from collaborative researches help us to overcome the lack of sufficiency of funds.

Through the collaboration with reputed R&D Organizations and Educational Institutions, students and faculty get exposure to highend research problems and receive valuable guidance from reputed scientists in finding an appropriate solution through active research. As part of the research collaborations the students could publish their research outcomes in reputed international journals and conference proceedings. It also pave the way for the prospective students to do summer internship at various research organizations under the guidance of reputed scientists.

It is also interesting to note that the Alumni Associations of various departments have played a pivotal role in encouraging their current research organizations to collaborate with the University and provide research exposure to the students.

Some of the examples of the benefits from collaborative activities are listed below:

- 1. Department of Communication and Journalism in collaboration with Doordarshan, AIR and VICTERS Channel (under IT Mission of the State Government) resulted in production of programmemes targeting school and college students in the State. These productions are available in You-Tube for global consumption
- 2. The faculty members of Department of Library and Information Sciences collaborate with other Departments of Library and Information Science in the state and at the national level in the design of curriculum and syllabi. They also collaborate with public, academic and special libraries in the state in the organization of various programmemes like seminars, conferences and workshops. As a result, the Department is held in high esteem by the library community in the state.
- 3. The first visible and formal collaboration of Department of Political Science was initiated in 2004 when a Fulbright Partnership Programmeme with Claremont Graduate University, USA was signed. The students and teachers of the Department stood to benefit with this programme, which lasted until 2008. Since then the Department has had a series of academic collaborations with Universities in USA, Australia, Canada, Poland, Thailand and Romania. The Department of Political Science is visited by several international students and teachers. The academic exchanges had helped the students immensely. The students of the Department are exposed to the rigour and quality of international education. The cultural value of these exchanges too has a great influence on students.
- 4. Collaborative research with Regional Institute of Ophthalmology on the prevalence of cataract vulnerable sections of society was carried out. This work was carried out with financial support in the form of SARD, KSCSTE.
- 5. Scientific evaluation of a traditional rice variety, Njavara (Oryza sativa) was carried out in collaboration with NIIST. Thiruvananthapuram for its anti-inflamatory properties. This work would scientifically validate the widespread practice of its application in Ayurveda.
- **6.** Application of marine biomolecules and biocomposites in tissue engineering of pharmacological importance.
- 7. Collaboration with School of Chemical Sciences, MG University, Kerala. Development of Novel nanoparticles for anticancer applications.
- **8.** Collaboration with NIIST and SCTIMST, Trivandrum.
- **9.** The University of Kerala is an IMC Member of the Shastri Indo-Canadian Institute, New Delhi.

- 10. One faculty from the Department got selected for collaborative visit to Nottingham Trent University, UK as part of FLAIR programmeme, Government of Kerala.
- 11. Visit of research scholar from the department for completion of part of the Ph.D. work University of Connecticut, USA (Dr. Niranjana Maulik, 2007-10). This collaboration has resulted in substantial linkage between the two institutions.
- 12. Research collaboration with institutions like Regional Research Institute (RRI), Rajiv Gandhi Centre for Biotechnology (RGCB), Regional Cancer Centre(RCC) AND CENTRE FOR Tiber Crop Research Institute(CTCRI), Thiruvananthapuram has been carried out
- **13.** ELT Centres has Linkage with Canterbury Christ Church University, Kent, U.K.
- **14.** Indian Association for Common Wealth Literature and Language Studies (IACLALS)

#### 3.7.2. Benefits from these collaborations:

Curriculum development	Through research collaboration the department could identify the key areas or topics so as to help students do high-end research. Consequently, new courses and topics are included in the curriculum during the syllabus revision to equip the students with latest knowledge for getting actively involved in high-end research. Canadian Studies Curriculum Design, ELT Curriculum Design with Christ Church University
Internship	The linkages with other research institutes offer opportunities for the students to be selected for short training programmemes in those institutes. These programmemes, in turn, help them to get hands on training and experience on various research methodologies, sophisticated equipment and research type experiments.
On the job training	Experts from various organizations occasionally give technical training to our students through which they get exposure to the recent research trends as well as hands on experience in using various tools for scientific computing. Script writing, editing, teaching ELT for the public.
Faculty exchange and development	The linkages with the stakeholder agencies, research institutes and other educational institutions will help in exchange of faculty. This will be of great help to them in furthering their knowledge base and expertise in their respective fields. The involvement of the faculty of these external institutions also promotes our academic activities to a large extent.

Research	The linkages with other research institutions help the Department to gain knowledge as well as undertake research in latest areas. Exchange of faculty brings about an environment conducive to active research work in various fields. Our students and faculty are able to utilize the sophisticated and modern equipment in these institutions. Access to rich scientific data base is another outcome of such linkages. SICI Funding for Canadian Studies
Publication	The faculty members of the Department regularly publish research papers in national and international research journals. A number of popular articles are aimed at popularising science. In this way the research findings of the Departments are made available to the science community in the field.
Consultancy	Many of the members of the teaching faculty frequently visit other academic and research institutions colleges, schools etc. to deliver lectures on advanced topics related to the curriculum. Such linkages help the students of these colleges and schools to benefit from the expertise and knowledge of the University faculty.
Extension	The collaborations that the University has had with other research institutions has resulted in the University faculty being invited to these institutions to give lectures and sometimes even take courses for an entire semester. The academicians from these research institutions also visit the University and conduct seminars/workshops for the students of the University. Certificate Courses for General Public
Student placement	The linkages of the Department with other research research/academic institutions and industry bodies help the students in acquiring job placements after their studies. Students also get opportunity to pursue their PhD/post-doctoral work thanks to the networks established.
Any other (specify)	Nil

#### **3.7.3.** MoUs with institutions:

Currently there are five MoUs that various Departments have signed on behalf of University of Kerala. Department of Computational Biology has signed a MOU with Indira Gandhi National Open University (IGNOU) to launch a distance education programmeme in bioinformatics. The course material and video CD's have been produced but the program has not yet been launched. Department of Demography has signed a MoU with Registrar General India for setting up a Census Workstation. The Department of Oriental Research Institute and Manuscript Library has signed a MoU with National Mission for Manuscripts, New Delhi, which has helped the department to conduct seminars and workshops for enhancing research and

development activities of departments. The Department of Optoelectronics has signed a MoU with Karlsruhe University of Applied Science, Karlsruhe, Germany and signed an agreement with Institute of Information Science & Sensorics which envisages students and faculty exchange. The Department also signed a MoU with R.T.T.C., B.S.N.L., Trivandrum based on which they are jointly conducting an Advanced PG Diploma in Communication Engineering. The Department of Zoology has a MOU with Zoological Museum, London for the Research in Amphibian Biology of Western Ghats. ELT Centre signed MoU with Canterbury Christ Church University, U.K. MoU with State Institute of English, Kerala.

# **3.7.4.** Industry interaction resulted in establishment of lab:

Based on the industry interactions that they had, the Department of Demography has established a Census Workstations and the Department of Hindi has established an Audio-Visual Language Lab.

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#### **List of Annexures**

- 1. Project sponsored by UGC and other Agencies
- 2. Details of Research Projects
- 3. Details of Linux Cluster

# CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

#### INFRASTRUCTURE AND LEARNING RESOURCES

## 4.1 Physical Facilities

**4.1.1.** How does the University plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The University of Kerala has two campuses. The Senate Hall Campus is situated in the heart of the city and there is a bigger campus in Kariavattom about 12 kms from the Senate House Campus. Over the last three to four years, concerted efforts were made to shift all teaching departments situated in the Senate Hall Campus to the Kariavattom Campus so that it could be represented as one full-fledged academic consortium and block.

The Planning Department headed by the Director, Planning and Development (a statutory post as per UGC norms) is responsible for the planning process in the University. The plans for the infrastructural development and utilization of the resources of the University are done by the planning wing. It includes mobilizing, administering Plan funds from the State, UGC, Sponsoring bodies like Department of Science and Technology, Department of Defence, Department of Bio-technology, Ministry of Agriculture, Ministry of Health and Family Welfare, Indian Council of Medical Research, Indian Council of Agricultural Research, Indian Council of Social Science Research, Council of Scientific and Industrial Research, Kerala State Council of Science, Technology and Environment. All the works related to plan projects from submission of proposals to various agencies and their execution including construction of buildings and purchase/creation of assets; implementation of programmes and projects, funding of seminars and workshops, administeration of Fellowships, fellowships including Post-Doctoral issuance CERTIFICATE (Department of Scientific and Industrial Research) for claiming customs duty exemption on purchases made by approved scientific research centres of the University, and all plan fund related activities of teaching departments and centres of the University and of each faculty and centres/schemes wholly sponsored with central funds. It also ensures that the procured funds are utilized to achieve its set objectives and forwarding of utilization certificate of the same to the various sponsoring agencies. In addition to these, the wing also deals with the admission of foreign students to various courses in the department/affiliated colleges.

Essentially, the planning for infrastructure and its utilization is at three levels.

- a. Common for all stakeholders like the Senate Hall with a capacity to seat 1600, (800 m<sup>2</sup>), air conditioned senate chamber (213 m<sup>2</sup>) with audio visual facility to seat 150, seminar halls, bank buildings and ATM counter, computer centre (234.00 m<sup>2</sup>), stationery shops, post office (138.00 m<sup>2</sup>), stadium, canteen and cafeteria.
- b. Department-wise infrastructural facilities like smart classrooms, rooms for faculty, library facilities, well-furnished laboratories having state of the art equipment and clean washrooms.

c. Support infrastructure like music theatre, air-conditioned halls at the students centre, hostels, curio shop and transportation facility. Observatory and Manuscript Library are utilized to carry out academic activities.

The **University Service and Instrumentation Centre** (USIC) gives the much needed fillip in terms of not only sophisticated laboratory equipments but also other allied services.

It has been a matter of utmost priority that the teaching departments especially in Science are equipped with state of art equipment in their laboratories. The Departments have very good libraries and other facilities. Most of the departments have computer labs and some departments have language labs.

The University of Kerala emphasizes the all-round development of its students. For this there is a well maintained stadium with facilities to play football, cricket, hockey and a world class synthetic track for athletes and a fitness centre. Badminton court, volleyball court and other such facilities are some of the other infrastructure facilities available. We also let out our Senate Hall and music theatre when it is not used by the University.

**4.1.2** Does the University have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes. We have an active policy for the creation and enhancement of infrastructure. The policy for infrastructure development is based on inputs received from teaching departments and research centres. Mostly, plan funds (non-recurring) are utilized for creation of assets and non-plan funds (recurring) for their maintenance. The bulk of the plan and non-plan funds are obtained from the State Government and through internal sources. To further augment the existing infrastructure facilities and to keep abreast with the fast changing trends in teaching technology and as part of its Platinum Jubilee endeavours, the University implemented many academic and development programmes. The establishment of the Platinum Jubilee Academic Complex in connection with the adoption of the School System is a major initiative in this direction. The Academic Complex is expected to house the various schools with all infrastructure facilities which would facilitate the fulfillment of the cherished goals of the school system. Faculty rooms, lecture halls, seminar halls, rest rooms, library facilities etc. would constitute this complex. The school system is to assist the University to move in tune with the emerging global trend of internationalization of education.

As part of infrastructure assessment, a team of University officials under the Pro- Vice Chancellor, visited all the teaching departments and made an on the spot assessment of the needs. Based on the report, a suitable work plan was formulated in consultation with the engineering unit. Centralized purchases of office furniture, computer, library racks were also made.

The Special Assistance Programme (SAP) of UGC is implemented in eleven Departments. They are Political Science, Economics, English, Geology,

Mathematics, Commerce, Aquatic Biology, Botany, Zoology, Statistics and Bio Chemistry departments. This has qualitatively improved the teaching and research programmes in the departments.

The University has installed the Campus Computational Facility (CCF) mainly for the benefit of the students and other stakeholders.

The University has provided **Smart Classrooms** in 36 teaching departments so as to promote interactive learning among the students. The University has equipped the Smart Classrooms with state of the art infrastructure like smart boards, LCD projectors, multimedia devices etc. Video conferencing facility for all the Schools is also put in place.

The **Kerala University Library** introduced Automated Transaction System in the circulation section. Check in and check out of library books are done using computers. A database of all the members has been created and this is updated daily. Borrower's tickets are automatically generated. Smart card system is also implemented for various membership categories like those for eminent scholars, research scholars and teachers. Liability reports on the student members are automatically generated and sent to various colleges.

Document acquisition work like ordering, receiving, accessioning and reporting are fully automated and all the technical works except generating of card catalogue is done using the library software. Rare and valuable documents of the Kerala Studies section have been digitized and properly indexed for ease of searching and retrieval. A high end Digital Library Server is installed in the library for archival purposes. An MoU is signed with the UGC for uploading the Ph.D theses in Shodhganga, the national theses repository and the University library is now regularly uploading thesis to the repository.

Students are encouraged to have laptops & Wi-Fi connections are also available. Open course materials and video lectures from different universities worldwide are also available in the departments.

Filtered and cooled drinking water is available in departments and at vantage points in the two campuses of the University.

The Academic Staff College run by the University is ranked first in India by the UGC for its performance. The inauguration of its new guest house for participants is another important step to ensure quality in education facilities provided.

The high mast lights, landscaping, interlocking of the ground on the ramp side of the Senate hall by corbels adds to the beauty of the campus.

The inauguration of the additional floor above the Department of Computational Biology and Bio-Informatics and the ongoing construction works to provide extra space for the departments of Archaeology and Environmental Sciences are efforts to achieve the objectives of quality education.

**4.1.3** How does the University create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

Constant funding through Plan and Non-Plan grants to the various departments especially under the head 'Infrastructure and Laboratory Developments' provides the right impetus in enhancing research facilities. University Service and Instrumentation Centre (USIC) is an organ of the University serving the departments in this direction. With the equipments and related technology from Promotion of University Research and Scientific Excellence (PURSE) programme funded by the Department of Science and Technology to the tune of Rs. 9 crore being purchased by end of this year (purchases already made for Rs. 6 crore) and other equipment for USIC worth Rs. 2.49 crore from State Plan Grants being centrally pooled and located in PURSE building, the dream of the University in making it a Scientific and Research Hub became a reality. Almost all teaching departments have computer lab facility.

Introduction of the **Research Portal** has improved the working environment for both the research guides and students. This has made the procedures involved in the registration, conduct of Ph.D and award of Ph.D Degree hassle- free and student-friendly. Automation of the procedures involved in Ph.D registration has helped in providing unique ID numbers to each scholar, which in turn, has helped to evolve an effective online tracking system. Efforts are underway to disburse fellowships & House Rent Allowance (HRA) to the scholars through e-payment. Automation has helped in reducing the time lag between submission of application and conduct of Doctoral Committee and issuance of Ph.D registration orders. It has helped in developing a favourable environment for research scholars to get all information regarding their research details at the click of a button.

The Information Technology section is looking after the automation works of the Kerala University Library. Since its inception, the section is maintaining a steady and firm growth to attain the target of a fully automated library system at the Kerala University Library. All the sections are connected using LAN. Bibliographic details of all library documents are created using library software Libsys-4. All the documents have been bar coded. Separate database for United Nations publications, World Bank collection, Ph.D theses, bound volumes of periodicals, exclusive collections on women etc. have been created. Bibliographic details of all the library documents are available through Online Public Access Catalogue (OPAC).

Kerala University Library is well equipped to access and share information available in any part of the world through internet. Kerala University Library Net Information Centre which was inaugurated in August 2002 is an important Internet Centre established to meet the fast changing information needs of the members. Faculty can now access more than 12,000 E-Journals provided as part of the UGC-Infonet Consortium. Electronic versions of all the publications from World Bank E-Library and United Nations are available in the centre. A very

good collection of E-Books and E-Journals purchased by our University by utilizing the special grant from the Government of Kerala is also made available to the users through this centre. Major research tools like Chemical Abstracts, IEEE Explore, LISA, ProQuest Dissertation Abstracts etc are now available in the centre. 25 computers and 2 laser printers are installed in the centre.

An IBM server is used for hosting the library software applications under the network environment, and about 40 personnel computers are linked to the server in different sections of the library.

The library website http://www.kulib.in is used to publicize the library activities and the library services. The Web-OPAC link given in the website gives details of library documents, its availability, status of reservation, and expected date of return. The campus library is open for 16 hours from 8 a.m. to 12 p.m. and all efforts are being made to make it work 24 hours.

A massive modernization programme of the Kerala University Library has been envisaged of which Phase-I with a total expenditure of Rs. 3 croreis completed.

Administrative sanction has been given to the following projects and these are now on a fast track basis.

- 1. Phase-II implemented **modernization work of Kerala University Library** with an allotment of Rs. 6.5 crore.
- 2. **Vertical extension of the Kerala University Library** at Kariavattom Campus with Rs.1.5 crore allotted for new building.
- 3. Rs. 1.5 crore allotted for the **renovation of Kerala University Library** at Kariavattom Campus.
- 4. Vertical extension of Golden Jubilee Library building at Kariavattom campus at a cost of Rs. 2 crore.
- **4.1.4** Has the University provided all departments with facilities like office room, common room and separate rest rooms for women, students and staff?

Yes. The University has provided all departments with facilities like office room, common room and separate rest room for women, students and staff.

**4.1.5** How does the University ensure that the infrastructure facilities are disabled-friendly?

For differently abled persons, the University provides facilities like ramps, lift and disabled-friendly toilets. Slopes /ramps are under construction in every building for wheel chair bound students to move in and out easily. The classes for differently abled students are arranged in the ground floor to the maximum extent possible.

- **4.1.6** How does the University cater to the requirements of residential students? Give details of:
  - Capacity of the hostels and occupancy (to be given separately for men and women)
  - ➤ Recreational facilities in hostel/s like gymnasium, yoga centre, etc.
  - > Broadband connectivity / Wi-Fi facility in hostels.

The University caters to the requirements of residential students by providing hostels for both -boys and girls.

The capacity of the hostels and occupancy of students up to May 2014

# For boys:

Name of the Hostel	Capacity of the Hostel	Occupancy
University Men's Hostel	79	79
University Researchers Hostel	108	100

# For girls:

Name of the Hostel	Capacity of the	Occupancy
	Hostel	
University Women's Hostel, Kariavattom	142	182
University Researchers Hostel	137	137
University Women's Hostel, Thycaud	300	300

Apart from the above, **International Youth Hostel** a three storeyed building in the heart of the city, caters to the temporary residential needs of students and faculty alike.

- ❖ Kariavattom Campus has a playground where students play football, cricket and hockey. Gymnasium and facilities for participating in adventure sports are available in the Department of Physical Education which houses a stadium as well. The above facilities are open to all students without any reservation.
- ❖ Our campuses are **Wi-Fi enabled**. The University has finished instaling High Speed Wireless Networking in both the Kariavattom and Senate House Campuses. This has facilitated the completion of the e-governance programme being implemented in the University. Both the campuses are networked in an effective manner taking into account the future developments in the field of technology and communication, thus providing maximum benefits not only to the employees but also the stake holders and the students.
- ❖ Bus facility is available for students who use the campus library.
- Shuttle court, basket-ball court and facilities for indoor games are also available.

**4.1.7** Does the University offer medical facilities for its students and teaching and non-teaching staff living on campus?

Yes. We have **two Health Centres** housed in each campus. Almost all experts in most of the specialized fields render service at these Health Centres.

The Health Centre in the Senate House Campus provides regular medical examination/camps, checkup for students.

The teaching and non-teaching Staff are provided with free medical checkup. Apart from the General Medicine, specialist doctors in specialized areas like dental, skin and gynecology do render their service to employees who come for consultation. Common medicines are given and rest referred for further treatment.

Health awareness camps and counselling for all students of colleges under Kerala University are conducted quite often

**4.1.8** What special facilities are available on campus to promote students' interest in sports and cultural events / activities?

The Department of Physical Education has been providing various facilities to the students of the University of Kerala with the intent of promoting interest among students in sports and games with the University stadium as a hub.

The University stadium situated in the heart of Trivandrum city of is owned by the University of Kerala and is one of the best of its kind in Kerala. The stadium is equipped with a world class synthetic track and facilities for training students in various sports and games events. The Physical Education Department has set up a fitness training centre in the stadium complex equipped with modern body building gadgets. Facilities are available in the stadium for training in Karate, Taekwondo, Boxing and Yoga. The department has engaged coaches to train students in various sports and games events. Moreover, a Sports Hostel functions in the University Stadium complex where students interested in athletics and football are accommodated and expert training provided to them. Apart from the activities in the University stadium, there is another stadium at the Kariavattom campus. The Senate House campus has a Basket Ball court and a Badmintoncourt. The Department of Physical Education has on its payrolls coaches in various disciplines and our students perform exceptionally well at the national level, particularly in athletics which is our forte. Students who perform and secure positions in the University, State and National level are granted grace marks in the University examinations. A world class international stadium is under construction.

The Department of Student Services under the Director of Students' Services organizes a wide variety of cultural activities and other welfare schemes every year. The Director engages the students union and its leaders to take initiative in leadership to conduct various programmes.

# 4.2 Library as a Learning Resource

The University of Travancore was established on 1 November 1937 and the University Library was set up in 1942. It was renamed as Kerala University Library in 1956. The Central Library of the University was shifted to the present building having a plinth area of 65 000 square feet on 8 September 1962. Till the establishment of University of Calicut in 1968, Kerala University Library catered to the information needs of the academic community of the entire state.

The Kerala University Library system at present consists of the Central Library located in the city, the Campus Library at the Kariavattom Campus, 42 departmental libraries attached to different teaching and research departments of the University and three Study Centre Libraries located at Kollam, Alappuzha and Pandalam within the jurisdiction of the University. The study centre libraries serve as extension centres of the University library primarily meant for the students, research scholars and teachers of affiliated colleges. In addition there are separate libraries attached to Research Centres of the University, University Institutes of Technology (UIT), Institutes of Management, Teacher Education Centres and University College of Engineering.

The Central Library of the University meets the information needs of not only the University community but also those of the students, research scholars and teachers of affiliated colleges. For effective functioning, the Library is divided into 12 functional units. They are:

- 1. Acquisition Section
- 2. Technical Section
- 3. Maintenance Section
- 4. Circulation Section
- 5. Periodical Section
- 6. Reference Section
- 7. Documentation Section
- 8. Research Section
- 9. Kerala Reference Section
- 10. United Nations and World Bank Section
- 11. Information Technology Section, and
- 12. Administration Section

The Central Library is recognized as one of the 16 depository libraries of United Nations and World Bank in India.

The University Campus Library is situated in the Central location of the vast academic campus of the University at Kariavattom. The library established in 1978 is the common centre of higher learning for the students, researchers, faculty from University Teaching Departmets, College of Engineering, Academic Staff College, Visiting Scholars who participate in different academic projects and the students of the Distance Education Programme. The library was designated in 2013 as the Research Centre for the Social Science and Humanities disciplines.

**4.2.1** Does the library have an Advisory Committee? Specify the composition of the Committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

The University Library has had an Advisory Committee from the 1970s. The Committee comprises of the Vice Chancellor or his nominee, Selected Members from the Syndicate, Representatives of the staff of the University Library, Heads of Teaching Departments for the University, the Librarian of the Campus Library and the University Librarian. The Committee makes recommendations on matters of library policy including allocation of the budget for purchase. The users of the library are encouraged to offer their suggestions. After discussions, the suggestions which are found to be useful and feasible are recommended to the authorities. All the renovation, modernization activities and introduction of new services are approved based on the recommendation of the Advisory Committee.

In addition, there are three more committees, namely *Library and Publication Committee*, *Modernization Monitoring Committee* and *Book Selection Committee*. Thesecommittees consist of Pro-Vice Chancellor and selected members of the Syndicate, Faculty members and the Librarian. The Library and Publication Committee approves the recommendations of the new programmes to be taken upby the Library system. The Modernization Committee suggests and reviews the progress of the modernization activities of the Library. The Book Selection Committee lays down the norms to be followed for the purchase of document.

#### 4.2.2 Details of the Libraries

#### a. Total area

University Central Library : 65.000 sq. feet Campus Library : 15 000 sq. feet

Department Libraries : 40 000 sq. feet (@ approx. 1000

sq. ft/library)

Other libraries : 2400 (@ 800 sq. feet/library)

b. Total seating capacity

University Central Library : 400 Campus Library : 200

Department Libraries : 800 (@ average 20/library)
Other libraries : 60 (@ average 20/library)

c. Working Hours

University Central Library : 8 a.m. – 8 p.m. (on week days

including second Saturday

2 p.m. – 8 p.m. (Sundays)

Campus Library : 8 a.m. – 12 midnight Department Libraries : 9.30 a.m. – 4.30 p.m.

## d. Lay out of the Library

# University Central Library

Individual reading carrels : Individual tables and chairs for research

scholars

Lounge for browsing and relaxed reading : Yes
IT Zone for accessing e-resources : Yes
Clear and prominent display of floor plan : Yes
Sign boards : Yes
Fire alarm : Yes
Access to differently-abled users : Yes

# Campus Library

Individual reading carrels : Individual tables and chairs for research

scholars

Lounge for browsing and relaxed reading : Yes
IT Zone for accessing e-resources : Yes
Clear and prominent display of floor plan : Yes
Sign boards : Yes
Fire alarm : Yes
Access to differently-abled users : Yes

# 4.2.3 Details of the library holdings

# University Central Library

# a. Print (Books, back volumes and theses)

Sl.	Printed materials	Number			
No.		University Library	Campus Library	Departmental Libraries and other Libraries	
1	Books	324970	20000	483 937	
2	Back volumes of periodicals	41642		12 000	
3	Back volumes of newspapers	850	-	-	
4	Theses	4000		30 000 (dissertations)	
5	Periodicals (Indian)	213	65	300	
6	Periodicals (Foreign)	28		120	
7	Popular magazines	37	28	260	
8	Newspapers	25	14	35	

b. Average number of books added

during the last three years : 11 000/yearNon Print (Microfiche, AV) : 38 microfilms

#### d. Electronic (e-books, e-journals)

Sl. No.	Electronic form	Total Number
1.	e-Books	80,000
2.	e-Journals (Purchased) + open access	50,000
3.	e-Journals (UGC-INFONET Consortia)	12,000
4.	CD/DVD's	1,125
5.	Digital Repository (LIDAS)	6 lakh pages

# e. Special Collection (in the University Central Library)

Sl. No.	Special Collections	Number
1.	Text Books	4,165
2.	Reference Books	10,226
3.	Closed Reference	18,000
4.	Kerala Reference	30,000
5.	Reference Bibliography	2,500
6.	Back Volumes of Periodicals	40,792
7.	Bound Volumes of Newspapers	1,850
8.	General Biography	1,750
9.	Govt. Publications	2,400
10.	Women Studies	1,194
11.	UN& World Bank Publications	2,300
12.	Gandhiana	1,264
13.	Theses	4,000
14.	Personal Collections	2,200
15.	Standards	10
16.	Patents	125

A good number of e-books are also made accessible for the users. The library has separate areas for reference materials and text books sections, career development books and magazines. The previous question papers of different examinations are also collected and organized for reference and reproduction.

#### 4.2.4 Measures deployed by the Library to provide access to the collection

Membership at the Central library is open not only to the students of the University and staff but also to the students and teachers of the affiliated colleges. One unique feature is that membership is open to the general public who at least possess a degree from a recognized University. The general public extensively makes use of this facility. The University Library also offers Eminent Scholar Membership to those who have excelled in their field of activity evidenced by significant contributions. The stipulation that the person should be a graduate is not enforced in this case.

The Library also offers temporary membership of one week duration for those who pay a nominal fee so as to enable them to make use of the collection. There is great demand for this type of membership. In addition, there is institutional membership without any payment. This is done on official request from the institution concerned.

#### University Central Library

a. OPAC : OPAC provided through

intranet and website

b. Electronic Resource Management : JCCC& J-Gate

package for e-journals

c. Federated searching tools to search: J-Gate

articles in multiple databases

d. Library Website : www.kulib.in

e. In-house/remote access to : In-house access through

e-publications intranet

#### Campus Library

The library follows the Dewey Decimal Scheme for classification and Anglo American Catalogue Code for the Cataloguing of reading materials. Manual catalogue is made available for access of the users. The data is processed on **SOUL** system for the time being and plans prepared to switch over to KOHA. Efforts are being initiated to set up the Online Public Access Catalogue.

# 4.2.5 Details of deployment of ICT in the library

#### University Central Library

#### a. Library Automation

All the sections of the library are inter-connected through structured Ethernet networking. LIBSYS-4 software is used for the automated housekeeping operations. OPAC, an electronic version of catalogue is available to the users through different nodes installed at different sections of the library

#### b. Total number of computers for general access:

- 25 Computers for accessing e-resources and general internet services.
- Five Computers for intranet and accessing OPAC
- Three computers for LIDAS, a digital repository of rare and old documents in the Kerala Reference Section.

c. Total number of printers for general access: Six Laser Printers

**d.** Internet bandwidth speed : 4 Mbps

e. Institutional Repository : UN& World Bank

publications

**f.** Content management system for e-learning and Ph.D. Theses: Digitization of the Ph. D. theses has already started. The University

Library has signed an MOU with INFLIBNET for uploading the theses at Shodhganga and have been uploaded.

# g. Participation in resource sharing networks/consortia (like INFLIBNET): UGC-INFONET e-journal consortia

#### Campus Library

Efforts are being made to set up the Online Public Access Catalogue. Initiatives have been taken to make available all the data of reading material in SOUL. Twenty two computer terminals are provided for the general users in IT facilitation Centre and30 computers are expected to be made available for the researchers. Two laser printers are available at present. The Library has Internet connection with a bandwidth speed of 155 Mbps. The library has a direct linkage with UGC – Infonet.

#### Departmental Libraries

Thirty five departments have completed the retrospective conversion of the catalogue. Efforts are on to start circulation activities using computers. At present, there is no uniformity in the software used in departmental libraries. Steps have been taken to automate all the departmental libraries using KOHA, the open source library management software so as to enable networking of the entire library system.

## 4.2.6 Details of services (per month)

The details of services offered by different libraries are given below:

Details		Central Library	Campus Library	Department Libraries and other libraries
a.	Average number of walk-ins	28,500	7,500	30,000
b.	Average number of books issued/returned	7,920	N. A.	13,500
c.	Ratio of library books to students enrolled	24:1	14:1	500:1
d.	Average number of books added during the last four years:	3,780/year	1,541/year	5,500/year
e.	Average number of login to OPAC	10 400+	-	-
f.	Average number of e- resources downloaded/ printed	30,000+	12,000 +	
g.	Number of IT literacy trainings organized	10/year	5/year	2-3/year

#### 4.2.7 Details of Specialized Services provided by the library

University Central Library

# a. Manuscripts

Kerala University library has no collection of manuscripts. An exclusive library, the Oriental Research Institute & Manuscripts Library (ORI& MSS) in the University of Kerala, is one of the leading centres for Indological Studies in India. ORI& MSS is a treasure trove of Indian culture. The library has over 70,000 works in 30,000 copies mainly of palm leaf manuscripts.

#### b. Reference

Reference Services provide reference and research assistance to students, researchers, teachers and public members of Kerala University Library. In- person assistance is available at the Reference section in the ground floor of the library. Librarians are also available through email or phone. On an average, 250 users make use of the services of the Reference and Textbook collection.

## c. Reprography/Scanning

Photocopy facility is restricted to the library documents. It is provided through two reprographic units inside the library. Document scanning service is provided to the users free of charge.

#### d. Inter-library Loan Service

Inter-library loan facility is provided on a reciprocal basis with other libraries and institutions approved by the University.

# e. Information Deployment and Notification

Important notifications are provided through the website of the library, blogs and through social media.

#### f. OPAC

Kerala University Library is automated with fully integrated multi-user Libsys software working with Windows 2007 server. The OPAC facility Libsysis made available through the server to the desktops at the entrance and the stack room for the users. Five computers are provided for accessing the OPAC through intranet. It is also connected to the internet for remote access and has the provision to check the user's transaction details. The users can locate the required documents by using any keyword of the Subject or Author or Title of the document. From the OPAC, the reader can also identify the status of document (whether available in the library or issued out). It allows combination searches using Boolean logic technique (AND or NOT).

#### g. Downloads

The library provides facility for downloading the e-resources and internet sources to its users. The users can either write the downloaded material on the CD or copy in pen drive free of charge or take the print out on payment of nominal charges.

#### h. Printouts

The Library assists the users in downloading information from internet and the digital archive (LIDAS) and printouts are given to those who request for it at a nominal rate. These services are provided at the Kerala University Library Net Information Centre (KULNIC) and Kerala Reference Section respectively.

#### i. Reading List/Bibliography Compilation

Documentation and Information Service section of the library has been bringing out an information product, *Kerala Index*, a quarterly publication of the Kerala University Library from 1984 onwards. It is an index of articles pertaining to Kerala appearing in selected newspapers, popular magazines and journals. The volumes up to 2012 have been published so far. It is a valuable information product for the researchers in the field of Kerala studies.

Kerala University library has so far published 19 bibliographies on various subjects, the list of which is given below:

Sl. No.	Name of the Bibliography	Year
1.	Asan Granthasoochi	1973
2.	Kerala Bibliography	1977
3.	Vallathol Bibliography	1978
4.	Selected Bibliography on Lexicography	1987
5.	Feminism and Literature: A Select Bibliography	1987
6.	Ulloor Bibliography	1987
7.	Kerala Assembly Election, 1987: A Select Bibliography	1987
8.	Information Sources in English literature: A Select Bibliography	1988
9.	Research and Research Methodology: A Select Bibliography	1988
10.	C.V Raman Pillai Gaveshana Dharsakam	1989
11	Ayyappa Paniker: A Select Bibliography	1990
12	Thakazhi (Jnanapeeth awardee) Bibliography	1992
13.	Sahitya Samanwaya Silpi: Dr.K.M George Bibliography	1994
14.	Garjikkunna Kathikan: PonkunnamVarkey Bibliography	1994
15.	Ayyappa Paniker: Kaviyum Niroopakanum: Bibliography	1999
16.	Basheer Granthasoochi	2001
17.	Dr. V. S. Sarmayude Rachanakal: A Bibliography	2001
18	Sooranad Kunjan Pillai: Bibliography	2001
19.	Sugathakumari Sahityasoochi	2013

The compilation of M. T Vasudevan Nair (Jnanapeeth awardee) bibliography is going on and is expected to be published at the end of 2014.

#### j. In-house/Remote Access to e-resources

In-house accesses to e-resources are given to the users at the Kerala University Library Net Information Centre and at the Kerala Reference Section. At present, there is no provision for remote access to the e-resources of the library. But the library is planning to provide remote access to e-resources through proxy server.

#### k. User Orientation

User orientation is given regularly to the members of the library at the time of admission. User orientation services are rendered to the members of the library in various sections of the library as and when required. User orientation programmes are conducted for the students from various institutions when they visit the library. A guide book containing all the information including library rules, information products and services are given to the members of the library at the time of taking membership.

#### 1. Assistance in Searching Databases

Trained staff at the Kerala University Library Net Information Centre and at the Kerala Reference Section help the users in searching the databases.

#### m. INFLIBNET/IUC facilities

Kerala University Library is a member of INFLIBNET identified in the first phase.

# Campus Library

Ready reference and Long range reference services are provided in the library. User guidance to search for career development and competitive exams materials are also provided.

Reprographic Service is carried out during the normal working hours (10 a.m. -5 p.m.). Display boards are set up for announcement, notifications and academic initiatives. New arrivals are displayed in the library and other libraries as well. Exhibition of all the materials added during the year is also organized for two weeks

Orientation programmes are conducted periodically to ensure optimum utilization of different materials. Every effort is taken to introduce and guide the users to access the databases.

# 4.2.8 Details of the annual library budget and the amount spent for purchasing new books and journals

#### University Central Library

Year	Library Budget (2013 – 14) Books and Periodicals	Total Amount (Rs)	Amount spent
	Plan fund	12,00,000	12,00,000
2013 2014	Non-plan fund	50,00,000	50,00,000
	Phase III Modernization of University	1,25,00,000	1,25,00,000
	Library (e-books and e-journals)		

## Campus Library

An amount of more than two crorewas allocated for Campus Library during 2013-2014. Rupees 3 lakhs from the non-plan and 15 lakhs from the lan fund were allotted for the purchase of books and periodicals (including e-journals). An additional amount of Rs.75 lakhs was granted for the purchase of books.

Year	Fund	Amount	Amount spent	Total
		sanctioned		
2013-2014	Plan	90,00,000	89,99,964	02 40 064
	Non- Plan	3,50,000	3,50,000	93,49,964

#### **Department Libraries**

The amount spent by the Departmental Libraries during 2013-14 is Rs.1,22,32,000/-

# 4.2.9 Initiatives taken by the University to make the library a 'happening place'

#### University Central Library

Documentation Section, UN & World Bank Section and Kerala Reference Section regularly organize exhibitions of books on various occasions. A few programmes organized by the Library are:

- Exhibition of rare books
- Exhibition of UN & World Bank collections
- National Library Week Celebrations
- Reading Week celebration
- Function to felicitate civil service toppers who are members of the library
- Functions to felicitate prestigious award winners in the field of literature along with exhibition of their publications.
- Eminent Scholar membership scheme for prominent literary figures
- Introduction of smart card system for Research Scholars and Faculty members of the University and affiliated colleges.
- Frequent user education programmes on e-resources

#### Campus Library

The University of Kerala allotted Rs.93 lakh for the purchase of books, journals including e-journals which was totally utilized for the year itself.

To make the library a Centre of attraction for researchers, an additional Lab for e-learning for Researchers was sanctioned with an amount of Rs.11 lakh.

The Campus Library was elevated as a Research Centre for the Social Science and Humanities disciplines.

The construction work of vertical extension of the library building (two more additional floors) costing Rs.2.9 crore is under way.

The University has extended the time of functioning of the Library up to 12 midnight.

Facility for general reading was extended with more furniture. The IT Labs were equipped with additional computer chairs. Book shelves and display racks were added according to the requirement.

Fifteen computers were purchased.

Inverter was installed for overcoming the power supply failure.

An additional 5 KVA UPS was purchased for the new lab.

Wi-Fi connectivity was extended to the library.

#### Department Libraries

Steps have already been taken to automate all the Department Libraries.

The Departments are given special assistance for their modernization including development of the Libraries.

Department libraries are given access to Infonet E-Journal Consortium through Campus LAN.

# 4.2.10 Strategies used by the library to collect feedback from its users

#### University Central Library

For getting feedback and suggestions from the users a suggestion register is kept in various sections of the library. Users can also provide feedback through the website and library blog. After analyzing the suggestions from the users proper strategies are formulated to improve the services and collection of the library.

# Campus Library

Evaluation on the functioning of the library and service are received from the periodical meetings with the representatives of the students, teachers, employees and researchers.

The suggestions and recommendations for reading materials from the users are also taken into account.

The response from the HoDs and faculty members on material selection are also encouraged and steps are taken to act accordingly.

# 4.2.11 Efforts made towards the infrastructural development of the library in the last four years

- Periodical Section, Maintenance and Reference Sections were renovated and air conditioned.
- Established an air conditioned room for digitization of rare books.
- Installed 25 computers and accessories for providing e-resource services for the library users.
- Renovated and expanded the Kerala University Library Net Information Centre
- Constructed an additional floor exclusively for Research scholars.

In addition, the following programmes are going on:

- Digitization of Ph. D. theses
- Facilities and services for physically challenged and visually impaired
- Introduction of RFID and Smart Card system
- Retro conversion to Dewey Decimal Classification and installation of KOHA, the open source integrated library management system.
- Library management system.

## Campus Library

The University is processing proposals for the execution of the following works:

- Expansion of the available Reference Section annexing the adjoining open space also to accommodate the Centre for Career Development.
- Equipping the Research Centre in the Campus Library with required furniture, seating for researchers, display racks for theses and back volumes of periodicals.
- Enclosure for technical section and for keeping the materials that are being processed.
- Development of the Periodical Section with standardized tables and chairs.
- Half-height partition for areas of reading of newspapers and periodicals.
- Beautification of the entrance, front area, garden and lawn.
- Painting and repair work of the Library building.

# **Electronic Resources in Kerala University Library**

The volume of scholarly content is increasing day by day with various subject areas. For any research/academic library the ease and time required to access a piece of information has become very critical. The main aim of our library is to provide the right information to the right user at the right time. Kerala University Library assists our users with various products and services such as e-journals and e-books in addition to our printed information sources which help them meet the information needs.

The electronic resources of Kerala University Library include UGC-INFONET digital Library Consortium provided by INFLIBNET and various other bibliographic databases, full text e-journals and selected e-books from various outstanding publishers subscribed by the library. The members can access our electronic resources from the IT Section of the University Library, Campus Library and from various department libraries. The sites that can be accessed include:

#### **Indian Journals.com**

Applied Science & Technology (18 Major Journals) Business Economics & Management (16 Major Journals) Library and Information Science (8 Major Journals) Social Science (17 Major Journals)

# **ProQuest Dissertations & Theses**

http://search.proquest.com

## **ProQuest Research Library**

http://search.proquest.com

# **LISA-Library and Information Science Abstracts**

http://search.proquest.com

#### **Chemical Abstracts-SciFinder**

https://scifinder.cas.org

**Science Direct** 

#### http://www.sciencedirect.com

In addition to this, we subscribe these two subject collections Earth and Planetary Sciences

**Environmental Science** 

# **EEEXplore**

http://ieeexplore.ieee.org

J-gate plus

http://jgateplus.com

# **CMIE** (Centre for Monitoring Indian Economy)

**Economic Outlook** 

http://economicoutlook.cmie.com/User

**States of India** 

http://statesofindia.cmie.com

#### **Journals from Sage Publications**

The following Journals from Sage Publications and their archives can be accessed through our ITSECTION along with the Print Version

1.	China report	http://chr.sagepub.com
2.	Studies in history	http://sih.sagepub.com
3.	International studies	http://isq.sagepub.com
4.	Contributions to Indian sociology	http://cis.sagepub.com
5.	Indian journal of gender studies	http://ijg.sagepub.com
6.	South Asian survey	http://sas.sagepub.com
7.	Science, technology & society	http://sts.sagepub.com
8.	South Asia research	http://sar.sagepub.com
9.	Journal of health management	http://jhm.sagepub.com
10.	Human resource development review	http://.hrdsagepub.com
11.	SouthAsia economic journal	http://sae.sagepub.com
12.	India quarterly	http://iqq.sagepub.com
13.	Indian historical review	http://ihr.sagepub.com
14.	Gender, technology & development	http://gtd.sagepub.com
15.	Global business review	http://gbr.sagepub.com
16.	Current Sociology	http://csi.sagepub.com
17.	International Social Work	http://isw.sagepub.com
18.	Journal of Health and Social Behavior	http://hsb.sagepub.com
19.	Research on Social Work Practice	http://rsw.sagepub.com
20.	Dialogues in Human Geography	http://dhg.sagepub.com
21.	Journal of Contemporary History	http://jch.sagepub.com

# http://ebooks.cambridge.org

Kerala University Library has purchased(perpetual access)143 titles from Cambridge University Press.

# http://onlinelibrary.wiley.com

Kerala University Library has purchased (perpetual access) 200titles from Wiley online library.

# World Bank Publications http://elibrary.worldbank.org

Kerala University Library serves as a depository of UN and World Bank publications The World Bank e-Library covers more than 20 disciplines related to poverty, development, and social science including economic and human development, agriculture, infrastructure, health, education, climate change, natural resources, and regional integration. The World Bank e-Library includes:

- World Bank flagship and annual publications
- Data publications
- Regional and thematic series
- Training manuals and handbooks
- Working papers
- Journal articles

#### 4.3 IT Infrastructure

University of Kerala has an IT policy in setting up IT infrastructure, IT enabled services, Network security, open source initiates and computing environments. Most of the buildings, including the hostels, faculty block, academic block, computer centre and the library are connected using a fast Ethernet-switched network. Campuses are Wi-Fi enabled with Internet and elearning facilities. Most of classrooms are networked and equipped with Internet and IT enabled service facilities. Faculty and students can access a large number of online journals and digital resources through the digital library maintained and subscribed by the University. Each student is given a unique username and password, which gives them access to the centralized file and data-sharing system enabling them to archive and share the information internally.

#### **4.3.1.** University IT policy

The University has a comprehensive IT policy with regard to IT service management, information security, network security, risk management, software asset management, open source resources and green computing. The University Computer Centre has the necessary facilities and infrastructure to implement and manage the policies in different areas of IT related activities in the departments in the University. The details are as explained below.

## **IT Service Management**

The policy of IT service management aims to provide minimum standards for activities, input and output for different associated activities to keep the IT infrastructure in healthy condition to ensure an uninterrupted service for 24x7x365 operations increasing the utilization levels. The following are the major steps that make the IT service management policy.

- Attend the service requests urgently and restore the operations immediately to minimize any adverse effect.
- Analyze and find out the root cause of problems and correct the problems so that the faults do not occur in future.
- ➤ Involve the users in the maintenance and implementing corrective steps. This helps users to correct the same faults and practice the correct methods.
- > Study the impact of changes in different associated software modules whenever a change in module configurations is necessitated.
- Follow the standardized methods in all activities.
- ➤ Whenever a new software is introduced, make it work in compatible mode and integrate with the existing system.

#### **Information Security**

The information security policy is intended as a framework to keep the University information safe and secure and to control the access on a need basis. The policy is formed for students, staff, administrators and public. The information policy keeps the confidential, operational and archived information secure, safe, accurate and ready for use any time ensuring the continuity of operation. The following are the major steps practiced in this policy.

- ➤ Only licensed software along with Free and Open Source Software are used for different activities.
- ➤ To protect the information from different internal and external attacks, necessary threat management systems are deployed in desktops, servers and gateways.
- ➤ Regularly updating and using the latest versions of security software and applications.
- > Access to information is controlled at different levels using context, role and user based access.
- > Strong passwords, biometric and token based access controls are implemented for different information storage devices and are changed at different intervals.
- > Security is ensured using encryption methods, digital signatures, etc. during storage and data transfer through networks.
- ➤ Physical access to storage is controlled by keeping the storage in biometrically access controlled tier 3 level data centre.
- The use of different storage media is restricted and controlled.
- ➤ Backing up of data is done at different intervals on a daily and weekly basis depending on the critical nature of the data.

- ➤ Backup is taken in remote location (second campus) to prevent data loss due to fire, flood or other calamities.
- A foolproof disaster recovery plan is implemented.
- ➤ Classes, training and awareness sessions for users about the importance of information security are regularly conducted.
- > The security policy is regularly reviewed and appropriate modifications are implemented.
- Access and use of information that are not expected to be used by any person is prevented.

# **Network Security**

Network security policy is intended to control the access of network resources of the University, prevent unauthorized access to network resources and to prevent any intentional or accidental changes to data. The policy is intended for the use of students, staff, administrators and public. The following are the major steps practiced in this policy.

- ➤ Different security devices are implemented at different levels in the network.
- The roles and responsibilities of users are clearly defined.
- Access to network is controlled using different methods at different levels such as using passwords and IP settings of clients.
- Passwords or network access are changed regularly.
- ➤ The network usage is closely monitored for identifying any possible threats.
- > Access to social networking, offensive and commercial websites are controlled.
- Installation and use of downloaded software is prevented.
- The details of logged in users are checked regularly.
- > Open ports in networks are always kept closed.
- ➤ Unauthorized changing of the configuration settings of the network is prevented.
- > The users are educated about the need for network security and the use of best practices.
- > Security audit is conducted on regular basis to identify possible weak points and to correct them.

#### **Risk Management**

The IT risk management policy enables to identify any possible IT threat and to recover from damages. Risks can be either man made or naturally developed one. The different steps associated with risk management policy are the following.

- The different risks associated with IT are assessed based on data collected from past events.
- ➤ The major risks identified are data loss due to power failure, media failure and security attacks.

- ➤ Technology advancement, implementation faults and capacity shortage are the other major risks associated with IT activities.
- ➤ The risk management is achieved in the University by the following methods.
  - Using redundant power sources such as generators to overcome power failures.
  - \* Replicating data storage in remote multiple locations.
  - **!** Using RAID technology for data storage.
  - Using unified threat management devices and updated security software.
  - Using open source and backward compatible applications and devices.
  - ❖ Testing software and going for dummy implementation before actual software implementation.
  - Keeping the software in well documented manner with sufficient comments - both in hard and soft copies, as per relevant standards.
  - Using expandable type devices in required areas to overcome capacity related issues.
  - Engaging multiple persons and changing their roles in software development and implementation.
  - Conducting regular sessions to identify risks and to design effective solutions.

#### **Software Asset Management**

Software asset management policy is designed to reduce the cost of ownership of software and to increase the level of usage of software asset in the University. The different steps associated with software asset management policy are as given below.

- > Only legal software is allowed for use.
- Legal or copyrighted software are not given for external use.
- ➤ Use of free and open source software is encouraged to reduce the cost of ownership.
- ➤ Software is used as per the terms and conditions of the license.
- ➤ A register for keeping the stock of software is maintained and is updated regularly.
- ➤ Shareware and trial software are used as per the terms of agreement.
- > Regular audit is conducted to ensure the compliance of the terms and conditions.
- ➤ Source code of the developed software is kept well documented as per standards with sufficient comments.

#### **Open Source Resources**

The policy that is followed is to encourage the use of open source resources with a view to reduce the cost of ownership and save limited fund resources. The major steps associated with open source resources policy implementation include the following.

- > Support the use of open resources in education, administration and other activities.
- ➤ Use open source resources in hardware, Web, databases, OS and Software development.
- ➤ Encourage the use of open source resources by conducting regular classes and training.
- ➤ Make available the source code of developed applications for collaborative development and study.

## **Green Computing**

The policy of green computing is intended to conserve the scarce power source available thus increasing energy efficiency. The following are the steps used in this regard.

- Use power saving devices.
- > Use less heat generating devices.
- ➤ Consolidate devices and servers in a centralized manner in data centres.
- ➤ Use LED monitors for computers instead of CRT monitors.
- Reduce the use of paper and use electronic files instead.
- ➤ Conserve energy by switching off computers and other devices when not in use.
- ➤ Use only Energy Star standard compliant devices.
- > Increase the use of recycled materials.
- > Reduce the use of CD and DVD.
- > Increase the sharing of devices instead of individual type using.
- ➤ Use virtualization technology for storage and computing.

#### **4.3.2.** University Computing Facility

University of Kerala has 11 schools, 41 departments, 83 research centres, 35 other centres, one Engineering College, 10 training colleges, 14 UIT centres and 7 UIM centres. Computer facility is available in all centres, departments and administrative units. Computer configuration varies from Pentium through core i7 processors. University office and selected systems in the teaching departments are equipped with Linux operating system. Windows XP/7/8 is other client operating system available. Most of the teaching departments have licensed software as their own such as SPSS, MATLAB, and many.

- All systems for office use have individual configurations.
- ➤ Dedicated computational facility available (eg. Campus Computer Facility (CCF), High Performance Computing (HPC)).

- ➤ All computers in departments, offices and in the campus are working in LAN.
- ➤ Licensed proprietary software is used in selected areas (eg. Oracle server at cash counter and MSSQL in Examination server)
- Around 80 % of the computers are with Internet facility (155 Mbps Internet connection available as the part of NKN), 8 Mbps leased line.
- > Other facilities:
  - 1. In addition to individual computer systems in each department, main campus library and Kariavattom library provide a central computing facility for Internet and online search purpose.
  - 2. A High Performance Computing (HPC) with 120 processing speed is available at Kariavattom campus for the researchers. As part of the HPC, a central computing facility exclusively for researchers is available.
  - 3. A tier three data centre populated with six racks space.
  - 4. Fully Wi-Fi enable campus

## Details of computers and internet connection from various Departments

Sl. No	Name of Department	No. of Computers	No. of Internet Connections
1	Dept. of Aquatic Biology & Fisheries	28	15
2	Dept. of Arabic	7	7
3	Dept. of Archaeology	15	15
4	Dept. of Bio-Chemistry	36	18
5	Dept. of Bio-Technology	7	7
6	Dept. of Botany	21	21
7	Dept. of Chemistry	10	9
8	Dept. of Commerce	17	12
9	Dept. of Communication & Journalism	13	13
10	Dept. of Computer Science	125	125
11	Dept. of Demography	20	4
12	Dept. of Economics	4	4
13	Dept. of Education	9	4
14	Dept. of Environmental Science	9	8
15	Institute of English	5	5
16	Dept. of Futures Studies	50	50
17	Dept. of Geology	6	9
18	Dept. of Hindi	2	2
19	Dept. of History	5	8
20	Dept. of Islamic Studies	12	6
21	Dept. of Law	9	7

22	Dept. of Linguistics	7	7
23	Dept. of Malayalam	7	2
24	Dept. of Mathematics	18	9
25	Dept. of Music	2	1
26	Dept. of Opto Electronics	48	48
27	Oriental Research Institute & Manuscripts Library	7	10
28	Dept. of Philosophy	2	2
29	Dept. of Physics	8	9
30	Dept. of Politics	16	13
31	Dept. of Psychology	11	10
32	Dept. of Sanskrit	1	4
33	Dept. of Sociology	6	6
34	Dept. of Statistics	43	9
35	Dept. of Tamil	9	9
36	Dept. of Zoology	37	37
37	Dept. of Russian	4	
38	Dept. of German	3	3
39	Dept. of Library and Information Science	25	8
40	Dept. of Computational Biology and Bioinformatics	85	70
41	Institute of Management In Kerala	14	12

# 4.3.3 Institutional plan and strategies for deploying and upgrading the IT infrastructure

Upgrading the IT infrastructure involves the following stages.

- ➤ Upgrading the existing servers and desktops to energy efficient and powerful systems.
- ➤ Upgrading the existing cat5 networking to cat6A networking.
- ➤ Increasing the extent of networking using wireless networking methods.
- ➤ Consolidating the servers distributed at different locations to a centralized data centre.
- ➤ Making a centralized control of network activities and implementation of unified threat management systems.
- ➤ Augmenting the IT infrastructure for setting up of campus intranet for digital file flow.
- > Digitizing and archiving the documents for easy storage and retrieval.
- ➤ Making all the examination related activities of the University ONLINE to avoid the use of paper and other stationery.

- ➤ Increasing the WAN facility between the University and affiliated colleges for paperless communication.
- ➤ Inter University connectivity and data protection from disasters.

## 4.3.4 Online teaching and learning resources and Information database/packages

The University provides online teaching and learning resources to the students in departments. The University library provides digital library resources to the faculty and students.

### 4.3.5 New technologies for student's evaluation

The technologies deployed to enhance student learning and evaluation and to effectively make use of new technologies include the following:

- ➤ Increasing the number of computers with Internet connectivity.
- > Setting up of smart class rooms.
- > Delivering teaching / evaluation contents online.
- ➤ Increasing computer awareness among students and teachers through training.
- > Encouraging the use of e-books.
- > Taking steps for issuing question papers online.
- > Use of online methods for test evaluation and result declaration.

#### 4.3.6 IT facilities available to Teachers

The following IT facilities are available in the University for teachers for teaching and research.

- > Teachers can use computers with Internet connectivity.
- > ICT enabled smart class rooms for better teaching.
- Availability of updated research journals in electronic form.
- ➤ Online communication facility with research scholars and foreign reviewers.
- ➤ Online submission facility of research paper to research journals.
- > Online chat / discussion facility with teachers and guides.
- Access to digitized theses with search facility on the topic of research.
- ➤ Cloud computing and high performance facility for research and testing.
- ➤ Online portal for all research related activities.

#### 4.3.7 ICT-enabled classroom/learning spaces

A project for setting up ICT enabled smart class rooms in all the teaching departments of the University was started and the project will be completed during the current financial year. Thirty departments have a smart classroom with all ICT facilities. At present, all department have LCD projectors and other IT resources. The departments are equipped with Internet facility and access to the elearning resources. Common Computer Facilities (CCF) and High performance Computing (HPC) are available to the students. All department libraries, Kariavattom campus library and Central library are equipped with IT enabled facilities.

#### 4.3.8 Computer-aided Teaching-learning Materials

The facilities available for preparing computer aided teaching learning materials in the University include the following.

- All departments are provided with LCD projectors and PCs as part of IT enabled teaching.
- Access to computers with Internet connectivity.
- > Access to latest software.
- Access to experts in different areas of study.
- Easy marketing facility through affiliated colleges.
- Easy distribution of materials through intranet and internet.
- > Servers are available for the teachers use.

#### **4.3.9** Maintenance of Computers

Computers and accessories in departments are maintained by entering into annual maintenance contract with vendors. The infrastructure used in the administrative campus is maintained by the Computer Centre in house. A ticketing system is used for this purpose (http://kucc.keralaUniversity.ac.in). The complaints are registered in the computer centre and technicians resolve the complaints. The components used are purchased through a central purchasing system.

#### **4.3.10** National Knowledge Network (NKN)

The University avails the facility of NKN connectivity. The services are mainly used in teaching departments for knowledge transfer and data sharing. Our two campuses are inter-connected through optical fibre. Separate fibre channels are provided for data, Internet and video. As part of NMEICT, the University has 155 Mbps Internet connectivity in the Kariavattom campus, 8 Mbps connectivity in the Palayam campus. In addition to this, there is also redundant Internet connection provided by other Total Service Providers such as Asianet.

#### 4.3.11 Web Resources

The University encourages the use of online dictionary and educational resources among students and staff. The Internet and Intranet access is controlled by user authentication and authorization system. Academic recourses are available through this networking system. The education enhancing system such as digital library is provided to the teachers and students through Intranet.

#### 4.3.12 Annual Budget for maintenance of computers

Every department is provided with budget provision for repair and maintenance of equipments. In case of emergency requirements, additional budget allocation is made by re-appropriating from less-used budget heads. The budget is available in the audited statements.

#### 4.3.13 Gradual transfer of teaching and learning

Most of the teaching faculty uploads their e-learning materials in the open source environment for the use of students. Teaching departments also make effective use of group mail facilities.

#### 4.4 Maintenance of Campus Facilities

**4.4.1** Does the University have an estate office/ designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

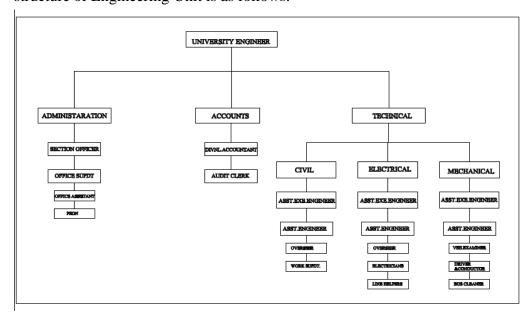
Yes. Kerala University is has an estate office headed by an estate officer.

The main function of the Estate Officer is the conservation of the landed property of the University owned by the Registrar. If any encroachment or other occupancy of the University property is noticed he should take immediate action to bring the encroachment to the notice of authorities of the Revenue department through the authorities of the University and pursue action for the eviction of such encroachments. He should render necessary assistance to the Legal Adviser and Standing Counsel for the University relating to the litigation of the landed properties of the University. He should help the University Engineer to locate the site for any construction of building s etc in the University campus.

It is his duty to verify the title deeds and other documents of the land offered by the managements of new colleges and report to the authorities of the University as to whether the management has unencumbered clear title over the properties.

He should offer remarks relating to the disposal of landed properties of the University either by lease of otherwise and also for the acquisition of landed properties for the University either by lease or otherwise. Overall he should verify all communications received in the University relating to the landed properties and act according to the instructions of the higher authorities of the University.

University of Kerala also has a well-established Engineering wing under the control of University Engineer to oversee the construction of new projects as well as maintenance of existing buildings, class rooms and laboratories. The structure of Engineering Unit is as follows.



Maintaining University campus and buildings is the responsibility of the Engineering department. This department has a very strong structure headed by the University Engineer. The University Engineer is in charge of 3 departments; 1) Civil 2) Electrical and 3) Mechanical. In addition to this we have outsourced some of our new projects to the empanelled Architects for creating more buildings with aesthetic sensibility. The five firms empanelled as Architect Consultant in the University of Kerala are as follows.

- 1. M/s. Iyer& Mahesh
- 2. M/s. Habitat Technology Groups
- 3. M/s. Vasthusilpalaya
- 4. M/s. S square Architects
- 5. M/s. Hamlet

#### I. CONSTRUCTION OF BUILDINGS

Construction of new buildings for the teaching departments under school system, hostels, administrative buildings, buildings for University Institute of Technologies, Teacher Education Centres etc. are undertaken by the Engineering Unit. Some of the major buildings completed within the last five year and ongoing constructions to improve infrastructure facilities of the University are listed below

- 1. New building for the SC girls hostel at Kariavattom
- 2. Vertical extension of the Department of Bio Informatics at Kariavattom
- 3. New women's hostel building at Thycaud
- 4. New substation building at Senate House campus
- 5. New building for science block for analytical facilities at Kariavattom
- 6. New Guest House building for the Academic Staff College at Kariavattom
- 7. Extension to the Golden Jubilee Library building at Kariavattom
- 8. Modernisation of University Central Library
- 9. Modernisation and renovation of University Senate Chamber and Senate Hall
- 10. Vertical extension of the Department of Optoelectronics building
- 11. New building for the Centre for Performing and Visual Arts at Kariavattom
- 12. Extension of the Environmental Science building at Kariavattom
- 13. Reconstruction of toilet blocks for the PG women's hostel building Kariavattom
- 14. Extension of the Centre for Geo Information Science and Technology at Kariavattom
- 15. New building for the IDE/IMK at Senate House Campus

The following projects are approved and the initial works such as planning, estimating and tendering process are in progress

- 1. Platinum Jubilee Academic Complex at Kariavattom
- 2. Platinum Jubilee Seminar hall at Kariavattom

- 3. Amenity centre building at Senate House campus
- 4. Geology museum at Kariavattom
- 5. Building for Centre for Integrative Biology at Kariavattom
- 6. Marine museum at Akkulam
- 7. Rain water harvesting at Kariavattom and Senate House campuses

#### II. MAINTENANCE OF BUILDINGS

The following major maintenance works have been completed/ongoing during the last five years:

- 1. Maintenance and light roofing of the PG men's hostel building
- 2. Maintenance and light roofing of the Research hostel building for Men.
- 3. Maintenance of the Arts Block building at Kariavattom
- 4. Maintenance of the PG women's Hostel building Kariavattom
- 5. Maintenance of the Women's Hostel building Thycaud
- 6. Renovation of the University press building at Senate House campus
- 7. Maintenance of the District Office cum Information centre building at Alapuzha
- 8. Maintenance of UIT building at Adoor
- 9. Maintenance of UIT building Punaloor
- 10. Maintenance of all residential quarters at Kariavattom
- 11. Maintenance of the Physics Department building at Kariavattom
- 12. Additional infrastructure in the old IDE building to accommodate the Institute of Management in Kerala at Kariavattom.
- 13. Purchase of new buses
- 14. Light roofing of the Science block building.

#### III. OTHER IMPORTANT ACHIEVEMENTS

- Construction of special foundation and allied works for NOVA-NANO SEM Lab in the Department of Opto Electronics
- 2. Renovation of seminar hall in the Botany and Optoelectronics Departments.
- 3. Furnishing the new floor and seminar hall in the Bioinformatics Department.

#### IV. OTHER DEVELOPMENT ACTIVITIES

- 1. Dedicated cable for ensuring uninterrupted power supply in Kariavattom campus
- 2. Augmentation of water supply system in Kariavattom campus
- 3. Laying Synthetic track in the University stadium at Palayam.
- 4. Enhancing capacity of 11 KV substation at Kariavattom
- 5. Installing new substation at Senate House campus,
- 6. Installing new transformer in the University Library.

- 7. Providing High mast light at Kariavattom and Senate House campus
- 8. Re-tarring of campus roads at Kariavattom.
- 9. Landscaping in front of the Bio informatics Department building at Kariavattom
- 10. Botanical and Medicinal Garden in the Botany Department.

Facilities provided in the new projects in planning stage are as follows.

## a. Construction of Front Office and Students Amenity Centre at Senate Hall

This building is mainly designed as students amenity centre with facilities like cash counters, seating capacity for 120 persons and 120 'Q' capacity facility for students. The ground floor of the building also serve as the post office, Public Relation Officer's office, multi-purpose shop and Placement Office. The first floor of the building will house the bank, food court and two conference halls. The second floor of the building is proposed with an auditorium to seat 304 persons and Guest rooms. In addition to this adequate toilet facilities, lift, staircase and common areas will be provided in each floor.

#### b. Construction of multipurpose Seminar Hall at Kariavattom

The multi-purpose Seminar Hall is for all the departments in the Kariavattom campus. The proposal is to seat 240, staging, VIP lounge, conference hall, pantry area/mini conference hall and guest rooms. The building will face National Highway- 47 with adequate parking area.

# c. Platinum Jubilee Academic Complex for adopting School System at Kariavattom Campus

The proposal is for accommodating the departments in each school under one umbrella. We have earmarked around 10 acres of land in Kariavattom for this project. Now we are in the preliminary planning stage and have decided to shift these School of Indian Languages in the first phase.

#### d. Geological Museum at Kariavattom.

A Geological museum is proposed near the Geology Department at Kariavattom with facilities like rock garden, exhibition rooms (2 nos), audio visual room, reception, sales counter and store room.

The upkeeping of campus is carried out jointly by the engineering and administrative unit of University. A few campus specific initiatives have been undertaken to improve the physical ambience and are listed here:

## SPECIFIC INITIATIVES UNDERTAKEN TO IMPROVE THE PHYSICAL AMBIENCE

#### 1. Green Environment Campus

The main campus in Kariavattom extends around 350 acres located near Technopark, the largest IT park in the State. The campus is spread out on either side of the National Highway-47. The entrance of the campus is beautifully constructed with a monolithic entrance gate with sufficient security measures. Medians on roads and nearby surroundings are well landscaped.

#### 2. Site Route Map

A site map of the campus along with proper sign boards are provided for easy access to the different departments in the campus.

#### 3. High Mast Light

High mast lights are provided for better lighting during night hours in Kariavattom campus as well as the Senate House campus. This helps the students as well as faculty members to ensure secure campus while using the library facilities late in the night.

#### 4. Botanical Garden

A medicinal garden with valuable medicinal plants as well as a botanical garden is established on the campus with the help of the Botany department. We are proud to declare that ours is a campus with natural greenery with tropical ever green trees of Kerala.

#### 5. Uninterrupted Power Supply

Power supply is maintained on the campus by providing separate substations for the Campus at Kariavattom, campus at Palayam and University Library at Palayam. Qualified electricians are provided for substation duty round the clock to maintain uninterrupted power supply. In addition to this, Diesel Generators and invertors are provided in case of emergency.

We have also installed solar power plant in the University Library building at Palayam. Now it is proposed to install 100kW Solar PV Power Plants in the Kariavattom campus in order to utilize natural energy.

#### 6. Water Supply System

The University of Kerala is taking water from Kerala Water Authority as well as from their own source to ensure uninterrupted water supply. The quality of water is ensured by treating it as per IS standards. We have a well-equipped water testing laboratory in our Environmental Science Department for regular checking of water and maintaining its quality. Sufficient pump operators and plumbers are appointed to take care of uninterrupted water supply on the campus including departments, hostels, staff quarters, round the clock throughout the year. In the Senate House Campus we are depending on the water from Kerala Water Authority; which serves the whole campus, hostel buildings at Thycaud, University Stadium etc. We are planning to construct a rain water harvesting tank in the Senate House campus soon.

#### 7. Street Lighting Facilities

Street lights are properly maintained with the help of campus electricians. Since the Campus library is functioning till 12 in the night, utmost care is taken to maintain street lights properly.

#### 8. Bus and other facilities for students

University buses are mainly for the conveyance of students to safely reach the campus from various parts of the city. The buses are registered as educational institution buses. They are also rented out to students on concessional rates for

excursions and study tours. Currently there are eight buses in service with the Transport wing.

There are light duty vehicles in service in the University for collection and distribution of question papers and answer booklets to examination centre, and valuation camps. Light duty vehicles are also allocated to various departments for their study trips and field tours (In Geology Department a 10 seater vehicle is allotted for collection of samples). The maintenance of vehicles is properly carried out by the Mechanical wing of Engineering Unit.

#### 9. Parking Facility

A large area is marked as car parking facility in the Senate Hall campus to accommodate all the vehicles entering the campus. Kariavattom campus is also provided with ample car parking space to accommodate the vehicles in the campus. Separate parking facility is provided for office vehicles as well as for buses operating in the campus.

#### 10. Solar Facility

We have adopted solar inverters in the University Library at Palayam campus. Now we are in the process of adopting the 100KW grid connected solar system in the terrace area of the Golden Jubilee Building in the Kariavattom campus. It is expected that this project will generate 416 units per day based on the NASA solar radiation assessment. This helps us in exploiting the renewable energy source on the campus.

#### 11. Senate Hall and Senate Chamber

The Senate Hall in the Palayam Campus serves as the venue for many prestigious functions attended by the President of India, Vice President, Prime Minister, Governor and other VVIPs. It has a capacity to seat around 1800 accommodates various Govt. functions as well as University functions and other such events.

The Senate Chamber is the main venue for conducting meetings for various bodies of the University like Senate Meeting and Academic meeting. It has a capacity to seat 165 persons with all interiors, public addressing system connecting in each seat and air-conditioning.

#### 12. Maintenance of Buildings/Campus

Sweeping and scavenging of the University campus is carried out daily by casual labourers. University has around 326 casual laborers for maintenance of campus as well the upkeep of departments.

#### 13. Maintenance of hostels.

Regular maintenance work is carried out in the campus annually for proper upkeep of the hostels. A well established International Youth Hostel is functioning in the heart of Trivandrum city to accommodate students during their visit to the University.

#### 14. Maintenance of Staff quarters

University of Kerala has 160 staff quarters in the Kariavattom Campus. We spent around Rupees One crore last year to renovate all the quarters on the campus.

#### 15. Maintenance of Guest House

University has its Guest Houses in both the Senate House and Kariavattom Campus. Regular maintenance work is carried out in the Guest House annually for proper upkeep of the buildings. The Guest House in the Technopark Campus was taken for accommodating the International students for Semester India Program conducted last in 2014.

#### 16. International Stadium for National Games

For conducting the proposed 35<sup>th</sup> National Games, an International Stadium with all facilities is under construction in 50 acres of land owned by University of Kerala at Kariavattom facing National Highway-47. This stadium serves as the main venue for the coming National Games.

Kariavattom Campus was selected as the venue for the **97**<sup>th</sup> **Indian Science Congress** by the Government of India in 2011. The University campus was also selected as the venue for many events like Indian History Congress, Secular Education & Democracy and Annual conference of Indian National Academy.

**4.4.2** How are the infrastructure facilities, services and equipments maintained? Give details.

The infrastructure of the University owned by the Registrar is maintained by the Engineering Unit under the control of University Engineer. Adequate provision is earmarked in the University budget under the Non-plan and Plan heads to carry out the construction and maintenance of buildings and for other developmental activities.

For some of the major constructions, Architectural and Structural consultancy is outsourced to external agencies such as College of Engineering, Thiruvananthapuram or other empanelled consultants.

Detailed estimates are prepared based on current PWD schedule of rates (Now CPWDSOR) for the maintenance and construction works. The plan and estimates are then submitted for administrative sanction to get approval from various standing committees and the Syndicate. After getting administrative sanction, the University Engineer accords technical sanction for the work after fulfilling all formalities. Work is then tendered by giving wide publicity through the University website, web site of the state Government (e-procurement system of Government of Kerala if PAC more than Rs 25 lakhs) and through publication in popular dailies. At present, online tender system for the sale of document has been implemented to ensure wide publication. Tenders received are then tabulated and processed and admitted by respective bodies according to their delegations provided. The tenders are created in such a way so as to satisfy the conditions framed by the University and the State Government from time to time. On approval of the tenders, a work order is issued to the contractor to commence the work after executing the agreement with sufficient security deposit. During the execution of work, strict supervision and quality control tests are insisted to adhere to the prescribed standards. After completion of the work or as requested by the contractor during the progress of work in case of major works, contract certificates with work bills are prepared by the respective officers, checked and measured by the respective officers and submitted to the University Engineer for

effecting payment. After thorough scrutiny, verification and fulfilling all formalities, if found in order, the bills are passed by the University Engineer and given to the accounts section to release the payment.

The budget figures provided by the University during the last five financial years are as follows.

Sl. No.	Financial Year	Budget allotment (Rs.)
1.	2010-11	80,00,000/-
2.	2011-12	80,00,000/-
3.	2012-13	80,00,000/-
4.	2013-14	1,45,00,000/-
5.	2014-15	1,60,00,000/-

In the case of laboratory equipments, computer peripherals and other equipments the maintenance is carried out through the University Service and Instrumentation Centre (USIC).

In addition to the concerned engineers, qualified electricians for maintenance of electrical power supply, plumber and pump operators for maintenance of water supply, vehicle examiner for the maintenance of vehicles etc. are appointed in the Engineering Unit.

The vehicles are maintained in authorized workshops during warranty period and post warranty vehicles are maintained at workshops where rate contracts have been fixed and MoU signed. The University has also entered into MoU's with authorized dealer workshops such as TVS & Sons authorized dealer for Ashok Leyland and Mahindra.

The repairs of vehicles are attended as per standards of operation procedure.

- 1. A vehicle service request is submitted by the driver to the controlling officer.
- 2. The Controlling officer seeks University Mechanical Engineers recommendation.
- 3. The Mechanical Engineer recommends various jobs to be carried out and certifies the same.
- 4. Based on Mechanical Engineers recommendation detailed work orders are issued to the workshop.
- 5. Post repair vehicle are examined by Mechanical Engineer and bills are scrutinized and certified for repairs carried out.

The other equipment like Lift, Diesel Generators, Air Conditioners and UPS are maintained by Annual Maintenance Contract through experienced outside agencies.

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# CRITERION V: STUDENT SUPPORT AND PROGRESSSION

#### STUDENT SUPPORT AND PROGRESSSION

#### 5.1 Student Mentoring And Support

**5.1.1.** Does the University have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes, University has a good system for student support and mentoring. University departments and affiliated colleges follow the system. For instance, in the university departments, as per the guidelines of the Credit and Semester System (CSS), a course coordinator and staff advisor function for the welfare of students. The faculty guide the students in his/her choice of electives, credit achievements, promote sports and cultural talent of students and provide overall supervision.

Further the MA, MSc and MPhil students work under a research guide for their project work/dissertation. In addition, an orientation class is conducted in the beginning of the programme by the CSS office detailing the course curriculum and career opportunities. An active placement cell is in place under the Head of the Department, which maintains an email group to circulate the opportunities in the field as and when it comes.

In the middle of each semester, the departments conduct mid semester examinations to evaluate the performance of the students and on the basis of the result the course teacher identities the advanced leaners and slow learners and the pedagogic strategies are designed to cater to the needs of all students in the class.

SC/ST/OBC students in the departments are supported through government and welfare department schemes, Remedial coaching, and special coaching for slow learners are the other student support services

The university departments have adopted several measures to promote inclusive academic ambience. Group exercises are a part of academic programmes. In addition, at the time of the induction programme itself different talents of the students are identified and cultural programmes organized to provide opportunity to the students to exhibit their talents. For instance, the Department of Malayalam has two cultural and literary forums, Anukalikam and Thanalmuttam, to stimulate the ability of students in the field of creativity.

The Institute of Management in Kerala (IMK) has a well structured system for student mentoring wherein 10-12 students are assigned to every faculty and they will be looking after the personal and academic counseling needs of the students throughout the study period. Further, the frequent interaction gives opportunity to make changes in the teaching and learning practices at IMK. This has helped nurture a student-lead faculty-guided student support system, where students are always encouraged to take initiative and engage in activities. The activities are planned, budgeted, fund fetched and coordinated by students' effort. The various activities include Management meet called *Mania*, Industrial

visit, Induction Programme, Management games, Placement campaign, Meet a CEO, Publication of placement brochure and Newsletters, seminars and Workshops.

Similarly the Department of Communication and Journalism has maintained a good rapport between the faculty and the students by providing a conducive and uninhibited environment for free exchange of ideas and information. The students can articulate their grievance if any, so that timely redressal is carried out. **Communication Club**, a common forum of the students and the faculty acts as a platform in providing support to foster the talents of the students. Weekly meetings of the Club witness many personality development programmes meant to nourish and hone their skills. Of late, e-mail group for each batch turns into a system of support and mentoring for the student fraternity in the department.

Similar clubs are functioning in many other departments to develop skills and identify talents of students.

## **5.1.2.** Apart from classroom interaction, what are the provisions available for academic mentoring?

Apart from classroom interaction the students have opportunities for one to one interaction with faculty members in respect of preparing assignments, selection of seminar topics, presentation of seminars, selection of projects and selection of elective courses. The faculty promote and motivate the students to write technical papers /reports for conferences/journals. The faculty give special attention to students who are weak in academics after the regular lectures. Many departments invite scholars of repute to conduct invited talks to enrich knowledge in concerned subjects.

Special refresher classes are arranged for attending Kerala Public Service Commission Examinations, ICAR, UGC NET/ARS examinations. Workshops are organized on Thesis writing, Plagiarism and Research Methodology. to instill values of ethics in research. The students in the departments are encouraged to register and participate in all the seminars and workshops organized by the department.

In the Future Studies Department, under the auspicious of Entrepreneurial Development Cell, experts from industry, Kerala State Financial Enterprise (KSFE), Incubation Centre of Technopark and state government officials interacted with the students in order to enrich their entrepreneurial capabilities & other openings in industry and conducted induction sessions for 1<sup>st</sup> Semester M.Tech students to create acces for various academic opportunities available to them.

Fulbright Scholars worked with the Department of Communication and Journalism, thus providing the students the chance to interact with international experts. In 2013 the Fulbright Scholar was a journalist from the *New York Times*.

The department frequently gets the expertise of media professors from North European countries like Sweden and Netherlands.

The Department of Political Science in association with United States-India Educational Foundation, Chennai has been organizing 'Fulbright-Nehru and other Fulbright Fellowship Opportunities' since 2008-09 on an annual basis. In the year 2014 on 11 June, Smt. S. Lalitha Nagesvari (Program Coordinator, United States-India Educational Foundation, Chennai) delivered a Fulbright Scholarships orientation lecture at the Department. Dr. G. Gopakumar, the faculty of the Department has a Fulbright Scholar. In the year 2012-13 Prof. Eric Jepsen, Fulbright Scholar from South Dakota University, USA offered a course for the semester in the Department for the PG students. The Department also had a Fulbright Exchange Programme with the Claremount Graduate University, California, USA. Under this programme there was teacher and student exchange between the Department of Political science and the Claremount University, USA.

**5.1.3**. Does the University have any personal enhancement and development schemes such as career counseling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

Yes, the University has a Finishing School for personal enhancement and development schemes such as career counseling, soft skill development, career-path-identification, and orientation to well-being for its students and the objectives are listed here.

- 1. To identify students with skill or competence gaps, with otherwise good potential to excel and bridge their latent skill gaps
- 2. To address issues relating to employability of students of the University
- 3. Identifying numerous opportunities for employment both inside and outside the country and ascertain the anticipated skill requirements
- 4. Imparting short term courses on add-on skills as well as soft skills
- 5. Undertaking orientation programs, seminars and need based training to bridge the gap between academic content based knowledge and employability skills as envisaged by the industry
- 6. Act as a forum for Industry-Institute linkage that helps in identifying skillgaps
- 7. Coordinate with the Government, Professional bodies and other agencies on associated Finishing School models

The School has activities that help in achieving the above objectives. Such activities would be under two heads:

- 1. For the students of the University Departments /Centres
- 2. For students of affiliated colleges and institutions.

#### **Advisory Committee**

The Advisory Committee meets at least once in a year and evaluates the progress achieved in terms of objectives set. The Advisory Committee has a constitution which is well laid out based on the syndicate decision and as per the UO NoAd DI KUCSPc/2012 dated 09-08-2012 the Committee has the following members with the addition of nominated members

- 1. Pro Vice Chancellor, Chairman
- 2. Dr Gabriel Simon Thattil, Honorary Director, Finishing School and Placement Cell, Convenor
- 3. Director, College Development Council, Ex-Officio Member
- 4. Member of the Syndicate
- 5. Member of the Syndicate
- 6. Two College Principals (One Govt., One Private) Nominated by the Pro-Vice Chancellor.
- 7. Two nominees from the Industry (One from the Public Sector and One from the Private Sector) Nominated by the Pro-Vice Chancellor-
- 8. Two Senior Professors representing the University departments nominated by the Pro- Vice Chancellor-
- 9. Director, University Computer Centre
- 10. Director, Department of Students Services
- 11. Registrar, University of Kerala

The nominated members shall hold office for a period of two years.

#### **Training Programmes**

The School identifies skill deficient students in the final semester of their learning programme under different broad disciplines and impart:

- 1 Soft skill training programme in batches of 50. There are separate programmes in the disciplines of Social Sciences, Humanities, Languages and Sciences. There were four such training sessions.
- 2 Practical need based training at the learners' centre in collaboration with the concerned department/institution
  - 3 Orientation course for freshers (Induction).
- 4 Educative workshops for teachers on issues relating to employability and additional skill acquisition.

So far the School has imparted soft skill training to four batches of students through specialized trainers.

The School is also monitoring the functioning of **Students Skill Acquisition Clubs** SSACs formed in all its teaching Departments with the following objectives:

#### **Objectives**

- 1. Developing soft skills among students
- 2. Enhancing learning capabilities, organizational skills and promoting team work
- 3. Enhancing general awareness among students and supporting them in the choice of a career path.
- 4. Imparting leadership skills

#### **Activities of SSAC**

SSAC may undertake all such activities that help in achieving its objectives. These may include:

Newspaper reading and reporting, GDs, Quiz competitions, Discussions and analysis on events of contemporary relevance, essay writing, student parliament, poster competition, career guidance, debates etc. The list of planned activities is displayed on a separate SSAC Notice Board. Activities are classified into

- (A) Regular short duration activities (under 30 Minutes) (1)Newspaper reading and reporting (2)GDs (3)Discussions and Analysis on events of contemporary relevance on week days during lunch break
  - (B) Weekend activities (1) Debates(2) Quizzes on Saturdays
  - (C) One time TERM events, once in a term(1) seminars(2) workshops

#### **Organization of SSAC**

All Students of the Department are members of the club with one faculty member as the Faculty Advisor. The Department Council nominates the Faculty Advisor who would motivate and direct the students. Member students elect the following members as Executive Committee members for SSAC:

President

Vice president

Secretary

Exe. Committee members, Four members representing different semesters/ courses

The faculty advisor and HoD will monitor the activities of the SSAC.

#### **Documentation and Reporting**

All activities of the Club are systematically documented with themes, photographs and outcome notes. A separate register is maintained for activities and participants in each activity. Annual report of the Club will be forwarded to the Finishing School.

#### Award

The best SSAC would be presented with a Cash Award based on annual performance each year.

University departments offer their own programmes to strengthen these types of activities. Students are encouraged to organize one day seminar/workshops during Environment day, Women's Day, Fish Farmer's Day to develop their managerial skills.

Eminent personalities in these areas are invited for seminars and workshops. to familiarize themselves with the academic activities in the department and interact with the students.

For example, human resource managers from Aqua Feed industry are invited to interact with the students about the career opportunities in the sector in Aquatic Biology Department.

In the Department of Futures Studies, workshops are conducted for entrepreneurial development among students under the auspicious of Entrepreneurial Development (ED) Cell. Experts from different specialization background engaged sessions in these workshops which included the industry, Kerala State Financial Enterprise (KSFE), Incubation Centre of Technopark and state government officials.

Department of Communication and Journalism arranged interactions with senior media personalities with a view to acquire professional traits required for career moulding. The former students of the department who are now manning senior positions in Newspapers and TV channels, advertising agencies and PR departments help very much in conducting such sessions. The students of the department have to produce news based documentaries in the third semester. Some of their productions have won awards in documentary festivals. An alumnus, who is a recipient of President's Gold Medal for documentary production takes the leadership in co-ordinating the production. The department conducts workshops for improving the soft skills of the students. Every year the department organizes 'Media Fest', an exclusive national programme meant for Journalism students from different Universities. In this fest, competitions aimed at testing the journalistic skills of the students are conducted.

**5.1.4.** Does the University provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes. As the fee is nominal, usually students do not avail bank loans. But in some instances, like self finance courses, wherever necessary the department provides adequate documents to students to obtain educational loans from banks.

**5.1.5**. Does the University publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

Yes. The university publishes an Academic Handbook which contains information about the University and its departments, and details of admission procedure, courses of study, eligibility criteria, schedule of course fee, reservation policies, information for international students, hostel facilities available and campus discipline. The University also publishes an Academic Calendar to enable the students to plan the activities well in advance. Further, the Handbook on CSS published by the CSS office also enables students to know about the core and elective courses offered and the rules and regulations.

In the Department of Future Studies for the PGDKM, the application is called for through non-traditional methods such as advertisement through website and group mail contacts.

**5.1.6.** Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./ Diploma / others (please specify)

University has 238 merit Scholarships valued at Rs 2500/- each per annum at UG level and 177 merit Scholarships valued at Rs.3000/- each per annum at the PG level and at the M.Phil level 40 scholarship valued at Rs.750/- each per month on income basis (Annual income should nor Exceed Rs.42000/-) is given.

Distribution of the scholarships as follows.

UG	BA-65	B.Sc-103	B.Com-40	B.Tech-30		
PG	LL.M-3	MLISc-2	M.A.Russian-1	M.A.German-1	M.A-68	Msc-99

**1.7.** What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow etc.)?

#### **UNIVERSITY MERIT SCHOLARSHIPS**

#### **UMS-UG**

There are 238 merit scholarships valued at Rs. 2500/- each per annum. The subject wise distribution of the scholarships is as follows:

## BA.

Arabic	1			
Economics	10			
English	8			
Geography	2			
Hindi	2			
History	10			
Islamic History	1			
Malayalam	7			
Music	2			
Philosophy	2			
Politics	8			
Psychology	1			
Sanskrit (including Nyaya, Vyakarana, Sahitya, Vedanta)	4			
Sanskrit Lang. & Litt. Main	2			
Sociology	1			
Tamil Language	1			
English & Communicative English	1			
Journalism & Mass Communication & Video Production	1			
Malayalam & Mass Communication	1			
B. Sc.				
Botany	14			
Bio-chemistry	1			
Bio-technology (Multi Major)	1			
Chemistry	19			
Computer Science	2			
Electronics	1			
Geology	2			
Home Science	3			
Hotel Management & Catering Science	1			
Mathematics	17			
Physics	19			

Statistics         3           Zoology         14           Biochemistry & Industrial Microbiology         1           Botany & Biotechnology         1           Chemistry & Industrial Chemistry         1           Environmental Science and Environment & Water Management         1           Physics & Computer Application         1           Commerce         15           Commerce & Hotel Management & Catering         1           Commerce with Computer Application         1           Commerce & Tourism & Travel Management         1           B. B. A.         1           B. C. A.         1           B. Ed. (KUCTE)         9           B. Ed. (Training Colleges)         7           LL. B.         4           B. Tech         3	Polymer Chemistry	1			
Biochemistry & Industrial Microbiology  Botany & Biotechnology  1  Chemistry & Industrial Chemistry  1  Environmental Science and Environment & Water Management  Physics & Computer Application  1  B. Com.  Commerce  15  Commerce & Hotel Management & Catering  1 Commerce & Tourism & Travel Management  B. B. A.  B. C. A.  B. C. A.  B. Ed. (KUCTE)  B. Ed. (Training Colleges)  T. LL. B.  B. Tech  Civil  B. Tech  Civil  3  Mechanical Stream - Production Engineering  Mechanical Stream - Automobile Engineering  Chemical Engineering  Biotechnology & Bio Chemical Engineering  2  Electrical and Electronics Engineering  Beloctronics & Communication Engineering  2  Computer Science and Engineering  3  Information Technology  2		3			
Biochemistry & Industrial Microbiology  Botany & Biotechnology  Chemistry & Industrial Chemistry  Environmental Science and Environment & Water  Management  Physics & Computer Application  B. Com.  Commerce  B. Com.  Commerce & Hotel Management & Catering  Commerce with Computer Application  1  Commerce & Tourism & Travel Management  B. B. A.  B. C. A.  B. Ed. (KUCTE)  B. Ed. (Training Colleges)  T. LL. B.  B. Tech  Civil  B. Tech  Civil  Mechanical Stream - Production Engineering  Mechanical Stream - Automobile Engineering  Mechanical Stream - Industrial Engineering  Delectrical and Electronics Engineering  Electronics & Communication Engineering  Applied Electronics & Instrumentation  Computer Science and Engineering  3  Information Technology  2	Zoology	14			
Chemistry & Industrial Chemistry         1           Environmental Science and Environment & Water         1           Management         1           Physics & Computer Application         1           Commerce         15           Commerce & Hotel Management & Catering         1           Commerce with Computer Application         1           Commerce & Tourism & Travel Management         1           B. B. A.         1           B. C. A.         1           B. Ed. (KUCTE)         9           B. Ed. (Training Colleges)         7           LL. B.         4           B.Tech           Civil         3           Mechanical         2           Mechanical Stream - Production Engineering         2           Mechanical Stream - Automobile Engineering         2           Mechanical Stream - Industrial Engineering         2           Chemical Engineering         2           Biotechnology & Bio Chemical Engineering         3           Electrical and Electronics Engineering         3           Electronics & Communication Engineering         3           Electronics & Instrumentation         2           Computer Science and Engineering         3	Biochemistry & Industrial Microbiology	1			
Environmental Science and Environment & Water         1           Management         1           B. Com.           Commerce           Environment         15           Commerce & Hotel Management & Catering         1           Commerce & Hotel Management & Catering         1           Commerce & Tourism & Travel Management         1           B. B. A.         1           B. C. A.         1           B. Ed. (KUCTE)         9           B. Ed. (Training Colleges)         7           LL. B.         4           B. Tech           Civil         3           Mechanical         2           Mechanical Stream - Production Engineering         2           Mechanical Stream - Automobile Engineering         2           Mechanical Stream - Industrial Engineering         2           Chemical Engineering         2           Biotechnology & Bio Chemical Engineering         3           Electrical and Electronics Engineering         3           Electronics & Communication Engineering         3           Applied Electronics & Instrumentation         2           Computer Science and Engineering         3           Information Technology	Botany & Biotechnology	1			
Management         1           B. Com.           Commerce         15           Commerce & Hotel Management & Catering         1           Commerce with Computer Application         1           Commerce & Tourism & Travel Management         1           B. B. A.         1           B. C. A.         1           B. Ed. (KUCTE)         9           B. Ed. (Training Colleges)         7           LL. B.         4           B. Tech           Civil         3           Mechanical         2           Mechanical Stream - Production Engineering         2           Mechanical Stream - Automobile Engineering         2           Mechanical Stream - Industrial Engineering         2           Chemical Engineering         2           Biotechnology & Bio Chemical Engineering         2           Electrical and Electronics Engineering         3           Electronics & Communication Engineering         3           Applied Electronics & Instrumentation         2           Computer Science and Engineering         3           Information Technology         2	Chemistry & Industrial Chemistry	1			
B. Com.   15		1			
Commerce         15           Commerce & Hotel Management & Catering         1           Commerce with Computer Application         1           Commerce & Tourism & Travel Management         1           B. B. A.         1           B. C. A.         1           B. Ed. (KUCTE)         9           B. Ed. (Training Colleges)         7           LL. B.         4           B.Tech           Civil         3           Mechanical         2           Mechanical Stream - Production Engineering         2           Mechanical Stream - Automobile Engineering         2           Mechanical Engineering         2           Chemical Engineering         2           Biotechnology & Bio Chemical Engineering         2           Electrical and Electronics Engineering         3           Electronics & Communication Engineering         3           Applied Electronics & Instrumentation         2           Computer Science and Engineering         3           Information Technology         2	Physics & Computer Application	1			
Commerce & Hotel Management & Catering  Commerce with Computer Application  Commerce & Tourism & Travel Management  B. B. A.  B. C. A.  B. C. A.  B. Ed. (KUCTE)  B. Ed. (Training Colleges)  T. LL. B.  B. Tech  Civil  Mechanical  Mechanical Stream - Production Engineering  Mechanical Stream - Automobile Engineering  Mechanical Stream - Industrial Engineering  Chemical Engineering  Biotechnology & Bio Chemical Engineering  Biotechnology & Bio Chemical Engineering  Bielectronics & Communication Engineering  Applied Electronics & Instrumentation  Computer Science and Engineering  Information Technology	B. Com.	,			
Commerce with Computer Application  Commerce & Tourism & Travel Management  B. B. A.  B. C. A.  B. Ed. (KUCTE)  B. Ed. (Training Colleges)  7  LL. B.  B.Tech  Civil  Mechanical  Mechanical Stream - Production Engineering  Mechanical Stream - Automobile Engineering  Mechanical Stream - Industrial Engineering  2  Mechanical Engineering  2  Chemical Engineering  Biotechnology & Bio Chemical Engineering  2  Electrical and Electronics Engineering  3  Applied Electronics & Instrumentation  Computer Science and Engineering  3  Information Technology	Commerce	15			
Commerce & Tourism & Travel Management  B. B. A.  B. C. A.  B. Ed. (KUCTE)  9  B. Ed. (Training Colleges)  1  LL. B.  B. Tech  Civil  Mechanical  Mechanical Stream - Production Engineering  Mechanical Stream - Automobile Engineering  Mechanical Stream - Industrial Engineering  2  Mechanical Engineering  2  Chemical Engineering  2  Electrical and Electronics Engineering  2  Electronics & Communication Engineering  3  Applied Electronics & Instrumentation  Computer Science and Engineering  3  Information Technology	Commerce & Hotel Management & Catering	1			
B. B. A.  B. C. A.  B. Ed. (KUCTE)  B. Ed. (Training Colleges)  7  LL. B.  B.Tech  Civil  Mechanical  Mechanical Stream - Production Engineering  Mechanical Stream - Automobile Engineering  Mechanical Stream - Industrial Engineering  2  Mechanical Engineering  2  Chemical Engineering  2  Electrical and Electronics Engineering  2  Electronics & Communication Engineering  3  Applied Electronics & Instrumentation  Computer Science and Engineering  3  Information Technology  2	Commerce with Computer Application	1			
B. C. A.  B. Ed. (KUCTE)  B. Ed. (Training Colleges)  7  LL. B.  B.Tech  Civil  Mechanical  Mechanical Stream - Production Engineering  Mechanical Stream - Automobile Engineering  Mechanical Stream - Industrial Engineering  Chemical Engineering  2  Chemical Engineering  2  Electrical and Electronics Engineering  2  Electronics & Communication Engineering  3  Applied Electronics & Instrumentation  Computer Science and Engineering  3  Information Technology  2	Commerce & Tourism & Travel Management	1			
B. Ed. (KUCTE) 9 B. Ed. (Training Colleges) 7 LL. B. 4  B.Tech  Civil 3 Mechanical 2 Mechanical Stream - Production Engineering 2 Mechanical Stream - Automobile Engineering 2 Mechanical Stream - Industrial Engineering 2 Chemical Engineering 2 Biotechnology & Bio Chemical Engineering 2 Electrical and Electronics Engineering 3 Electronics & Communication Engineering 3 Applied Electronics & Instrumentation 2 Computer Science and Engineering 3 Information Technology 2	B. B. A.	1			
B. Ed. (Training Colleges) 7  LL. B. 4  B.Tech  Civil 3  Mechanical 2  Mechanical Stream - Production Engineering 2  Mechanical Stream - Automobile Engineering 2  Mechanical Stream - Industrial Engineering 2  Chemical Engineering 2  Biotechnology & Bio Chemical Engineering 2  Electrical and Electronics Engineering 3  Electronics & Communication Engineering 3  Applied Electronics & Instrumentation 2  Computer Science and Engineering 3  Information Technology 2	B. C. A.	1			
B.Tech  Civil 3  Mechanical 2  Mechanical Stream - Production Engineering 2  Mechanical Stream - Automobile Engineering 2  Mechanical Stream - Industrial Engineering 2  Chemical Engineering 2  Biotechnology & Bio Chemical Engineering 2  Electrical and Electronics Engineering 3  Electronics & Communication Engineering 3  Applied Electronics & Instrumentation 2  Computer Science and Engineering 3  Information Technology 2	B. Ed. (KUCTE)	9			
B.Tech  Civil 3  Mechanical 2  Mechanical Stream - Production Engineering 2  Mechanical Stream - Automobile Engineering 2  Mechanical Stream - Industrial Engineering 2  Chemical Engineering 2  Biotechnology & Bio Chemical Engineering 2  Electrical and Electronics Engineering 3  Electronics & Communication Engineering 3  Applied Electronics & Instrumentation 2  Computer Science and Engineering 3  Information Technology 2	B. Ed. (Training Colleges)	7			
Civil3Mechanical2Mechanical Stream - Production Engineering2Mechanical Stream - Automobile Engineering2Mechanical Stream - Industrial Engineering2Chemical Engineering2Biotechnology & Bio Chemical Engineering2Electrical and Electronics Engineering3Electronics & Communication Engineering3Applied Electronics & Instrumentation2Computer Science and Engineering3Information Technology2	LL. B.	4			
Mechanical2Mechanical Stream - Production Engineering2Mechanical Stream - Automobile Engineering2Mechanical Stream - Industrial Engineering2Chemical Engineering2Biotechnology & Bio Chemical Engineering2Electrical and Electronics Engineering3Electronics & Communication Engineering3Applied Electronics & Instrumentation2Computer Science and Engineering3Information Technology2	B.Tech				
Mechanical Stream - Production Engineering2Mechanical Stream - Automobile Engineering2Mechanical Stream - Industrial Engineering2Chemical Engineering2Biotechnology & Bio Chemical Engineering2Electrical and Electronics Engineering3Electronics & Communication Engineering3Applied Electronics & Instrumentation2Computer Science and Engineering3Information Technology2	Civil	3			
Mechanical Stream - Automobile Engineering2Mechanical Stream - Industrial Engineering2Chemical Engineering2Biotechnology & Bio Chemical Engineering2Electrical and Electronics Engineering3Electronics & Communication Engineering3Applied Electronics & Instrumentation2Computer Science and Engineering3Information Technology2	Mechanical	2			
Mechanical Stream - Industrial Engineering2Chemical Engineering2Biotechnology & Bio Chemical Engineering2Electrical and Electronics Engineering3Electronics & Communication Engineering3Applied Electronics & Instrumentation2Computer Science and Engineering3Information Technology2	Mechanical Stream - Production Engineering	2			
Chemical Engineering       2         Biotechnology & Bio Chemical Engineering       2         Electrical and Electronics Engineering       3         Electronics & Communication Engineering       3         Applied Electronics & Instrumentation       2         Computer Science and Engineering       3         Information Technology       2	Mechanical Stream - Automobile Engineering	2			
Biotechnology & Bio Chemical Engineering 2  Electrical and Electronics Engineering 3  Electronics & Communication Engineering 3  Applied Electronics & Instrumentation 2  Computer Science and Engineering 3  Information Technology 2	Mechanical Stream - Industrial Engineering	2			
Electrical and Electronics Engineering 3  Electronics & Communication Engineering 3  Applied Electronics & Instrumentation 2  Computer Science and Engineering 3  Information Technology 2	Chemical Engineering	2			
Electronics & Communication Engineering 3  Applied Electronics & Instrumentation 2  Computer Science and Engineering 3  Information Technology 2	Biotechnology & Bio Chemical Engineering	2			
Applied Electronics & Instrumentation 2  Computer Science and Engineering 3  Information Technology 2	Electrical and Electronics Engineering	3			
Computer Science and Engineering 3 Information Technology 2	Electronics & Communication Engineering	3			
Information Technology 2	Applied Electronics & Instrumentation	2			
	Computer Science and Engineering	3			
B. Arch 2	Information Technology	2			
	B. Arch	2			

University Merit Scholarship - PG			
There are 177 merit scholarships valued at Rs. 3000/- each per annum. The subjectwise distribution is as follows:			
M. Ed.	3		
LL. M.	3		
MLISc.	2		
M. A.	1		
M. A. Russian	1		
M. A. German			
Arabic	2		
Archaeology	1		
Economics	10		
English	10		
Geography	2		
Hindi	6		
History	5		
Islamic History	1		
Linguistics	2		
Malayalam	10		
Music	2		
Philosophy	3		
Politics	5		
Psychology	2		
Sanskrit	4		
Sociology	2		
Tamil	1		
M. Sc.			
Analytical Chemistry	2		
Applied Chemistry	2		
Applied Electronics	5		

	_			
Aquatic Biology and Fisheries	2			
Biochemistry	2			
Biotechnology	2			
Botany	10			
Botany (Genetics and Plant Breeding)	2			
Chemistry	11			
Computer Science	3			
Computational Biology	2			
Demography	2			
Environmental Science	1			
Geology	2			
Home Science	2			
Mathematics	11			
Physics	10			
Statistics	3			
Zoology	8			
Commerce (M.Com.)	10			
M.S.W.	2			
M.C.J.	2			
M.B.A	3			
University Scholarship				
M. Phil.	40			
There are 40 Scholarships valued at Rs. 750/- each per month on income basis (Annual income should not exceed Rs. 42000/-)				
Fellowships/Scholarships sponsored by other agencies & disbursed through this section				
DST (govt. of India)-INSPIRE	16			
DBT (Govt. of India)-BINC	1			
ICMR	1			
ICHR	1			

ICSSR	3
CSIR	8
AICTE-	43
IT Mission (Govt. of Kerala)	2
SPEED-IT	2
KSCTE	37
DCE (Govt. of Kerala) (approximate)	40
PG Merit Scholarship (2013-15)	6
IGPG Scholarship (2013-15)	16

**5.1.8**. Does the University have an International Student Cell to attract foreign students and cater to their needs?

A fully functional Centre for International Academics(CIA) is established in the University. In the project mode, the University had Students from USA who did courses in various departments as part of the Semester India Programme. Apart from this, the programmes and courses attract students from Iran, Afghanistan, Rwanda, Vietnam and other countries who pursue postgraduate and doctoral programmes. The aforesaid students are given adequate facilities in the Departments and proper guidance.

**5.1.9.** Does the University provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes. The cost of education is very low in the university. Where necessary, we assist students in obtaining loans

- **5.1.10.** What types of support services are available for
  - Overseas students

The Centre for International Academics of the University is in charge of this.

Physically challenged / differently-abled students

The University has its **Centre for Learning Disabilities and Difficulties** (**CLDD**) in the Department of Education which is one of the pioneering centres specializing in educational research as well as extension activities in the area of special education. It aims at preparing individualized holistic educational programmes for managing LD, availing the service of specialist psychologists and speech language pathologists as consultants at the Centre.

The Centre creates awareness about the needs of persons with disabilities and other general issues concerning disabilities and assists disabled graduates to gain successful employment in the public as well as private sector. E-content development for the differently abled is one of the agendas of the special Centre. The Centre also aims at the holistic development of the student with disability and develops assessment tests for various learning difficulties and Individual Educational plans (IEP) for children with disabilities using modern technological advancements.

At present, the Centre is actively involved in preparing and equipping the teachers for early identification of learning difficulties and gives them training in enhancing the learning potential of the disabled children. It develops holistic strategies for the differently abled children to cope with their specific problems. The Centre intends to widen its scope by developing educational, psychological intervention strategies for correcting disorders of the various categories of learning difficulties.

The department offices, class rooms and main laboratories and libraries are arranged as far as possible, on the ground floor and accessible by wheel chair. A ramp for wheel chair is provided at the entrance of department blocks according to the design of the building. Special toilets are also in place for the support of the physically challenged, and this facility has been created from the Infrastructure development grant of UGC.

#### SC / ST, OBC and economically weaker sections

The admission process strictly adheres to the reservations norm stipulated by the Govt. of Kerala.

The University has an Equal Opportunity Cell. The EOC is established by the UGC under the XI Plan-Merged Scheme. The University of Kerala introduced this cell in 2010 to meaningfully address the deprivations that the marginalized groups, identified as SCs, STs, OBC (non-creamy layer), minorities, women and physically challenged face in the access to materials, cultural and educational resources. It promotes the deserving, yet socially disadvantaged students. An Advisory Committee has been constituted as per the UGC guidelines with Vice Chancellor as Chairman and five senior professors of the University as members for monitoring and guiding the Remedial Coaching Programme. The job of the EOC is to lay emphasis on the deprived groups for learning and creating space for their increased visibility. The main objectives of the EOC are (i) to provide guidance and counseling to students with respect to academic, financial, social and other matters and to oversee the effective implementation of policies and programmes for disadvantaged groups and (ii) to adopt measures to ensure due share of utilization by SC, ST, OBC, minorities in admissions, recruitments (teaching and non-teaching posts) and to improve their performances.

#### **Programme of EOC**

**Personality Development** enhances and grooms the outer and inner self to bring about a positive change. As far as students are concerned, effective Personality Development Programmes aid them in dealing with the challenges of the outside world more effectively and efficiently. This also helps them to understand the intricacies involved in the corporate world. Above all, this helps the student in life situation to be emotionally balanced.

**Soft Skills** enables students with a strong conceptual and practical framework to build, develop and manage teams. Training in soft skills provides strong practical orientation to the students and helps them in building and improving their skills in communication, the effective use of English, business correspondence, presentations, team-building, leadership, time management, group discussions, interviews and interpersonal skills.

The proposed three-day programme aims at providing a socially congenial atmosphere for academic interaction and for the growth of healthy interpersonal relationships among the students coming from various deprived groups.

The department administration takes care of securing the e-grantz provided to the students and distributing it without delay. Similarly students of some Department have also availed the Maulana Azad National Fellowship for Minority students awarded by UGC and Fishermen Students Scholarship offered by the Government of Kerala.

Students participating in various competitions / conferences in India and abroad.

Students are encouraged to participate in international workshops and the departments provide all possible support to ensure participation.

Students are encouraged to submit abstracts to participate in international seminars and provide all possible assistance in securing travel grants for participation.

Students are encouraged to participate, present papers and compete for best paper in annual events like Indian Science Congress, Kerala Science Congress, Indian Fisheries Forum and other national and international seminars and workshops within India.

For instance one PhD student in Aquatic Biology Department, Ms. Sneha Chandran attended the workshop "Integrative taxonomy and taxonomic expertise in the framework of the DNA- barcoding initiative" organized by National Natural History Museum, Paris, France during 24-28 March 2014.

❖ Health centre, health insurance etc.

The university has Health Centres housed in both campuses and almost all experts in most of the medical specializations render their service at these Health Centers. Necessary assistance is also provided when the students wish to consult

doctors outside the campus. The health status of the students are assessed on a half yearly basis by the Health Centre. Health awareness camps and counseling for all students of colleges under Kerala University are conducted quite often.

❖ Skill development (spoken English, computer literacy, etc.)

Most of the departments have well equipped computer lab with internet connection to cater to the needs of students. Workshops are organized for training the students in useful software like R, SPSS, Ecopath, Endnote, Latex, etc. in some departments.

In the Department of Future Studies, while conducting induction sessions for 1<sup>st</sup> Semester M.Tech students, special care is given to improve soft skills and personality development. The different courses offered by the Department compulsorily includes certain computing programmes (Matlab, SPSS, etc), languages (C++) and other computer related application oriented courses (Artificial Intelligence, GIS) in the curriculum.

#### Performance enhancement for slow learners

Personal attention by faculty is provided to slow learners

Exposure of students to other institutions of higher learning / corporate / business houses, etc.

Research Scholars are encouraged to use the library facility in research institutions like CMFRI and Kerala Sahitya Academy. Students are also encouraged to do collaborative research utilizing the expertise of institutions like RGCB, Annamalai University, MS University, CMFRI, and several foreign experts.

The students are exposed to the following institutions in different ways:

- IITs
- IIITMK
- TCS
- **❖** TIFR
- ❖ TIFAC(Technology Information, Forecasting and Assessment Council), New Delhi

Field visits and study tour are included in the curricula to ensure the exposure of students to research institutions.

In Aquatic Biology Department every student is taken to CMFRI, CIFT, CIFNET, IFP, Matsyafed Shrimp/Prawn hatchery (Kollam), FFDA Fish hatchery (Neyyar), Chitin-Chitosan plant, Neendakara and Vizhinjam Fishing Harbours, Marine Aquaria, Cage farm of RGCA, Fish Processing Plant, Ice Plant, etc.

#### Publication of student magazines

Students of the Departments contribute articles to the Student Magazine published by the Departments Union and Departments like Malayalam (*Malayalasahiti*), Commerce (*Combus*), have their own student magazine.

The Department of Communication and Journalism has two Lab Newspapers, one in English (*Univoice*) and another in Malayalam (*Kalari*) and are regularly produced by the students. The students prepare the reports, edit them and do the layout using softwares. These journals have been available on line now for the last three years.

**5.1.11.** Does the University provide guidance and / or conduct coaching classes for students appearing for Civil Services, Defense Services, NET/SET and any other competitive examinations? If yes, what is the outcome?

University has Employment Information and Guidance Bureau.

The University Employment Information and Guidance Bureau located in the University Student's Centre is operated by dedicated staff deputed from the Labour Department of the Govt. of Kerala. The Bureau has a staff strength of 6 including a Deputy Chief (Head of Office), 2 Clerks, 1 Typist an Attendant and a Watchman. Students of the University (present and past) can approach the Bureau in person or over phone during office hours for suggestions on career guidance. The Bureau also houses a Library exclusively for career guidance which the students can use during the working hours. The Bureau has been conducting coaching classes for aspirants of various competitive examinations like CSIR NET, SET, PSC Examinations, Bank Exams, etc. for a nominal fee. Experts from colleges in the district are invited for offering classes to the trainees and the coaching classes have been well received by the student community due to its good success rate. With the funding support of the Govt. of Kerala, free coaching classes are also organized by the Bureau for students belonging to SC/ST category to appear in PSC examinations. The staff of the Bureau with the support of invited experts conducts career guidance classes on a regular basis in Government Schools for +2 students on the opportunities in higher education in the University of Kerala.

Special refresher classes are arranged by many departments on its own for the students who wish to attend Kerala Public Service Commission Examinations, ICAR NET/ARS examinations, etc.

**5.1.12.** Mention the policies of the University for enhancing student participation in sports and extracurricular activities through strategies / schemes

The Department of Physical Education has been providing various facilities to the students of the University of Kerala with a view to promoting interest among students in sports and games with the University Stadium as a hub.

The University stadium situated in the heart of Trivandrum city is owned by the University of Kerala and is one of the best in the State. The stadium is equipped with a world class synthetic track and facilities for training students in various sports and games events. The Physical Education Department has set up a fitness training centre in the stadium complex equipped with modern body building gadgets. Facilities are available in the stadium for training in Karate, Taekwondo, Boxing and Yoga. The Department has engaged coaches to train students in various sports and games events. Moreover, a Sports Hostel for students is run in the University Stadium complex where students interested in athletics and football are accommodated and expert training provided to them. Apart from the activities in the University stadium, there is another stadium at the Kariavattom campus. The Senate House campus has a Basket Ball court and a Badminton court. The Department of Physical Education has on its payrolls coaches in various disciplines and our students perform exceptionally well in the national level, with athletics as our forte.

Students who perform and secure positions in the University, State and National level are given grace marks in the university examinations.

The Department of Student Services under the Director of Students Services organizes a wide variety of cultural activities and other welfare schemes every year. The Director engages the Students Union and its leader to take leadership to conduct various programmes.

Kerala University Youth Festival is one of the biggest cultural events in Asia. About 3000 students from 236 affiliated Colleges participate and compete in 86 different items at both individual and group levels. About 25 events are conducted separately for men and women. Most of the competitors showcase the richest cultural heritage of Kerala. Some items are also in the Western Stream. Prizes are given in each category and grace marks awarded to winners in the University Examinations. In addition, cash prize is also awarded to First& Second prize winners.

**5.1.13.** Does the University have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare them for interview, and develop entrepreneurship skills?

The university has a centralized placement cell and the proposed activities of the Finishing School supports placement. The objectives of the placement Cell are:

- 1. Help students to identify a career path based on aptitude and potential on one hand and acquired knowledge and skills on the other
- 2. Create a data base on manpower in the university and pool it in the TALENT Bank

- 3. Identify numerous opportunities for employment both inside and outside the country and report the same to matching centres.
- 4. Coordinate with affiliated colleges on their placement needs as well as on issues relating to employability and formative skills
- 5. Undertake orientation programs, seminars and need based training to bridge the gap between academic content based knowledge and employability skills as envisaged by the industry
- 6. Act as a forum for Industry-Institute linkage that ensures placement
- 7. Encourage and support campus placement activities
- 8. Impart need based discipline/course oriented programme at the behest of potential employers and the industry. Such programme would include:
  - Personality development programme
  - Soft skill development programme
  - Training for examinations and interviews
- 9. Undertake selection of students for specific posts as directed by recruiters
- 10. Establish linkage with professional bodies, government agencies that support placement of students in different disciplines

#### **Activities**

The Cell would have activities that help in achieving the above objectives. Such activities would be under two heads:

- 1. For the students of the University Departments / Centres
- 2. For students of affiliated colleges and institutions.

An active placement cell is in place under the heads of the departments, which maintains an email groups to circulate the opportunities in the field as and when required.

Students are encouraged to organize one day seminar/workshops. Examples are given below.

In Aquatic Biology Department resource managers from Aqua Feed industry were invited to interact with the students about the career opportunities in the sector.

In the IMK the Institute has a full-fledged winter & final placement cell headed by a Placement Co-ordinator. The cell enjoys the patronage of various industrial houses. It uses a structured programme which helps the students to

identify their potential. This enhances and channelises them to match the requirements of the job market. IMK's placement cell has proven its worth by attracting prospective employers year after year and has gained in strength.

Recruiters in the past	Federal Bank	Taj group of Hotels
Amrita TV	Asianet	Hindustan Latex Ltd.
LIC Housing Finance	UST Global	Vizhinjam International
Ltd	Ernst and Young	Port
TATA AIG Life	Samsung	The Hindu
IBS software	<b>Animal Planet</b>	The Mathrubhumi
Accenture	Infosys	ICICiBank
Air India	Federal Bank	ITC Ltd
HDFC Bank	MuthootFincorp	KIMS
The Indian Express	NeST	Axis Bank
Microsoft	Metlife(Now PNB-	Bramma Learning
HCL technologies	metlife	Solutions
Nokia		Revenue Med
South Indian Bank	MIR Realtors	Idea cellular
	Great Brain	Pearson
	Device driven	

#### In Communication and Journalism

Sl. No	No. of Students	Company
1	5	Times of India, The New Indian Express
2	7	DNA
3	11	Asianet, Indiavision
4	13	Malayala Manorama, Mathrubhumi

**5.1.14.** Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

A good number of students selected during campus in previous years. For instance,

#### In IMK

Year	No. of	Name of employers	No. of	Maximum
	students		companies	amount of
	selected		visited during	salary offered
			the year	(p.a)
2008-09	35	LIC Housing Finance Ltd,	9	Rs. 300000
		Federal bank, IBS		
		Software Accenture, ICICI		
		Bank ITC Ltd, KIMS,		
		Axis Bank		
2009-10	36	Federal bank, IBS	13	Rs.360000
		Software Accenture, ICICI		
		Bank ITC Ltd, NeST,		
		Metlife(Now PNB-metlife		
		MIR Realtors, Idea		
		cellular		
2010 11	22	Pearson	4.4	D 420000
2010-11	32	Infosys, Federal Bank,	14	Rs.420000
		MuthootFincorp,		
		Taj group of Hotels, Hindustan Latex Ltd. IBS		
		Software, Accenture,		
		ICICI Bank ITC Ltd		
2011-12	34	Idea cellular, Pearson	16	Rs.480000
		Device driven, Great		
		Brain, LIC Housing		
		Finance Ltd, Federal bank,		
		IBS Software, Accenture,		
		ICICI Bank		
2012-13	35	Air India, HDFC Bank,	15	360000
		The Indian Express,		
		Microsoft, HCL		
		technologies, Nokia, South		
2012 14	20	Indian Bank	20	224000
2013-14	39	IBS, Federal bank,	29	324000
		Vizhinjam International seaport, Pearson, Idea		
		seaport, Pearson, Idea cellular, Device driven,		
		Great brain, MIR Realtors		
		Great brain, with Realtors		

**5.1.15.** Does the University have a registered Alumni Association? If yes, what are its activities and contributions to the development of the department?

Yes, In addition to University's Alumni Association many Departments have their own registered Alumni Associations. These associations actively coordinate annual get together in the campus. The alumni association also supports the organization of seminars/symposia by the department.

#### **Prominent Alumni Association Members**

#### **Political leaders – President/Ministers**

Mr. K.R. Narayanan, Mr. A.K Antony ,Shri.Vayalar Ravi, P.K.Vasudevan Nair and many more

#### Actors

Mohan Lal , Mammooty ,Murali, Nedumudi Venu and many more Film Directors like Mr. Adoor Gopala Krishnan and many more Creative Writers: O N V Kurup, Puthusseri Ramachandran and many more Jurists: Justice Fathima Beevi , Justice Anna Chandi and many more

The Alumni has opened avenues for the University to maintain liaison with some of the business, governmental, research and developmental establishments in and outside the country. They share their know-how through guest lectures, placement opportunities for the current students and also mobilize field visits and help existing students undertake project work in their respective organization. For instance, in the Department of Commerce, the Alumni Association was cosponsor for an international seminar organized by the Department in 2013. The association meets on 26<sup>th</sup> of January every year and is involved in the Department activities. The Alumni maintains a separate collection of books in the Department library and do support students in their research projects

IMK has two Alumni Associations, one for the regular MBAs and the other for part-time MBAs to promote a close network for bridging the gap between budding executives and the proficient alumni. The associations help to keep in touch with fellow alumni and also serve as a platform which enable alumni to contribute to their alma mater and society at large and facilitate interaction between the alumni, faculty and students. Their activities include:

- 1 Conduct job mela
- 2 Conduct training camps for career guidance
- 3 Conduct group discussions and special lectures
- 4 Help in industrial visits and placements
- 5 Motivate students by giving financial assistance to financially weak students
- 6 Donate books to the library
- 7 An annual newsletter.
- **8** Conduct of annual general body meeting and reunion meets of different batch of students.
- **5.1.16.** Does the University have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?

University has centralized student grievance redressal cell. All Departments have their own grievance redressal cell that function under the chairmanship of the Head of the Department and includes other members of the faculty. Complaints if any are discussed in the department council and amicably settled or forwarded to superior authorities.

**5.1.17.** Does the University promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.

Yes, The Centre for Women's Studies in the University regularly conducts awareness programmes/ workshops /training programmes for women. Towards the end of the XI Five Year Plan, the efforts of the CWS were focussed on the publication of material generated by the CWS, development of a National Curriculum in Women's Studies for BA and MA courses across the country and to address issues of violence against women. The centre organized the International Women's Day celebrations at the University of Kerala on 08.03.2012 on the theme 'Violence Against Women'. Regular meetings were held at the Women's Studies Units affiliated to the University of Kerala centering around the issues of Violence against Women, Women and Cyber Crime, Women and Street Violence, Women and Health, Women and Law and Women and Representation in the Media.

The university has a Cell to Combat Sexual Harassment (CCSH). The CCSH, as it is popularly known, has three major functions – gender sensitization and orientation, crisis management and mediation and formal enquiry and redress.

In 2013, two written complaints and five oral complaints were received, where the victims were unwilling to commit themselves in writing. One complaint was withdrawn subsequently. Suitable action as stipulated by law was taken in all the complaints.

International Women's Day on March 8 proved to be an occasion to renew the pledge to gender equity and justice in the university. The Hon. Pro-Vice-Chancellor, Prof. J. Prabhah opened the day's deliberations and the key note address was delivered by Smt. Nalini Netto I A S. A handbook titled *Shakti*, prepared by Dr. Bismi Goplalakrishnan, Assistant Professor, Department of Law, University of Kerala, on laws relating to women was released on the occasion.

The year 2013 saw the government enacting a new Act on sexual harassment at the workplace, resulting in increased awareness on this vexed issue. The university has risen to the occasion and steps have been taken to constitute committees as per law in all the affiliated colleges.

**5.1.18.** Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?

The University has an anti-ragging Committee. Anti-ragging committees are formed in every Department as per the guidelines of the University.

No cases have been reported before these committees.

**5.1.19.** How does the University elicit the cooperation of all its stakeholders to ensure the overall development of its students?

A strong bond exists between the University and stakeholders and it is reflected in the joint programmes organized for and with them. The university Governing bodies like Syndicate and Senate, ensures the representation of such persons.

For instance, the Department of Future Studies maintains industry cooperation through the Consultancy Centre (C\_GRaF) and ED Cell. The Department through C-GRaF and ED Cell has maintained contacts with several industrial and research institutions of Kerala and also with the Central Govt. research institutes. This encourages students associate with them and do research and engage in and consultancy activities with the cooperation and association of these institutes. For example, the Department has signed a MoU with IBM for on job training for the students in PGDKM. Rajiv Gandhi Centre for Biotechnology (RGCB), National Interdisciplinary Institute of Science and Technology (NIIST) and VSSC from Trivandrum, Tata Institute of Fundamental Research (TIFR), Mumbai and TIFAC, New Delhi. are some of the organizations where the students undertake internships and projects.

**5.1.20.** How does the University ensure the participation of women students in intra-and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

The Department of Physical Education takes special efforts to include women in cultural activities and sports competitions organized by them or by other institutions.

#### The Out come of women achievements are listed

#### Women team won Championship Women

#### **100 Mts**

Sl. No.		Name	college	Places
1	K.1.W	Anusha Biju	St. Joseph's College, Alappuzha	Silver
2	K.2.W	Shylu Prakash	St. Joseph's College, Alappuzha	Gold
3	K.4.W	Nithya. T.A.	SD College, Alappuzha	Gold
4		Anusha Biju	St. Joseph's College, Alappuzha	Gold
5		Shylu Prakash	St. Joseph's College, Alappuzha	Gold
6		Nithya. T.A.	SD College, Alappuzha	Gold
7		Justy Mol. C.T.	St. Joseph's College, Alappuzha	Gold

# **200 Mts**

Sl. No.		Name	College	Places
1	K.1.W	Anusha Biju	St. Joseph's College, Alappuzha	Silver
2	K.2.W	Shylu Prakash	St. Joseph's College, Alappuzha	Gold
3	K.4.W	Nithya. T.A.	SD College, Alappuzha	Gold
4		Anusha Biju	St. Joseph's College, Alappuzha	Gold
5		Shylu Prakash	St. Joseph's College, Alappuzha	Gold
6		Nithya. T.A.	SD College, Alappuzha	Gold
7		Justy Mol. C.T.	St. Joseph's College, Alappuzha	Gold

# **500 Mts**

Sl. No.		Name	college	Places
1	K.1.W	Anusha Biju	St. Joseph's College, Alappuzha	Silver
2	K.2.W	Shylu Prakash	St. Joseph's College, Alappuzha	Gold
3	K.4.W	Nithya. T.A.	SD College, Alappuzha	Gold
4		Anusha Biju	St. Joseph's College, Alappuzha	Gold
5		Shylu Prakash	St. Joseph's College, Alappuzha	Gold
6		Nithya. T.A.	SD College, Alappuzha	Gold
7		Justy Mol. C.T.	St. Joseph's College, Alappuzha	Gold

# 1000 Mts

Sl. No.		Name	college	Places
1	K.1.W	Anusha Biju	St. Joseph's College, Alappuzha	Silver
2	K.2.W	Shylu Prakash	St. Joseph's College, Alappuzha	Gold
3	K.4.W	Nithya. T.A.	SD College, Alappuzha	Gold
4		Anusha Biju	St. Joseph's College, Alappuzha	Gold
5		Shylu Prakash	St. Joseph's College, Alappuzha	Gold
6		Nithya. T.A.	SD College, Alappuzha	Gold
7		Justy Mol. C.T.	St. Joseph's College, Alappuzha	Gold

# **5.2.** Student Progression

- 5.2.1. What is the student strength of the department for the last academic year? Analyse the Programme-wise data and provide the trends for the last four years.
  - Ratio between seats and applications received

Year	No application received	No of students admitted	Ratio
Year1	7598	738	10:1
Year 2	7694	759	10:1
Year 3	7714	782	10:1
Year 4	7791	800	10:1

Number of students admitted in university departments in the last four academic years:

# **PG Courses**

Categories	Ye	ear 1	Ye	ar 2	Year 3		Year 4	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	36	74	34	84	30	78	34	76
ST	7	11	3	8	5	18	8	18
OBC	98	202	102	221	97	225	101	226
General	65	199	69	204	79	220	78	234
Others	9	37	9	25	7	23	8	33
Total	215	523	217	542	218	564	229	587

# M.Phil

Categories	Ye	ear 1	Ye	ar 2	Ye	ear 3	Yea	r 4
	Male	Female	Male	Female	Male	Female	Male	Female
SC/ST	4	11	3	13	4	12	4	11
Others	39	102	45	105	48	102	45	105
Total	43	113	48	118	52	114	49	116

5.2.2. What is the programme-wise completion rate during the time span stipulated by the department?

# PG Programmes offered under CSS- 5.2.2

Sl. No.	Name of Course	Completion Rate (%)
1	Aquatic Biology & Fisheries (M.Sc.)	100
2	Arabic (MA)	100
3	Archaeology (MA)	100
4	Bio-Chemistry (M.Sc.)	93
5	Biotechnology (M.Sc.)	100
6	Botany (M.Sc.)	90
7	Chemistry (M.Sc.)	93
8	Commerce (M.Com.)	97
9	Communication & Journalism (MCJ)	100
10	Computer Science (M.Sc.)	100
11	Demography (M.Sc.)	100
12	Economics (MA)	96
13	Environmental Sciences (M.Sc.)	100
14	Geology (M.Sc.)	90
15	German (MA)	100
16	Hindi (MA)	95
17	History (MA)	95
18	Institute of English (MA)	100
19	Islamic Studies (MA)	100
20	Library Science (M.Lisc)	95
21	Linguistics (MA)	93
22	Malayalam (MA)	92
23	Mathematics (M.Sc.)	96
24	Music (MA)	100
25	Philosophy (MA)	90
26	Physics (M.Sc.)	93
27	Politics (MA)	90
28	Psychology (MA)	96
29	Sanskrit (MA)	90

30	Sociology (MA)	100
31	Statistics (M.Sc.)	95
32	Tamil (MA)	100
33	Zoology (M.Sc.)	100
34	Education (M.Ed.)	97
35	Russian (MA)	100
36	Law (LLM)	95
37	Computational Biology (M.Sc.)	100
38	M.Phil Bioinformatics	100
39	M.Phil CADD	100
40	M.Phil. Computational Linguistics	100
41	M. Tech. Optoelectronics	100
42	M. Tech. Computer Science	100
43	M. Tech. Technology Management	100
44	MBA	96
45	MSW	100
46	Acturial Science	100
47	Integrated Biology	100
	Total	
	Total	

**5.2.3.** What is the number and percentage of students who appeared / qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE /CAT/ GRE /TOFEL/GMAT/Central/State services, Defense, Civil Services, etc.?

**PG Programmes offered under CSS-5.2.3** 

Sl. No.	Name of Course	UGC CSIR NET	ENTRAL STATE SERVICES	CIVIL SERVICES
1	Aquatic Biology & Fisheries (M.Sc.)	6	3	
2	Arabic (MA)			
3	Archaeology (MA)	2	4	
4	Bio-Chemistry (M.Sc.)	7	6	1
5	Biotechnology (M.Sc.)	3	3	
6	Botany (M.Sc.)	11	8	

7	Chemistry (M.Sc.)	6	8	
8	Commerce (M.Com.)	6	2	1
9	Communication & Journalism (MCJ)	6	9	
10	Computer Science (M.Sc.)	6	7	
11	Demography (M.Sc.)	4	4	
12	Economics (MA)	11	14	4
13	Environmental Sciences (M.Sc.)	3	6	
14	Geology (M.Sc.)	8	8	
15	German (MA)			
16	Hindi (MA)	4	9	
17	History (MA)	9	9	2
18	Institute of English (MA)	9	11	1
19	Islamic Studies (MA)			
20	Library Science (M.Lisc)	8	9	
21	Linguistics (MA)			
22	Malayalam (MA)	9	12	
23	Mathematics (M.Sc.)	9	10	
24	Music (MA)			
25	Philosophy (MA)			
26	Physics (M.Sc.)			
27	Politics (MA)	9	13	3
28	Psychology (MA)	3	3	
29	Sanskrit (MA)			
30	Sociology (MA)			
31	Statistics (M.Sc.)	4	12	
32	Tamil (MA)			
33	Zoology (M.Sc.)	6	9	
34	Education (M.Ed.)	8	4	1
35	Russian (MA)			
36	Law (LLM)	14	6	
37	Computational Biology (M.Sc.)		3	
38	M.Phil Bioinformatics		6	
39	M.Phil CADD		4	
40	M.Phil. Computational Linguistics		8	
41	M. Tech. Optoelectronics		9	

42	M. Tech. Computer Science		10	
43	M. Tech. Technology Management		8	
44	MBA	4	28	
45	MSW	1	8	
46	Actuarial Science			
47	Integrated Biology			
	Total	176	273	13

**5.2.4.** Provide category-wise details regarding the number of Ph.D./D. Litt/ D.Sc. theses submitted accepted / resubmitted / rejected in the last four years.

In the last four years University produced 1106 Ph.D under different faculties.

<u>Year</u>	<u>Number</u>
2010	232
2011	224
2012	275
2013	375

# 5.3. Student Participation and Activities

**5.3.1** List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

The Department of Physical Education has been providing various facilities to the students of the University of Kerala with a view to promote interest among students in sports and games with the University Stadium as a hub. The Sports Calendar for the University, including Inter-collegiate Sports activities given in Appendix 1.

The cultural activities of the University includes organizing traditional festivals and cultural activities. The Youth Festival of the University incorporates a wide range of cultural events. Kerala University Youth Festival is one of the biggest cultural events in Asia. About 3000 students from 236 affiliated Colleges participate and compete in 86 different items both at individual and group level. About 25 events are conducted separately for men and women. Most of them showcase the rich cultural heritage of Kerala. Some items are also in Western Stream these prizes are given in each category and grace marks are awarded to winners in the University Examinations. In addition cash prizes are also awarded to I & II prize winners.

**5.3.2.** Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels. University / State / Zonal / National / International, etc. during the last four years.

Kerala University Youth Festival is one of the biggest cultural events of Asia. About 3000 students of 236 affiliated Colleges participate and compete in 86 different items both individual and groups. About 25 events are conducted separately for male and female. Most of them showcase the richest cultural heritage of Kerala. Some items are in Western Stream I, II, III prizes are given and grace marks are awarded to winners in the University Examinations. In addition cash prizes are also awarded to I & II prize winners.

From the winners of the University festivals students are selected for South Zone level Inter-University competitions conducted jointly by the Association of Indian Universities (AIU) and the Ministry of Youth Affairs, Govt. of India. It is to be noted that Kerala University was many-time champions of this festival and also hat trick-champions for the period 2010-12. At the Mysore University for the 25<sup>th</sup> edition of this festival, Kerala University bagged all 7 trophies which is a unique record.

At the National level Inter University Youth Festivals, University of Kerala had won many laurels. In 2012 at RTM University, Nagpur, University of Kerala was runners-champions, for the first time. The Folk Orchestra of University is quite famous and had enthralled the audience in National Festivals. These festivals had given birth to many cultural heroes of our state who have won wide acclaim. Special functions are arranged to felicitate the winners by the University.

There is an annual Theatre Festival organized by the University. It is noteworthy that in this modern electronic era with the overarching influence of television, films and internet, students take special interest to actively participate in theatre activities. More than fifteen plays from different colleges are staged in the two day festival every year. Students actively take part in National Cadet Corps (NCC) and National Services Scheme (NSS) and they are entitled to the award of grace marks in University Examinations. In addition to these, several series of lectures, seminars, debates, Quiz, various literary events and Leadership Training Camp are also conducted every year.

Department Students Unions and Researchers Unions conduct literary and cultural festivals of their own.

<u>List of Prize-winners representing University of Kerala</u>
<u>At National Inter-University competitions.</u>

No.	Name & college	Item	Prize		
I.	I. 2009 Vidya Sagar University, Medinipur, West Bengal				
1	Parvathy, Govt. Woment College	Folk Orchestra	Third		
2	Lekshmi.K.J., Mar Ivanios	"	<b>?</b> ?		
3	Sruthy, Mar Ivanios	22	"		

4	Gopika Gopakumar, Mar Ivanios	"	"
5	Jay Joy, Mar Ivanios	>>	"
6	Remya,Mar Ivanios	27	>>
7	Veena, Mar Ivanios	"	>>
8	Vinil, Mar Ivanios	"	"
9	Srinath, Mar Ivanios	"	>>
10	Srikanth, IMK	27	>>
11	Srinath, SNC, Kollam.	22	"
12	Aneeshkumar.N.K.,SD College, Alapuzha	Western Vocal solo	Third
13	Sreekuttan. M.S., University College	Classical Dance	First
II	2010 MD University Rohtak, Hariya	na, February 2-6-201	0
1	Vishunu Vijay, Dept of Music	Classical Instrumentation (Non-percussion)	Third
2	Renjumol.O, SST	Light Vocal (Indian)	Third
3	Renjumol.O, SST	Group song (Indian)	Fourth
4	Parvathy. S, Govt. Womens College	"	"
5	Poornima. K., Mar Ivanios	"	"
6	Clint. R, SST	>>	"
7	Sooraj. S, Mar Ivanios	"	"
8	Srinath. S, Mar Ivanios	"	"
9	Sreekuttan.M.S, University College	Classical Dance	First
10	Ameensha. M, University College	Theatre &Skit	Second
11	Chanthu. G, Mar Ivanios	>>	"
12	Satheesh G Nair, Mar Ivanios	>>	"
13	Aswathy Chand. A.C, Govt. Arts College	22	27
14	Veena.K.S, Govt. Womens College	"	>>
15	Parvathy. S, Govt. Wemens College	"	"
		1	1

	Fine Arts				
16	Aswathy. S, TKMCE, Kollam	Painting	First		
III	2011-Sree Vekiteswara University, Thirupathy				
1	Jessin Kabir, CET	Poster Making	Third		
IV	2012 at RTM Nagpur Univesity, Ma	aharashtra Jan 22-26,	2012		
1	Krishna J.C, Mar Ivanios College	Western Vocal (Solo)	Third		
2	Srijith. S, Mar Ivanios College	Classical Non- Percussion	Third		
1	Srinath. S, Mohan Das College of Engg, Anad	Fold Orchestra	Third		
2	Srijith. S, Mar Ivanios College	"	"		
3	Anish Unii. K, Govt. Law College, TVM.				
4	Gopika. J. CET	"	"		
5	Vipina Gangadharan, Mar Ivanios College	"	"		
6	Neeshma Joseph, Mar Ivanios College	"	"		
7	Parvathy. R.J., Mar Ivanios College	"	"		
8	Bhairavi. M.R, SST	22	"		
9	Prasanth. G. Krishnan	"	"		
10	Lenin. R, Bethany Navajeevan	"	"		
1	Sonu S., Mar Ivanios College	One Act Play	Third		
2	Binu Raj R. Mar Ivanios College	"	22		
3	Vineeth Mohan, Govt. Medical College	"	"		
4	Syam S. Mar Ivanios College	22	"		
5	Vinod G., Mar Ivanios College	22	"		
6	Adarsh M. A. Mar Ivanios College	22	"		
7	Sreedevi S., Mar Ivanios College	22	22		

8	Aswathy Chand A. C., govt. Arts College	>>	"
1.	Sonu.S	Skit	First
2	Sarath Kumar, Mar Ivanios College	>>	"
3	Saran Mohan, SST	22	"
4	Binuraj. R, Mar Ivanios College	22	"
5	Aswathy Chand. A.C, Arts College	22	"
6	Sagar.P.S, Fine Arts College,Tvm	Painting	First
7	Gopika.J, CET	Collage	

	National Youth Festival Hariyan 2014 February 18 <sup>th</sup> to 22 <sup>nd</sup>				
1	Srijith. S	Classical instrument Non-percussion solo	First		
2	Ajay Azeem,	Quiz	Second		
3	Naveen Kumar	Quiz	Second		
4	Sreeraj.N	Quiz	Second		
5	Pavi Sanker	Collage	Second		
6	Nayana Nair	Western Group Song	Third		
7	Madhuri Sajith	"	"		
8	Sreekanth Hariharan	"	"		
9	Karun John Santhosh	22	"		
10	Vishnu Narayan	22	"		
11	Silpa Murali	22	"		
12	Vinod.G	Skit	Third		
13	Sonu.S	27	"		
14	Sarathkumar	22	"		
15	Aravind R.Puthussery	22	"		
16	Aswathy Chand	22	"		

17	Arya.S.Kumar	"	"
18	Bhairavi. M.R	Folk Orchestra	Third
19	Arya. S. Kumar	"	"
20	Aaruni. S	"	"
21	Sreedevi.S	"	"
22	Nayana Nair	"	"
23	Srinath.S	"	"
24	Srijith.S	"	"
25	Kishore	"	"
26	Sarga Murali	22	22

**5.3.3.** Does the University conduct special drives / campaigns for students to promote heritage consciousness?

The heritage buildings in the campus are preserved, so also the natural heritage of the campus is retained. Heritage consciousness as well as cultural integration programmes are organised by study centres like Sree Narayan Study Centre, Centre for Vedanda Study Centre, Christian Study Centre, and the Centre for Gandhian Thoughts.

The Oriental Research Institute and Manuscripts Library, which has an invaluable collection of rare and precious manuscripts, has been made the State Nodal Agency for the preservation and documentation of manuscripts. A Digital Heritage Archiving Centre also function in the Library.

The Departments encourage the students to wear traditional dress during festivals like Kerala Day, Vishu, Malayalam New Year, Onam, Christmas and Ramadan and organize celebrations involving all the students every year. Onam feast and pookalam, Christmas and New Year celebrations and Iftar party during the holy month of Ramzan are regularly organized by students in the department with contributions collected from staff and students.

**5.3.4.** How does the University involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other materials? List the major publications / materials brought out by the students during the last four academic sessions.

Wall magazines are maintained by the students to communicate recent developments in the field and to exhibit their creative work. Some departments

have student magazines, club magazines and journals. All colleges have college magazines.

**5.3.5.** Does the University have a Student Council or any other similar body? Give details on its constitution, activities and funding.

Yes, it's called the Students Union. It comprises of Chairman, Vice Chairman, General Secretary, Secretary and Executive Committee Members elected from the students' community through election. Various academic, cultural and social activities are carried out by the Union.

**5.3.6.** Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.

Students' representation has been ensured in the Syndicate which is the chief executive body of the University, Senate and also in Academic Council, the highest academic body of the University. The Student representatives do participate on issues relating to policy formulation specially on issues relating to students and researchers. They provide input on.

- 1. New courses
- 2. Teaching learning methods
- 3. Evaluation system.
- 4. Infrastructure and so on

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### List of Appendices

- 1. Sports Calendar for the year 2014-2015
- 2. List of Achievement in cultural activities
- 3. List of Achievement in Sports
- 4. List of Scholarships and awards

# CRITERION VI GOVERNANCE, LEADERSHIP AND MANAGEMENT

# GOVERNANCE, LEADERSHIP AND MANAGEMENT

# **6.1.1** State the Vision and the Mission of the University

# **Vision of the University**

The visions stated in the original Travancore the University Regulation 1937:

To effect reorganisation of the system of education in the State with a view to the gradual development of technical and technological education;

To make greater and more systematic provision for the furtherance of original research in various branches of science including applied branches and technology

To cater to the conservation and promotion of Kerala Arts and Culture.

In 1957, the Kerala University Act, Act 14 of 1957, was brought into force and the University of Travancore has since been renamed as the University of Kerala. The University is determined to march with a clear vision about the future development. In 2003, it prepared a Vision Statement, which have already been appreciated and acknowledged by the previous NAAC Committee. The vision statement emphasises the following:

To have institutional autonomy and academic freedom

To have strong but impartial public governance

To be campus rooted but internationally oriented

To be knowledge based and student centred

To be research driven and learning focused

To be quality and cost conscious but socially responsible

To be technologically sophisticated but community dependent

To be professionally attuned but humanly sensitive and above all

To be publicly accountable and socially committed

These visions were concisely read in the "Karmani Vyajyate Prajna" as noted in the logo of the University. It means that the intellect or knowledge reveals itself only through action. The motto is upheld in the performance of the University right from the beginning. The mission of the University is to spread knowledge through meaningful scientific intervention in all walks of life. The adoption of this vision is from the *Panchathantra* fables and is most appropriate to ignite the minds of anyone without discounting the age and capacity of their intellect.

# Mission of the University

The University of Kerala pursues its vision by creating an academic community that educates the whole person, making student learning the central focus, continuously improving the curriculum and co-curriculum,

strengthening the scholarship and creative work, and serving the communities of which we are a part in Kerala and around the world. More specifically, the mission of the University includes:

To emerge as a centre of academic excellence through holistic education and development of right skills

To be recognized as the hub of original research and innovative thinking that caters to the needs of the Industry and Policy Makers

To strengthen the Consultancy services of the University through a full-fledged The University Industry tie-up and thereby tap resources of the Industry for its teaching, research and extension services

To actively respond to the momentous issues of our society and sociopolitical environment of the world

To transform our traditional the University into a the University of global standards that makes significant contribution an international level

To ensure that Departments and centres in the University have autonomy within the frame work of the established system and facilitate the same choice to the affiliated colleges.

To produce young entrepreneurs who can provide job opportunities rather than be job seekers

To be known across the globe for the diversity of its teachers and students, and the quality and employability of its graduates, in diverse fields

To produce internationally known leaders, scholars/scientists and sports persons

6.1.2. Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks it serve, the institution's tradition and value orientations, its vision for the future etc.?

Yes, to achieve its vision, the University of Kerala has formulated a mission plan, which defines the institution's distinctive characteristics as detailed below:

# **6.1.2.** a. Addressing the Needs of the Society

The University's engagement with Extension and Outreach Programmes through its well established centres like Centre for Astronomical Observatory, Centre for Adult Continuing Education & Extension, School of Distance Education, Centre for English Language Teaching, Centre of Gandhian Studies, Centre for learning Difficulties and Disabilities, Centre for Performing & Visual Arts, Centre for Rural Studies, Centre for Vedanta Studies, Centre for Women Studies, Dr. B.R. Ambedkar Chair, Population Research Centre, Raja Ravi Varma Centre of Excellence for Visual Arts, Sree Narayana Centre for Social Change, Survey Research Centre, UGC Nehru Study Centre, V.K.Sukumaran Nair Chair for Parliamentary Affairs, Raja Ravi Varma Centre for Excellence for Visual Arts, National Social Services, and many other centres define the University's distinctive characteristics in

addressing the needs of the society. The establishment of the Centre for Learning Difficulties and Disabilities reflects the University's concern for the differently-abled. The University Employment Information and Guidance Bureau exclusively addresses the professional expectations of students and the Department of Physical Education provides coaching and guidance and the Department of Student Services provides coaching and guidance and prepares our students to face different competitive examinations at the State, National and International levels.

The University further carries out its mission of providing education in terms of inclusivity, access and equity through its Teaching Departments (42), Affiliated Colleges (244) (Government, Aided, Unaided, and Self financing Colleges) and SDE's Learners Support Centres both in Kerala and outside Kerala. The Department of Geology conducted an 11 day (Jan. 4 2014 to Jan. 14 2014) exhibition, GEO EXPO in connection with earth science awareness programme for school students and public. About 5000 school students, teachers and public witnessed the Expo. As an outreach programme, the Department of Commerce organised a Financial Literacy Programme for Tribal people in Wayanad district in November 2013. The Department of Aquatic Biology and Fisheries continuously interacts with the fishermen community and provide necessary support in their fishing occupation. They launched a web portal <a href="http://keralamarienelife.in">http://keralamarienelife.in</a> containing information on biodiversity which is useful to society. Thalakshra, an exhibition by ORIML, Film festivals by English Department, Documentary Film Production by Malayalam Department and Journalism Department, action on social issues like HIV/AIDS by Futures Studies Department, Legal Awareness Programme by Law Department, Heritage Walk hosted by History Department, Micro Credit System for Local People by Commerce Department, A Student's Talent Hunt programmes "PRODIGY" by Economics Department, Video CD by Bioinformatics Department, Faculty and Research Scholars visit and talks in schools, colleges and institutions like NISH, Cheshire Home etc. are some of the initiatives taken by the various Departments of the University to address the needs of the society (These are discussed in detail in Community Engagement, 6.2.1.d).

### 6.1.2. b. Students it seeks to serve

The University's commitment to the student community is evident from the representation that it gives to student in various apex bodies of the University like Senate, Syndicate, Academic Council etc. In addition to Students 'Council, the Syndicate Standing Committee on Students' Discipline and Standing Committee on Students' Service also look into the needs of the student community. Moreover, its mission plan ensures that the academic activities are at par with national and international standards. As the mission plan elaborated on the revival of academic activities, The University semesterised its Degree, PG, M Phil and revamped Ph D programmes. To reorganize the conduct of academic programmes, The University adopted the School system. Departments and many Centres are elevated to the status of Schools and Departments respectively. To reassert the goal of improving technical knowledge, the University started many Science and M Tech. Courses under different faculties. This extended to Social Science and

Language departments. The collaboration with foreign universities and international agencies enrich the academic and administrative environment of the University. Keeping in mind the demand of stakeholders, the University starts innovative and new courses, affiliating new institutions. Moreover, the University has started new Engineering Colleges, various centres for its Institute of Management, the University Institute of Technology, Teachers Training Centres, Study Centres of Distance Education and Facilitating Programmes for Continuing and Adult Education.

To make library facilities accessible to students, the University revived the library system though collaborating with Inflibnet, updating its technological support through LAN and WAN system, facilitating access to online journals, keeping microfilms and CDs in archives, uniform catalogue and barcode system to make the books and journals accessible. It had already procured an extensive collection from the Cambridge the University Press, Wiley Online Library, SciFinder, and J-Gate- gateways to e-literature from across the globe. Very recently, the KUL has moved away from Libsys, a library management system, to Koha which is a more cost-effective open source solution that enables resource sharing between Departments of the University.

By adopting latest information technology, the University provides foolproof certificates with hologram; installation of IVR system to improve the accessibility, transparency in examinations is another student friendly initiative of the University.

District and Taluk Information Centres are started with the objective of helping students to obtain information from the University. Now 3 District Centres and 12 Taluk Information Centres are functioning to serve the students. The Centre for Career Guidance, Placement Cell, Hostel, Canteen, conduct of sports meet, conduct of Youth Festival separately for Affiliated College Students and The University Department Students, cultural activities etc. are the other initiatives taken by the University to fulfil their commitment to students as outlined in the Mission Statement of the University.

### 6.1.2. c. Institution's Tradition

The University of Travancore which eventually became the University of Kerala was established in 1937 by a promulgation of the Maharaja of Sri Chithira Thirunal Balarama Varma. Sri Chithiria Thirunal Balarama Varma was the first Chancellor of the University and Sir C.P. Ramaswamy Ayyar, the then Diwan of the State was its first Vice-Chancellor. It was the sixteenth the University to be set up in India and ten colleges within the State of Travancore which were affiliated to the Madras the University became the affiliated colleges of the University of Travancore.

The University had three Campuses located in three different parts of the State, namely, Thiruvanathapuram, Ernakulam and Kozhikode. In 1968, the University centre at Kozhikode became a full-fledged the University covering the Colleges and Departments located in Thrissur, Palakkad, Kozhikode and Kannur district in Kerala. The Cochin University of Science and Technology and the Kerala Agricultural University were set up in 1971 and in 1983 the Mahatma Gandhi University was established. With the

establishment of these Universities, the area of the jurisdiction of the University of Kerala has been limited to Thiruvanathapuram, Kollam, Alappuzha districts and some part of Pathanamthitta district.

Publication facilities of the University brought many classical works such as *Hortus Malabaricus*, Books on Cultural and literary personals in Kerala, Malayalam Translations, International Centre for Kerala Studies (ICKS) publications, and many more including the History of the University of Kerala.

Selecting the University of Kerala as one of the sixteen India Study centres by UGC shows the acceptance and recognition of the University. In the highway of specialization, the University of Kerala is competent in building and initiating many specialized centres, elevating many as independent departments or schools. Honorary Degrees o the University such as D. Lit. and D. Sc. greatly revered by the academic community across the world. The University has been publishing, the Journal of Indian History from 1946 and is recognised as, a significant publication on historical studies and research. The University is the first in the state to have a synthetic track. In 2012, the University celebrated its Platinum Jubilee. In addition to several academic activities, a documentary film titled 'The Mother the University' was produced. All these attest to the kind of footprint the University of Kerala leaves in its historical long journey from 1937.

### **6.1.2.** d.Value Orientations

The University ensures a sound value system within the University through the following steps:

- 1.Promoting transparency to improve accessibility, fairness in handling of examinations and grievances of students. At the UG level, there is a provision for fairness and justice through third valuation if asked for. At the PG level, there is a provision for recounting and recall of papers if necessary.
- 2. Promoting social justice to everyone through the process of reservation in the admission process, faculty and other administrative staff appointments.
- 3. Respecting human rights and the rights of women and children through Women Cell, Sexual harassment Cell and Nursery School.
- 4. Respect for Environment and Environment Protection through the adoption of a Green Charter

In addition, a number of activities and programmes are organised by the Departments, Centres, Student's Union andthe University Union to nurture and enrich value systems and promote value-oriented education. As stated in the mission statement, these activities help in inculcating aesthetic, cultural and moral values, upholding values of tolerance, co-existence and cooperation, mutual respect and appreciation of each other.

# 6.1.2. e. Vision for the Future

The University of Kerala seeks to be a winner in the Global Competitive Environment through excellence in Education, Research,

Consultancy and Extension activities with value-based nurturing of the youth. Research Portal, Smart Classrooms, Wi-Fi enabled campus including Hostels, Multi-disciplinary studies, Video conferencing facility etc are other initiatives of the University in attaining its Vision. The University has revamped it Under Graduate stream by introducing the Choice Based Credit and Semester System in Affiliated Colleges. The courses in the University Departments are conducted in the Credit and Semester System, while the Post Graduate Courses in affiliated colleges follow the Semester pattern. The 42 Departments in the University have now been reorganised into eleven schools.

Thus, the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, and its vision for the future.

# **6.1.3** How is the Leadership Involved?

# **6.1.3.** a. In ensuring the organisation's management system development, implementation and continuous improvement

The Chancellor, the Pro-Chancellor, the Vice Chancellor, the Pro Vice Chancellor, and the members of the Senate, the Syndicate, Academic Council and Board of Studies constitute a body of the University who regularly interact to frame suitable leadership policies to lead the University as a team for its academic growth. The Vice Chancellor is the chairman of the Senate, Syndicate, Academic Council, CSS and IQAC. The Vice Chancellor is also the chairman of all selection bodies constituted in the University.

The University has a clear management system in place to chart the road map of development and perspective planning to be innovative. The University's management structure ensures continuous improvement by:

- o involving in coordination and interaction with students, faculty and other staff with the objective to ensure smooth functioning and bestowing excellence within the system.
- involving in motivating and encouraging the faculty to give the best and to build a team spirit among the faculty members in all the departments.
- o interaction with the stakeholders to keep the system vibrant.
- regular consultation with the faculty members through various statutory bodies to give right direction in setting the pace for the future

# 6.1.3. b. In Interacting with its Stakeholders

Stakeholders' representatives of the University are members of various statutory bodies and various committees. Such committee meetings are held regularly and views of all stakeholders given due space. Students interact directly with the faculty and the Heads of Departments. All faculty members have direct access to their Heads, Deans, Registrar and Vice Chancellor. All

office staffs have direct access to their Section Officers who in turn interact with the Assistant Registrar, Deputy Registrars and the Registrar. All other stakeholders like parents and members of the public have direct access with the teaching departments and administrative sections.

While interacting with the stakeholders, the leadership essentially plays the role of facilitator to ensure a win-win situation to all the stakeholders in the long run. The interactions primarily take place by way of formal gatherings as well as informal interaction on all available platforms.

# 6.1.3. c. In reinforcing a culture of excellence

The University attempts to refine and define the parameters of excellence at all levels, which include academics, organising seminars and conferences, student empowerment and maintenance of support services. The major initiatives in this direction are listed here:

The curriculum is designed in such a manner that students have enough opportunities to engage in activities outside the classroom-learning environment.

Students obtained marks for seminar presentations as well as written assignments.

They are also exposed to emerging areas of research by conducting seminars/workshops in the frontier areas and for interaction with the students.

Eminent persons are invited to deliver lectures in frontier areas.

Students are encouraged to participate in national and international seminars.

The Research Council is actively engaged in promoting the quality of research through continuous interaction with research scholars.

IQAC under the chairmanship of Vice Chancellor has a proactive role in increasing the quality of teaching learning process through teacher evaluation by students.

Awards and recognition of Departments, Teachers and Researchers is a healthy practise and this instil confidence to the students and there is academic bonding among students that helps in engaging with the learning process in the University system.

The University collaborates with various institutes in India and abroad for multidisciplinary international research projects. These initiatives reinforce a culture of excellence in the University.

# 6.1.3. d. In identifying organizational needs and striving to fulfil them

The University identifies organisational needs and strives to fulfil them democratically with committed participation. This is achieved through many subcommittees and meetings that address the needs of the institutions. The main committees in place to ensure the smooth work of the University include:

- 1. Standing Committees on Finance,
- 2. Standing Committee on Staff, Equipment and Buildings,
- 3. Standing Committee on Affiliation of Colleges and Courses of Studies,
- 4. Standing Committee on Examinations,
- 5. Standing Committee on Research and Scholarships,
- 6. Standing Committee on Planning, Development and Administrative Reforms,
- 7. Standing Committee on Library, Publications, Seminar, Conference and FIP,
- 8. Standing Committee on Teaching and Non -Teaching Staff of Private Colleges,
- 9. Standing Committee on Kerala the University Colleges of Teachers Education, UITs and Information Centres,
- 10. Standing Committee on Students' Discipline,
- 11. Standing Committee on Students' Service, and
- 12. Standing Committee on IMK.

The faculty members, PTA and Alumni in the University and the affiliated institutions are pro-active in establishing linkages with stakeholders as well as interacting with them. The Senate and Syndicate is the vital link with the public and emerges as a democratic link with external agencies and Ministries of State and Centre which helps the University in channelizing funds for infrastructural development. Table 6.1 clearly illustrates that over a period of six years there is a fivefold increases in the amount collected for infrastructure development: Rs. 4.50 crores in 2008-09 to Rs. 21.50 crore in 2014-15. Over a period of six years ,the University could mobilise Rs.85 crore from different funding agencies including UGC.

Table 6.1: Amount Mobilised for Infrastructure Development

Year	Amount (crore)	Index
2008-09	4.50	100
2009-10	10.00	222
2010-11	12.00	266
2011-12	17.00	377
2012-13	20.00	444
2013-14	21.50	477
Total	85.00	

Source: Planning and Development

# 6.1.4. Were any of the top leadership positions of the University vacant for more than a year? If so, state the reasons.

There is no vacancy in the top leadership positions of the University for more than a year

# 6.1.5. Does the University ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes, the University always ensures that all positions in the various statutory bodies are filled and meetings are conducted regularly. The meetings of such policy-making bodies held during the last five years are illustrated in Table 6.1.

**Table 6.1:** Meetings of Decision Making Bodies

<b>D</b>	No. of meetings held				
Decision making body	2009	2010	2011	2012	2013
Syndicate	18	4	10	14	15
Senate	5	3	6	3	5
Academic Council	4	3	3	4	3

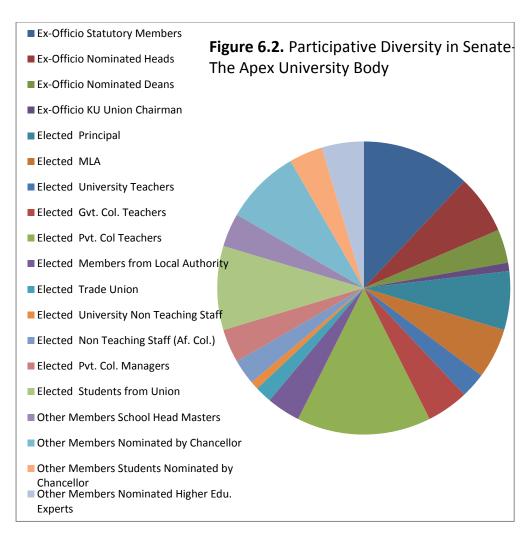
Source: Annual Reports (2009-2013), the University of Kerala

The Syndicate meetings are held frequently, on an average once in a month. The other decision making bodies like Faculty, Board of Studies, Department Councils are also held quite frequently for the smooth conduct and working of the University Departments, the University centres and its affiliated colleges.

# 6.1.6 Does the University promote a culture of participative management? If yes, indicate the levels of participative management.

Yes, as illustrated in fig.6.1. almost all stakeholders' representatives including students' representatives are there in the highest decision making body of the University, i.e. **Senate**. Their representatives are there in the **Syndicate** and **Academic Council**. Along with other stakeholders, Deans' representatives and HOD's representatives are also there in these three top decision making bodies of the University, i.e. **Senate**, **Syndicate and Academic Council**.

All matters of importance are discussed and dealt with in the Dean's / HOD's committee on most occasions; the day to day functioning at the department level is ensured by the **Departmental Council** with participatory management. Headship is rotated every three years to ensure total participation among faculty. The representatives of students and faculty members are in the Syndicate, Senate and Academic Council which are the statutory bodies. The University ensures participative management in its Syndicate, Senate, Academic Councils, Faculty, Board of Studies (separate for PG and UG) and Department Councils. A miniature form of the inclusiveness in the Senate, the apex body of the University in any matter of decision is depicted in Figure 6.2.



# 6.1.7 Give details of the academic and administrative leadership provided bathe University to its affiliated colleges and the support and encouragement given to them to become autonomous.

The representatives of affiliated College Principals, Managers, Teachers and Students are the members of the University's highest decision making bodies like Senate, Syndicate and Academic Councils. They become a part of the academic and administrative leadership of the University. It stimulates a feeling of collective responsibility. In addition, the University has Affiliation Committees which regularly visit each affiliated colleges to assess infrastructural and academic requirements before granting permission to commence new courses and colleges. This further stimulates the principal, manager, and teachers to give necessary guidelines to their colleagues in connection with starting of new courses or colleges which indirectly promotes the spirit of leadership.

The procedure to accord autonomy to deserving colleges was laid down in the recently ordinance of the University. It facilitates the process of colleges becoming autonomous. Academic Council and Senates scrutinize all proposals of institutions seeking affiliation without prejudice. The University teachers provide academic leadership to affiliating colleges in the following ways: Acting as members of UG&PG Board of studies in such autonomous colleges, Dean of Faculties chairing seminar sessions in colleges, supporting

teacher training in the Academic Staff College and organizing workshops and seminars for college teachers. The University teachers also support the colleges in curriculum design and examination processes.

# 6.1.8 Have any provisions been incorporated/introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

The University of Kerala just started the process of giving autonomous status to colleges and as a first step the University has inspected and recommended to the Government and UGC to give autonomous status to three colleges shortlisted for the purpose.

# 6.1.9 How does the University groom leadership at various levels? Give details.

Apart from provision of membership in all the decision making bodies of the University like Senate, Syndicate, all teaching staff, non-teaching staff and technical staff have their own democratic associations and their representatives participate in the decision making process. Rotation of headship, the participation of the Dean of faculty in administration inculcates leadership quality among teachers. Teachers and non-teaching staff participate in the activities of various Associations/Organizations. This often creates a sense of responsibility sharing, partnership building, and joint ventures through a democratic procedure, share a common platform within the University community promoting active participation which creates opportunities to groom an efficient community. Departments' union, and Researchers' union, groom leaders to represent the entire students' fraternity. Apart from that, the organizations like NSS; NCC etc. also groom the sensibility and leadership of students in the University Departments and its affiliated colleges.

The University also takes steps to organize orientation, training and soft skill programmers for employees, faculty members, students and other stakeholders: Agencies/Programmers like IMG, FLAIR, ASPIRE are some of them. Our teachers act as the coordinators of these programmers. Our teachers also act as the coordinators of Refresher Courses and Orientation Programmers conducted by the Academic Staff College. A good number of the University teachers act as the Directors of Centers constituted by the University. Teachers also actively participate in students' extracurricular activities like sports and games, Student Union elections etc. All these steps go a long way in grooming leadership qualities among teachers, non-teaching staff and students of the University.

# 6.1.10. Has the University evolved a knowledge management strategy? If yes, give details.

Yes, the University has over the years evolved a knowledge management strategy to maximize its competency to perform effectively and efficiently towards higher productivity. Accordingly several initiatives have been taken by the University. Some major initiatives are discussed here:

- 1. The University of Kerala has an Intellectual Property Management Cell which discusses issues relate to IP and has drawn up an IP policy to cater to the wide range of needs. The elements of knowledge management strategy are outlined and this is under consideration for adoption bythe University.
- 2. Students are equipped to participate in the University level as well as State level debates, elocution, literary competitions etc. through the continuous efforts from the University Faculty and Students 'Union.
- 3. Knowledge dissemination through ISSN and ISBN publications of high repute and following the directives of UGC/The University, seminars/conferences/workshops etc. are held frequently in the University departments and its affiliated Colleges.
- 4. Students and faculty can make use of the e-resources subscribed through INFLIBNET facility in the University
- 5. Knowledge created and generated in the University are documented and archived in the University Central Library, Palayam are made available through electronic and print media to all sections.
- 6. The Manuscript Library at Kariavattom Campus is distinctive and has a rare collection. The Manuscript library of the University is a storehouse of knowledge and even scholars from foreign countries visit it quite frequently.
- 7. The facility of online referencing of thesis just started by the University adds to the knowledge dissemination beyond boundaries.
- 8. The IQAC which got the status of a statutory bodytakes care of the quality of all academic and knowledge oriented activities of the University.
- 9. The Future Studies Department of the University has started an Post Graduate Diploma programme in Knowledge Management.
- 10. The University's web site <u>www.keralauniversity.ac.in</u> offers several services like downloadable application forms, question papers of past examinations, free resource links, on line catalogue on Library and list of recognized Degrees of other universities.
- 11. The system for automated governance of examinations (SAGE) developed by the Computer Centre is a unique facility which has enabled online registration and e-payments for examinations.

All these steps are the major milestones in the knowledge management strategy of the University of Kerala.

# 6.1.11. How are the following values reflected in the functioning of the University?

# **Contributing to national development**

The University of Kerala is sensitive to the educational requirements of the people from various parts of the state with the objective of achieving the required gross enrolment ratio with the support of its teaching departments, centers and affiliated colleges under its jurisdiction. It indirectly resulted in manpower mobility, i.e. a large number of our alumni are serving as teachers, nurses etc. in foreign countries and earn foreign exchange which help in the national development of our country. It also increased the quality of life and health standards in our state. Further, under the auspicious of the Departments and Centres seminars and discussions are organized on themes of national importance. Faculty members of our University are invited by funding agencies to undertake major research projects of national importance. In addition, many faculty members are invited to chair sessions at national and international conferences, deliver invited talks, and conduct of Ph.D. Viva Voce from different parts of the country. Some of our Departments are participating in collaborative programmes with Govt. of India and Govt. of Kerala. For instance, the Department of Demography is collaborating with the Census Directorate of the Government of India; the Department of Environmental Science is collaborating with the Government of Kerala for auditing the river sand of the rivers in Kerala and Environmental Impact Assessment of Clay mining sites in Kerala. Again, the Department of Optoelectronics has reserved two M.Tech.seats for scientists and other officers.

# 6.1.11. a. Fostering global competencies among students

The Student Exchange Programmes recently introduced in the University with some high profile Universities in the USA will go a long way in fostering global competence in our students. As a mutually beneficial exercise, the first batch of students from USA completed their course of study for one semester in our University. In addition, students are encouraged to take up online courses foreign universities, participating in the online discussion forums and groups, attending live lecture-cast from some prestigious scientists or writers outside India, giving online presentations in International Conferences, and Seminars.

### 6.1.11. b. Inculcating a sound value system among students

An informal but very strong culture of instilling valuesystem prevails in the University. Students imbibe values by way of experience and interaction with their seniors in Departments, hostels and cultural bodies in the campus.

Another step aimed at inculcating value system is the introduction of courses dealing with humanities and essentials of religious teachings as part of the curriculum at UG level in its affiliated colleges and centres. The University supports Centres like Christian Study Centre for Cultural and Social Change, Centre for Cultural Studies, Centre for Gandhian Studies, Centre for Vedanata Studies, Centre for Women's Studies, Dr.B.R. Ambedkar Chair, Sree Naryana Centre for Social Change, UGC Nehru Study Centre etc.UGC Area Study Centre for Canadian Studies etc. with the basic intention of inculcating a value system among its students.

# 6.1.11. c. Promoting use of technology

The University has an IT Policy as a part of promoting the use of technology among its students, teachers and administration. Apart from availability of computer lab with internet facility for students in the Departments, Centres, Hostels and PCs for faculty, the University has completed the process of building IT enabled classroom (Smart Class room) spread over different departments. The teachers are also encouraged to have their own websites and upload their lectures and reading materials accessible

through internet. Online publication of souvenir and journals are also promoted in the University Departments. Computerization of the University office and examination wing is almost over and will be accessible to all students of the University and affiliated colleges. The University has successfully introduced online system of application for admission to UG and PG programmes of its affiliated colleges which helps the students a lot as they could save time and effort in sending multiple applications to different colleges at the same. The introduction of online admission makes the entire process transparent and error free. Campus-wide availability of Wi-Fi further promotes the use of this technology.

# 6.1.11. d. Quest for Excellence

Interaction and collaborative events are held regularly with industry associations and professional bodies. Invited talks by experts are also arranged frequently. Campus wide Wi-Fi facility, soft class rooms, online reference facility, extension of library time (8 am to midnight 12.00), recognition of performing Department (Best Department Award), Best Thesis award(Bhashaykkoru Dollar), Best Paper award etc. will ensure that there is excellence in teaching and research work in the University.

# 6.2. Strategy Development and Deployment

The University realizes its unique place in informing and directing process of knowledge management, as well as set a role model for others while adopting suitable methods for strategy development and deployment. Knowledge portfolio, knowledge exchange, interdisciplinary research, creativity plus leadership skills etc. are the specific areas in which the University gives its stress for strategy development and deployment. Planning and Development Cell of the University under the charge of a full time Director takes special interest in this regard.

# 6.2.1 Does the University have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

Yes. The University of Kerala has a perspective plan for development which has been formulated based on the Vision and Mission of the University and is the guiding force that helps the University Departments, Centres and its affiliated colleges to plan their activities. The Planning and Development Cell and College Development Council jointly prepare the perspective plans and policies based on the activities proposed by various schools, Departments and its affiliated colleges for the calendar year. This action plan is submitted to the Senate for approval and implementation.

The Syndicate monitors and reviews the plans/ projects implemented by holding formal and informal dialogues with the Deans, Heads and Principals of Colleges, from time to time.

### 6.2.1. a. Vision and Mission:

The vision and mission of the University ultimately leads to imparting quality education that focuses on Empowerment through Learning and Enrichment through Research. In line with the vision, Choice Based Credit System (CBCS) for Bachelor Degree programmes and Credits and Semester System for Post Graduate programmes were introduced. New programmes like

M.Phil. Knowledge Management, M.Tech. programme by Opto-Electronic Department and Futures Studies Department have been promoted and seats for most programmes were increased.

# **6.2.1.** b. Teaching and Learning:

Teaching and learning is of utmost importance in our University Departments and its affiliated colleges. In order to provide practical experience to students in exploration and excavation techniques, Departments and affiliated colleges offer compulsory field training. The University strengthens its existing academic programmes by strengthening library and laboratory facilities and by introducing new courses in the frontier areas. The needs of the Industry are also taken care of while revising the curriculum. The CSS supervises the continuous assessment of PG and M.Phil. programmes of the University departments where innovative teaching and learning methods are imparted.

# **6.2.1.** c. Research and Development:

The University has a Research Development Council which facilitates the research of the University Departments, Centres and affiliated Colleges by linking to Research Organizations. Accordingly the University encourages research activities especially through various research projects run by the faculty members. These research projects seek participation and expertise at various levels nationally and internationally. In addition to this, dissertations submitted at the Post doctoral, Ph.D., M.Phil.andP.G. levels do contribute to discovery of new ideas or issues that are taken up by future researchers.

# **6.2.1.** d. Community Engagement:

The Specific Programmes/Schemes implemented by the University as a part of its community engagement are discussed here:

**Film Festivals** (English): The Institute of English has a very vibrant film club, which functions not only as a mode of extracurricular activity for the students but seeks to study the rich field of popular culture in Kerala and India. In association with the Centre for Cultural Studies, a number of programmes have been hosted. There are regular film screenings and discussions that have curricular dimensions in helping students study how narratives function in film as in literature. A Campus Film Festival at an all Kerala levelwas also held in last year.

Marine Life Web Portal: An interdisciplinary project by the Department of Aquatic Biology and Fisheries and the Department of Computational Biology and Bioinformatics supported by Kerala State Council for Science, Technology and Environment (KSCSTE) launched a web portal <a href="http://keralamarinelife.in/">http://keralamarinelife.in/</a> which contains information on marine biodiversity which is useful to society.

**Thalaakshara** (ORI): The Oriental Research Institute and Manuscripts Library which has a unique collection of over 60,000 manuscripts has been holding exhibition to disseminate knowledge about these manuscripts to the general public. This exhibition titled 'Thalaakshara' is held for two months and a large number of students from schools and general public have been visiting and getting knowledge about the manuscripts.

Acquiring Manuscripts & Free Service to needy: The Oriental Research Institute and Manuscripts Library realizing the fact that there are many families, who possess very rare manuscripts, prompt these families or persons to contribute the manuscripts to the library. In the event of the persons or families who are not ready to part with the manuscripts in their possession, the manuscripts library offers free service for proper preservation of the same.

**Popular Science Articles (Corona-A compilation):** Many popular science articles have been written by DCBians in popular technical magazines. They have been compiled and published under the caption 'Corona' in 2013.

Programmes for school Children/Children of campus community

- i. Innovation in Science Pursuit for Inspired Research (INSPIRE) is a unique programmes initiated by the Department of Science and Technology, Govt. of India to attract young talent towards advanced studies and research in basic sciences. From the year 2011 onwards, the University organizes Summer Camps for about 100 students selected from the top-scoring SSLC students from the state. Leading scientists in India interact with the students in the camp.
- ii. Inculcate-A Science Propagation Programme of Kerala State Science & Technology Museum organized through the Universities in Kerala. The objective is to catch potential scientists at a young age and nurture their inborn talents for scientific learning and research. Residential Training Programmes are organized by the University annually for the students selected from the Government and Aided Schools in India and the selected students are attached to the faculty, who serve as mentors for the students.
- iii. **Balasasthra Congress of Kerala Sastra Sahitya Parishad** was organized in the University Campus (Kariavattom) in the year 2010 for about 100 selected students and they were attached with the Departments of Aquatic Biology and Fisheries, Botany, Biochemistry, Biotechnology and Environmental Sciences.

**Extension Activities** by the Teaching Departments: For school students and common public various extension activities are launched. Amusing aspects of science, crafts, games and green activities are incorporated in the extension programmes. Experienced science communicators are also invited to conduct the classes apart from the faculty and research scholars of the department. The following are some of the outreach programmes.

**One Day/ Fun day:** A one day event to foster creativity and science in school children is organized every May since 2008. More than 50 students from class I to IX participate in the programme.

**Visits**: Faculties and research scholars visit and deliver popular science talks in schools, colleges and in institutions like National Institute for Speech & Hearing(NISH), Cheshire Home, Higher Secondary Schools, and Colleges.

**Schools**: When the University hosted Nobel Laureates, their interaction with the public and school children was arranged.

**Video CD by Bioinformatics Department:** A video CD introducing the subject of Bio-informatics targeting students who wants to study the subject in a distance education mode was prepared by the department of Bio informatics in 2012.

**'Prodigy' by the Department of Economics:** The Department of Economics and its MA students organize annually a student's talent hunt programme "Prodigy". The programme has a wide reach among various institutions in and out of the University of Kerala, which sets it apart.

**E-journal publishing**: The department of Journalism and Communication has been publishing it student journals in the form of e-journal format named 'Kalari'.

Action on Social Issues: In the early nineties, when HIV/AIDS developed into a pandemic, Futures Studies Department carried out a number of research projects on the same issue associating with different agencies including doctors working in the area, which was acclaimed internationally. One such work 'Anticipatory crisis management of HIV/AIDS' caught wider national/international attention. The Department carried out an epidemiological study on Chickun Gunya associating with National Institute of Virology, Pune. The Department also conducted research on stress management of IT workers as well as pain mitigating aspects of cancer patients.

The other major initiatives in this direction include:

Legal Awareness Programme by Law Department

Heritage Walk hosted by History Department

Micro Credit System for local People by Commerce Department

Documentary Film Production by Journalism and Malayalam Department

GEO EXPO by Geology Department

Financial Awareness Programme among Tribal people by Commerce Department.

Assessment of Water Needs of a Panchayat in Kollam district by Geology Department.

# 6.2.1. e. Human Resource Planning and Development

The Standing Committee on Planning Development and Administrative Reforms chaired by a Syndicate Member take care of the human resource needs of the University. Teachers are given support to attend training programmes, workshops and seminars for development of competencies and networking. The University has recognized the needs of the times and as monitoring mechanism introduced Academic Audit. This audit takes care of the planning and development needs of the academic community in the University. A Placement Cell is also functioning in the University to help its students get better placement after their course of study and research. Short term training programmes for administrative staff are frequently held by the Academic Staff College of the University. External agencies like IMG, CMD etc. also provide short term computer training and other administrative skill

development programmes for non-teaching staff. Above all, the perspective plan of the University proposes short term and long term training and Induction programmes for the Principals and Teachers of its affiliated colleges through the Academic Staff College of the University.

# **6.2.1. f. Industry interaction**:

Interaction with industry is actualized through seminars, workshops, internships, research, and consultancy projects. Along with academicians people from the Industry are also asked to participate in these programmes. Surveys by industrial organizations are envisaged for relevance and need assessment of courses. Summer training and placements are also made possible through Industry-the University interaction. The University invites people from industry for curriculum design and in some cases industry people act as the Chairperson of the Board Studies, for instance. The Board of Studies of the Management Faculty is headed by the HLL chairman and CEO. Dr.Ayyappan. Guest faculties are also invited from Industry provide experts as practitioners in the field.

# **6.2.1. g.** Internationalization:

The major steps initiated by the University of Kerala in the development of policies and strategies related to Internationalization are listed here:

- i. **Admission in Academic Programmes**: Foreign students are admitted in the PG/M.Phil./Ph.D. programmes in the University Departments and Centres. Our students also have opportunity to continue their studies in foreign universities and colleges.
- ii. Semester–In-India programmeme (SIP): The University of Kerala successfully implemented the Semester-In-India programme. The students of four American Universities were admitted to a single semester of Master's programme in the University of Kerala. The students do a set of common core courses in the University and further choose courses from various departments of the University. These programmes have been economically viable and culturally enabling and it acted as a trigger of change in the University campus.
- iii. **Foreign Students Meet:** The University of Kerala organized the first ever foreign students meet at the University on December 7, 2013.
- iv. **International Youth Hostel:** In connection with its Diamond Jubilee Celebration, the University had constructed an International Youth Hostel in Thriuvanathapuram, which provides accommodation to foreign students of the University.
- v. Publishing History & Current Statistics of Foreign Linkages: To plan well for the international activities of the University, a history and current statistics of foreign linkages of the University of Kerala was compiled and published. This has given a solid platform to design the University's international activities.

- vi. Erasmus-Mundus Programme, Obama-Singh Initiative: The University of Kerala has been successfully running the Erasmus Mundus programme and later the EMINTE programme by the United Nations enabling scholars and teachers to visit nine European universities and attract students and scholars from these universities to the University of Kerala. At present, the University has also submitted an application for interaction with Green Valley State the University under the Obama-Singh initiative.
- **vii.** Collaborations: MoUs signed for exchange of teaching staff, creation of co-ordinated Teaching and Collaborative research with:

The University of Valladolid, Spain

The University of Paris

Natural History Museum, London

John Hopkins the University USA

Human Nutrition Centre, Beltsville Maryland USA

Claremont Graduate the University California, USA

International Atomic Energy, Vienna Austria

Montclair the University, New Jersey, USA

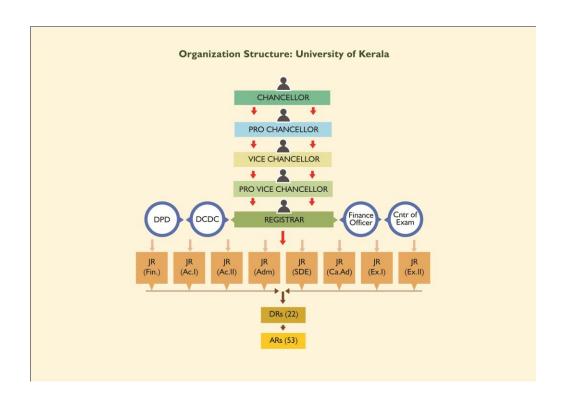
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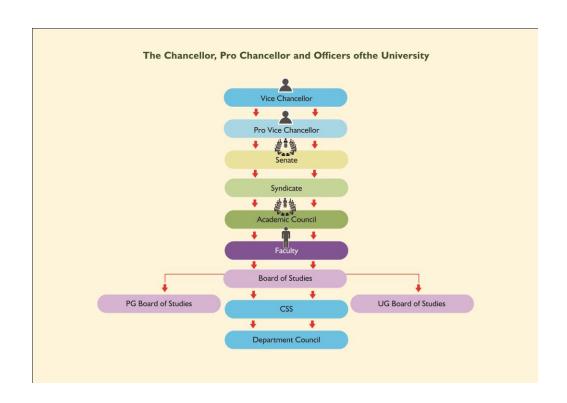
Queen's the University, Victoria, Australia - Faculty Visit

# viii. Membership of the University in:

- 1. Association of SAARC Universities
- 2. International Association of Universities
- 3. Association of Universities of Asia and the Pacific
- 4. Association of Commonwealth Universities
- 5. Association of Indian Universities
- **6.** India Member Council of Shastri Indo Canadian Institute
- **6.2.2** Describe the University's internal organizational structure and decision making processes and their effectiveness

The State University has the Chancellor and Pro Chancellor as the heads who steer the institution. The Vice Chancellor is the head of the institution. The Pro Vice Chancellor assists the Vice Chancellor in both academic and administrative matters. The Registrar is placed as the head of executive. The Registrar is assisted by Joint Registrars, Deputy Registrars, and Assistant Registrars as they head their concerned departments and sections. The details are given in fig.6.2.and 6.3.





The decisions in the University are taken in accordance with the provisions of the University of Kerala Act and Statutes, Ordinances, Rules and Regulations, Financial Code, Administrative procedures, Office procedure manual, Fundamental Rules and Supplementary Rules, General Financial Rule, Pension and Gratuity rules and other directives received from State Government, MHRD, UGC etc. Policy matters are decided at the level of Vice-Chancellor/ Senate /Syndicate /Academic Council/Finance Committee/ Faculty/ Board of Studies of the University.

The Senate, which is the upper most decision making body of the University consists 116 members both elected (84) and nominated (32) with ex-officio members. This body is the highest decision making authority both in terms of academic and administrative functioning of the University. It can review the actions of the Syndicate and Academic Council. The ex-officio members of the senate includes: The Chancellor, Pro Chancellor, Vice Chancellor, Pro Vice Chancellor, Finance Secretary to Government, DPI, DCE, Secretary/Additional Secretary to Government HED, IT Secretary to Government, DTE, Chairman SABE, Mayor of Trivandrum, seven Heads of the University teaching Departments and four Deans of Faculties and Chairperson of the University Union. Elected members include: Seven Principals from Government Colleges, Six members are elected from the Legislative Assembly, three teachers from the University teaching Departments, five members from government college teachers, sixteen members from teachers of private colleges, one member from each district by local authority, two trade union members, one member from non-teaching staff of the University, three members from the non-teaching staff of the affiliated colleges including one from government college, four members elected by the managers of private colleges, ten members from the council of the University union. Other than this, two headmasters and two teachers of schools situated within the University area, nine members from various walks of life which include recognised research institutes, cultural associations, chambers of commerce, industries, authors, journalists, lawyers, sports and linguistic minorities. Four students other than elected members are nominated by Chancellor from humanities, sciences, arts and sports. nominates five education experts. The composition of senate represents the fine blend of academic, intellectual and common aspirations of the people, which exhibits the democratic, representative and socially responsible mode of functioning of the University.

The Syndicate is the chief executive body of the University, which consists of a maximum of 19 members. It includes six ex-officio and 13 elected members from the Senate. The powers of the Syndicate include affiliation of the institutions, make Ordinance, Statutes, etc.

The leadership involved is to reinforce a culture of excellence through the Academic Council, Faculties, Board of Studies, and Students' Council. the University of Kerala has a long tradition of maintaining excellence in academics and research activities and the internal communication networks ensures that the leadership is aware of facts and actions implemented. The following are the operational mode to facilitate that excellence:

Academic Council (AC) is the academic body of the University. It consists of the VC, PVC, DPI, DTE, DCE, DRS, DPE, Deans of Faculties, General Secretary of the University Union, Heads of Departments other than Deans, Members of Syndicate, Five Principals including one from Government Professional College elected by Principals of Professional Colleges. Seven principals including one government college principal other than oriental languages, two members from junior college and one principal from oriental language colleges elected by principals. An expert member in each subject other than whom the Dean/Head/Principals, are elected by the teachers of that subject. One headmaster and a teacher in the University area as well as five external experts are to be nominated by the Chancellor. Apart from this, one member representing each faculty should be elected by the full time postgraduate students of the faculties. The powers and duties of the AC include:

to advise the Senate and the Syndicate on all academic matters

to prescribe the courses of studies in the institutions that come/or are affiliated under the University and

to prescribe the qualification of teachers, colleges, and admissions of the students .

The Faculties operate under the AC and their brief has to do with the teaching and the courses of study and research in such subjects as may be assigned to such faculty by the Ordinances or Regulations. Each faculty shall consist of a Chairperson who is the chairperson of the Board of Studies in the Faculty, two members elected from each Board of Studies, and between five to ten members nominated by the Syndicate. The Chancellor in consultation with the Vice Chancellor nominates the Deans of Faculties.

The Board of Studies are attached to each department of the University to look after and monitor the academic activities in its specialised sense to cater to excellence.

Students' Council make recommendations to the Syndicate and to the Academic Council on matters affecting the academic work of the students, such as the structure of courses and pattern of instruction, welfare of the students, matters related to sports, working of literary and other societies, management of hostels, student homes and non resident student centres, extension work, social work, students health, National Service Scheme (NSS) and National Cadets Corps (NCC) for the review of the University Administration. The University is positive to the genuine concerns of the Students' Council, which further strengthens the excellence in academic and administrative matters.

The Finance Committee gives advice to the University on any question affecting its finances. It is a seven-member body with the Vice-Chancellor as Chairman and Finance Secretary to Government or his nominee and the Secretary to Government, Higher Education or his nominee as members. The Secretary of Finance Committee is the Finance Officer of the University.

The Vice-Chancellor is the principal academic and executive officer of the University, exercises general supervision and control over the affairs of the University, and gives effect to the decisions of the authorities. The Pro-Vice Chancellor has powers and functions as determined by the Chancellor in consultation with the Vice-Chancellor. The Registrar is in charge of administration of the University Office, subject to the general direction and control of the Vice-Chancellor. The Controller of Examinations is responsible for the University examinations. The Finance Officer is in charge of finance, accounts, audit, and the Joint Registrars, Deputy Registrars and Assistant Registrars perform duties assigned to them by the Vice-Chancellor, the Registrar and the other officers in day-to-day administration.

The University has adopted a decentralised administrative structure, thereby enabling Faculties/Schools/Departments/Centres/Colleges to take decisions in conformity with the rules of the University and within the delegated powers. It enables the University to effectively implement its decisions at the right time in the right spirit.

# 6.2.3 Does the University have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes, the University has a formal policy for ensuring quality system for conscious, consistent and catalytic programmed action to improve the academic and administrative action to improve the academic and administrative performance. The policy contains measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices. It is managed through the IQAC. The mandates of the IQAC are:

To establish internal mechanisms for sustenance, assurance and enhancement of quality

Proactive functioning of IQAC to ensure healthy practice

To ensure quality as collective responsibility

To facilitate and play a strategic role in academic administration

The IQAC chaired by the as a Vice Chancellor has vibrant steering committee with at the University Professor as its Director. There are 12 senior the University teachers in the committee in addition to 5 syndicate members. Three experts from industry/ Local Community and representatives from other stake holders are also there in the steering committee. With the intention of ensuring total quality, the IQAC proposed a Planning Board which was approved by the University. Similarly, to ensure quality research, a Research Council was proposed by the IQAC and the same was approved. The IQAC also resolved to have a vision statement which encompasses the vision of all the teaching departments and research centres in the University. Separate Expert Committees are functioning for each of these bodies; IQAC has suggested a comprehensive Work Study in order to bring in administrative reforms in the University. The Centre for Management Development is entrusted with the Administrative Reform Study.

The bodies other than IQAC which design, drive, deploy and review the quality in teaching and research activities of the University are:

Monitoring Committee under CSS

Research Council and

Department Council

These bodies helptheUniversity help in ensuring quality through the following steps;

Curriculum design

Continuous assessment

Promotion of the University Centres

Arrangement of training programmes etc.

# 6.2.4 Does the University encourage its academic Departments to function independently and autonomously and how does it ensure accountability?

The University introduced the Credit and Semester System (CSS) for all the post graduate programmes (Masters degree) conducted in the University teaching departments from 1995 onwards. The CSS ensures adequate autonomy to the academic departments in the University. Academic Committee constituted by the Vice-Chancellor monitors and coordinates the working of the credit and semester system. The term of office of the committee shall be two years. The committee consists of the following members; The Vice-Chancellor (Chairman of the committee), The Pro-Vice-Chancellor, Member of the Syndicate representing the University teachers, three deans of the University, two HoDs of the University departments other than Deans, Three the University teachers other than Deans and HoDs. A senior professor nominated by the Vice-Chancellor from among the members of the committee shall be the vice-chairman of the committee. Every P G Programme conducted in the University shall be monitored by the Department Council. The Department Council shall be the authority to design courses, prescribe the mode of conducting the course and evaluate the students and teachers. Department Council shall meet at least thrice every semester- at the beginning, in the middle and at the end of the semester. In the last meeting of the semester, the Council shall finalize the results of the students for the semester.

# 6.2.5. During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

The Legal Wing of the University of Kerala is functioning under the administrative control of the Registrar, the University of Kerala. The legal wing deals with cases in various courts ranging from First Class Magistrate Courts, Munsiff Courts to Hon'ble Supreme Court of India. This wing also deals with some cases with Kerala LokAyukta, Consumer Protection forum, Human Rights Commission, Kerala LokAdalath etc. The legal wing of the University of Kerala has been taking efforts to dispose matters in various courts in a time bound manner with the help of timely instructions from the

Counsels appearing for the University of Kerala. The legal issues involved in each matter have been promptly addressed by the Standing Counsel before the Hon'ble High Court of Kerala and by the Legal Advisor before the Court of law other than the Hon'ble High Court. The matter before the Hon'ble Supreme court of India is usually entrusted to counsels having good standing in consultation with the Standing counsel.

The Writ Petitions and complaints filed before various courts of law has been processed by the Legal wing on the basis of specific instructions made by the counsels of the University. The counter affidavits and statement of facts along with the supporting exhibits are filed within the time frame granted by the Courts of Law. The arguments and statements placed in favour of the University by the Counsels are duly endorsed and approved by the Vice Chancellor and the Registrar. The directions/orders if any made by the legal forums are complied without delay unless there is scope of canvassing the correctness of such directions/orders. While dealing or defending any action or decision of the University before the court of law, the emphasis has been given to the provisions of the University Act, Statutes and Ordinance enacted by the Legislature and the Academic and Examination regulations framed by the Academic bodies of the University. The Legal Wing in the University has been functioning in tandem with all other wings in its efforts to protect the interest of the University without delay or denial of justice to those who approach this esteemed institution for their various educational purposes.

The functions of the Legal wing have been continuously monitored by an in house mechanism in the form of Legal Monitoring Committee (LMC), which is one of the sub-committees of the Syndicate of the University. The Legal Monitoring Committee is usually chaired by the Pro-Vice Chancellor of the University, which discusses and makes recommendations on key issues relating to various matters before the Courts of Law. The Legal Monitoring Committee recommendations are usually placed before the very next meeting of the Syndicate of the University for approval and final decision.

The details of various petitions and complaints dealt by the Legal wing of the University of Kerala in the last four years have been summarized in table 6. 3.

**Table 6.3:** Number of cases filed against and by the University

	Cases filed aga	inst the University	Cases filed by University		
Year	Number of cases	Index of increase or Decrease	Number of cases	Index of increase or Decrease	
2010	300	100	11	100	
2011	309	103	12	109.09	
2012	247	82.33	52	472.72	
2013	217	72.33	25	227.27	

Source: Legal Section, the University of Kerala

During the last four years, 1073 cases were filed against the University while the University filed100 cases. In case of teaching and non-teaching staff, the critical issues were related to promotion and service matters. Some of the cases were related to disciplinary issues also. In case of court cases filed by students, they were mostly related to admission and examinations.

# 6.2.6 How does the University ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

At the Department level, the Department Council chaired by the HOD takes care of the issues of the students.

At the University level, there is a Standing Committee on Student Discipline of the Syndicate to look after the grievances and complaints of students. A student representative in the Syndicate is also there in the Standing Council. Above all, there is a Student Council headed by the Vice Chancellor to look into the exceptional issues that sometimes still remain unsolved. Some specific committees such as Students Grievance Cell, SC/ST Cell, Equal Opportunity Cell, Anti Ragging Council, Cell to Combat Sexual Harassment and Women Empowerment Cell also function at the University level to solve issues of specific nature. Above all, to solve the issues of teachers, there is at the University Appellate Tribunal.

# 6.2.7 Does the University have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes. The IQAC team visits every department and administered questionnaires to students. The questionnaires are collected and the response tabulated and each teacher given a report with their score. This is to help the teachers improve and fine tune their teaching methods keeping in mind the needs of the students. The Department Council chaired by the HOD also looks into the matter if any serious issues are raised by students.

# 6.2.8 Does the University conduct performance audit of the various Departments?

Yes, Once in every year. The IQAC, the internal mechanism for sustenance, assurance and enhancement of quality is entrusted with the task of performance audit of its Departments. Towards this, a team lead by the PVC visited every department and urges the faculty to update the Activities Register. All Departments are asked to explore the possibility of bringing out a brochure highlighting the activities of the Department and their future plans. Departments are encouraged to use the University website to project the healthy practices in the teaching-learning process. The IQAC team has made an on the spot assessment of the needs of the teaching departments, prepared a statement and initiated steps to address the needs. The team also interacts with the students of the Department.

# 6.2.9 What mechanisms have been evolved by the University to identify the developmental needs of its affiliated institutions?

- 1.Representation of members of teaching/Non-teaching staff, Principals, Students are ensured in the various academic/executive bodies of the University like Senate, Academic Council and Syndicate. Members bring among other matters, the developmental needs of the affiliated colleges to the attention of the University.
- 2. It is the Director of the CDC of the University who brings the various Programmers/Schemes of the UGC for the intellectual and infrastructure development to the notice of colleges and exhorts them to apply for the same. Since the applications are processed by the CDC before forwarding the same to the UGC, the University gets an opportunity to assess the developmental needs of its affiliated colleges under 2(f) and 12 B of the UGC Act.
- 3. The Research portal set up the University supports the research guides and scholars of affiliated colleges in research administration
- 4.The Research Council of the University assists colleges to establish linkages with research institutions.
- 5.The finishing school of the University supports the colleges with soft skill training programmes.
- 6. The Academic Staff College of the University provides continuous training programmes to the teachers of Affiliated colleges and the University Departments and Principals of Affiliated Colleges.
- 7. The admissions to the UG and PG programmes of affiliated colleges have been centralized and done through the on-line mode by the University; it reduces the administrative procedure in the affiliated colleges.

Above all, periodical meetings are held by Vice-Chancellor, Pro-Vice Chancellor, Registrar, Director of College Development Council with the Principals of the affiliated institutions so as to understand the developmental needs and other issues of the affiliated institutions and directions are accordingly given to colleges. The affiliation committees' visits to these institutions in connection with the sanction of new courses or additional batches also give an opportunity to the University authorities to understand the developmental needs of the institutions.

# 6.2.10 Does the University have a vibrant College Development Council (CDC)/Board of College and the University Development (BCUD)? If yes, detail its structure, functions and achievements.

**Yes**, the University has a vibrant College Development Council (CDC)which looks after the developmental needs of its affiliated colleges and the Planning Department of the University looks after the development needs of its Teaching Departments.

The College Development Council of the University was constituted in the year 1978 with the primary objective of facilitating the intellectual and infrastructure development of affiliated colleges with the assistance of funding agencies especially the University Grants Commission. The Council is headed by a full time Director.

Dissemination of timely information regarding the various programmes/schemes to colleges and exhorting them to avail of the maximum assistance from UGC is an important task undertaken by the CDC. The selection process of the teachers to be recommended for the award of teacher fellowship under the Faculty Development Programme of the UGC is organized by the CDC wing. The processed applications are forwarded to the UGC with due attestation and recommendations of the University.

The works relating to autonomous status for Colleges and such institutions with Potential for Excellence have been carried out by the wing. Steps have also been taken to bring more affiliated colleges of the University under the umbrella of 2(f) and 12(B) status of the UGC. The CDC wing has conducted a workshop on XII Plan UGC Schemes and Programmes for the benefit of the Principals and Teachers in-charge of UGC affairs in affiliated colleges under 2(f) & 12 B of UGC Act 1956 on 15.03.2014. Dr.N.Gopukumar, deputy secretary, UGC Bangalore was the subject expert in the workshop.

Collection of data relating to student strength, composition of the social categories among students and staff of affiliated Colleges and Departments of the University on an annual basis is another task entrusted with the CDC. The processed data is then forwarded to institutions like UGC and MHRD. Recently, the section was engaged in assisting the programmeof All India Survey on Higher Education conducted by Ministry of Human Resources to prepare sound data base on Higher Education System in the country through the online mode. The comprehensive data base developed through the survey will be used for planning and policy making and also for determining the criteria for funding the institutions. The survey for the academic year 2010-2011,2011-12 and 2012-13has been completed and the process of uploading data for the year 2013-14 is in progress. As part of the exercise, two workshops have been conducted for the Nodal Officers in affiliated colleges for providing technical support in this regard. At the University level Cell with the Registrar as chairman has been constituted to monitor the survey.

The College Development Council is entrusted with the work relating to the monitoring of two academic programmes, i.e. P.G. and M.Phil. conducted by the affiliated Colleges.PG Monitoring Committee and M.Phil. Monitoring Committees are convened by the CDC periodically to deliberate on academic and examination issues with respect to the conduct of PG and M.Phil. programmes of affiliated colleges.

Programmes/Schemes concerned with SC/ST are also dealt by the CDC wing. Special Financial Assistance provided to SC/ST Research Scholars in affiliated colleges and Departments of theUniversity requires special mention. The UGC programme of Post-Doctoral Fellowship for SC/ST candidates is also being implemented. All funding of Seminars and

Workshops of affiliated Colleges are routed through CDC, the details of which are given in table 6.4.

Table 6.4: No. of Proposals forwarded by CDC and Amount Sanctioned

Year	No.of Seminars	No. of Workshops	No. of Conference	Total No. of Programmes	Amount Released(Rs.)
2009	45	11	6	62	11,26,350
2010	115	5	3	123	23,36,485
2011	51	9	2	62	18,67,500
2012	72	15	11	98	22,84,000
2013	108	28	11	147	33,71,250
Total	391	68	33	492	99,85,585

Source: Records of CDC

A look at table 6.3.shows the details of Seminars, Workshops and Conferences' proposals forwarded to the UGC and the amount released for the purpose. Over a period of 5 year period it could forward 492 proposals and released about Rs.1 core for various academic programmes of affiliated colleges. The University certainly has a vibrant CDC.

#### **6.3** Faculty Empowerment Strategies

# 6.3.1. What efforts have been made to enhance the professional development of teaching and non-teaching staff?

The University has been taking every effort to enhance the professional development of teaching and non-teaching staff. It has established an HRD Cell for the purpose. Right from the selection process the University ensures that highly qualified people are recruited. The aim of the University is to make the faculty internationally competent. Newly recruited members of faculty are urged to undergo mandatory Orientation and Refresher courses through the Academic Staff College of the University. The newly recruited faculties were encouraged to avail "Research Starter Grants" from UGC. The University provides special casual leave to faculty who are invited to present their project proposal by central funding agencies while Assistant Professors are provided with study leave to pursue their Post Doctoral Research. Assistant Professors and Associate Professors can avail leave to undertake postdoctoral research. During the last four year period faculty members from various departments have availed Commonwealth fellowship (1 faculty member) and UGC post doctoral fellowship (2 faculty members). Travel support and on duty, leave and special casual leaves are provided to facilitate participation of Faculty members in International and National Conferences, Symposia, etc. Faculty members are encouraged to undergo summer training and attend specialized workshops for capacity building in their respective areas. The faculty members are encouraged to have research collaborations and sign MoUs with international and national universities/ other academic / research institutions which facilitate faculty exchanges and enable them to get advanced training in their research area. Orientation programmesare also

offered to new recruitees. Most of the teaching Departments and Centres offer training programmes to affiliated College Teachers. The University Department teachers are actively engaged in designing new courses and curriculum development.

Similarly, the non-teaching staff are trained in their respective fields through in-house programmes or from other organizations. In addition to Academic Staff College, the Management Department, IMK offers short-term training programme to non-teaching staff of the University. The Computer Centre, the University of Kerala also give necessary IT training to non-teaching staff. So also, the CMD and IMG, two external agencies provide training to our non-teaching staff. The non —teaching staff are also encouraged to have personal growth as they can pursue their higher education in the University as private candidates. They are supported to fully grow within their profession and they eventually achieve some of the top administrative and academic positions in the University. The necessary administrative training is also made available to higher officers like Finance Office, Joint Registrars, Deputy Registrars etc.

# 6.3.2. What is the outcome of the review of various appraisal methods used by the University? List the important decisions.

Faculty members are subjected to an appraisal of teaching abilities based on student feedback administered by the Internal Quality Assurance Cell (IQAC). The all round performance of the Faculty is periodically evaluated by external experts in connection with their Career Advancement Scheme (CAS). It is based on the recommendations of experts on published works of the teachers and their performance in the interview, promotions under the Career Advancement Scheme are either granted or denied. PBAS based API scores are considered in the process of recruitment and promotions of the Faculty members. The important decisions regarding appraisal methods used by the University are:

- 1. Curriculum is evaluated by Department Council
- 2. Research is monitored by Research Director
- 3. Consultancy is evaluated by Consultancy Cell
- 4. Utilisation of funds by Planning Department and CDC

# 6.3.3. What are the Welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefited from these schemes in the last four years? Give details.

The University provides various welfare schemes to both the teaching and non-teaching staff. These include house building and vehicle loan facilities. During the review period a good number of teaching and non teaching staffs had availed this facility (Table 6.3). The University provides Pension, Group Insurance, Family Benefit schemes, Family Welfare Schemes and all the teaching and non-teaching staff are covered under these schemes. Lump sum medical grants and soft loans are provided on a case to case basis to meet major surgery and hospitalization expenses of the teaching and non-teaching staff. The opportunities for professional development and welfare

measures for teachers have resulted worked favourably as teachers do not resign from the University prior to superannuation.

To ensure sound health condition for its staff, the University has established a Health Centre. The health facility is opened to all staff and its family members. A resident doctor is appointed in the health centre along with paramedical support and nursing assistance. Essential medicines have made available in the health centre. The staff members primarily use this facilities and the health centre provide suitable directions of availing advanced treatment if any required.

**Table 6.5:** No. of Beneficiaries and Amount paid under Medical Reimbursement Facility

Sl. No.	Item	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014	Average Per year
1	No. of Staff availed medical reimbursement	295	272	294	201	181	248.6 Staff
2	Amount sanctioned (Rs)	2181168	2281866	2650708	1034222	2060856	20,41,764

Source: Records of Ad.B III/2014,theUniversity of Kerala

**Table 6.6:** Various Staff Welfare Measures of the University

Sl. No.	Item	2010- 2011	2011- 2012	2012- 2013	2013- 2014	2013- 2014
1	No. of Staff availed house building loan	192	156	135	115	68
2	No. of Staff availed computer loan	10	5	4	3	1
3	No. of staff availed vehicle loan	83	34	18	12	7
4	No. of staff availed soft loans to meet surgery and hospitalization expenses	2	2	1	0	0

Source: Records of Ad.G./2014,the University of Kerala

The University employees have medical reimbursement facility and a good number of its staff members use this facility for diverse health care needs (Table 6. 5). During the period under review University has sanctioned on an average Rs. 20,41,764 to 248.6 staff members in a year. Percentage of staff availed this facility is around 21 (249 out of 1192)

In addition to this, the University supports services to its employees in various ways. There is adequate arrangement for local conveyance for its staffs and students. For the benefit of students and staff, the University provides canteen, cafeteria services in both the campuses. In the canteen and cafeteria, breakfast, lunch, snacks, tea, coffee are served at a subsidized rate. To take care for infants of staff members, Kerala the University Campus Association (KUCA) with the support of the University runs a crèche and babysitting facilities. For this purpose regular grant is allocated I n the budget

to Campus Association. A good number of staff members make use of this facility. Campus Association also run a nursery school (LKG & UKG) and the facility is open to the public also. Co-operative Credit Society, Cooperative Housing Society, Cooperative Store, Banking facility with ATM services in both the campuses etc. are the other initiatives of the University as welfare facilities to its staff members. In addition, Onam advance and Christmas advance are also given to its staff members by the University.

Welfare facilities are also extended to the family members of the staff in the form of subsidised transport, medical reimbursement and awards for talented children. In addition, the University's support is also given to Campus association, Cooperative Societies, Recreation Clubs, Employees Organisation, Arts and Sports Clubs and Film Society. More than 70 per cent of the employees avail most of the welfare facilities of the University.

# 6.3.4. What are the measures taken by the University for attracting and retaining the Eminent faculty?

The University widely perceived as a model employer, in the field of higher education, draws manifold applications for notified teaching positions. Notifications are given in almost all national dailies and websites of the University and in the University News issued by UGC so as to attract eminent faculty. Eminent faculty are retained in the University by offering Adjunct Professorship or Visiting Professorship or as Project coordinator or as SAP Coordinator. Conducive academic atmosphere including spacious accommodation is provided to retain faculty members which is testified by the fact that resignation rate is negligible.

# 6.3.5. Has University conducted a gender audit during the last four years? If yes, mention a few salient findings.

Yes, the Demography Department of theUniversity of Kerala continuously collects detain this regard. The gender composition in the University indicates women representation in all levels is about 50 per cent. (Table6.7). It is interesting to note that 65% of research scholars in the University Departments are women and is much higher than Scandinavian Universities. The girl students in P.G programmes were also very high (74%) (Table 6.8). In the 118 member Academic Council, women representation is 30 (25%), whereas among the 42 heads of the Departments in the University, 12 are women. Out of eleven School directors, four are women. The University with its age-old values of respect and due consideration for women did not have any serious women harassment complaints in the last four years. Nevertheless, the University has constituted a Redressal Cell to oversee complaints regarding any kind of harassment of women.

**Table 6.7:** Staff Gender Pattern in the University (%)

Gender	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014
Male staff	825	753	737	671	610
Wale staff	(51.40)	(51.22)	(51.18)	(51.27)	(51.17)
Female Staff	780	717	4703	4638	582
Temale Staff	(48.60)	(48.78)	(48.82)	(48.73)	(48.83)
Total	1605	1470	1440	1309	1192
Total	(100)	(100)	(100)	(100)	(100)

Source: Finance Section, University of Kerala

**Table 6.8:** Students Gender patternintheUniversity during 2014 (%)

Category	Male	Female	Total
Research Scholars (%)	35	65	100
PG Students(%)	26	74	100
Total	100	100	

Source: Gender audit report, Dept. of Demography, the University of Kerala

# **6.3.6.** Does the University conduct any gender sensitization programmes for its faculty?

The University's Centre for Women Studies and Cell to combat Sexual Harassment Cell conduct various programmes throughout the year in the form of seminars, symposia, workshops, lectures of eminent scholars and activities or a combination of these in the field of gender issues. Faculty is the main target group of these sensitization programmes. Other than the faculty, students and local participants also participate in these programmes.

In addition to this, the Department of Commerce organised two fiveday residential workshop on Sensitization programme for women teachers of Kerala and Karnataka, one in 2010 and the other in 2011 with financial support of UGC. Another six-day residential workshop on Training of Trainers was also conducted for women the University and college teachers of Kerala and Karnataka. On an average 32 women teachers participated in all these programmes the details of which are depicted in table 6.9.

**Table 6.9:** Sensitivity Awareness & Motivation Programme

Sl.No.	Period	No. of Participants	Amounts spent (Rs.)	Average Amount spent per participant(Rs)
1	3/8/2010to 7/8/2010	33	3,99,999	12,121
12	10/10/2010 to 14/11/2011	32	4,90,500	15,328
3	10/9/2012 to 15/9/2012	32	7,49,529	23,423

Source: Department of Commerce

# 6.3.7. What is the impact of the University's Academic Staff College programmes in enhancing the competencies of the University faculty?

A backbone of the University's efforts towards faculty empowerment is the Academic Staff College. The Academic Staff College in the University of Kerala was started in 1987. The key concept underlined was to strengthen the crucial link between teacher motivation and quality of education, and had the broad objective to improve quality of teaching by providing ample opportunities for professional and career oriented development to teachers. UGC-Consortium for Educational Communication has provided Edusat facility to Academic Staff College. Many teachers from different Departments and the participants of Refresher Courses/Orientation Programmes use this facility (Table 6.10). Courses under the STAT (Stimulating Teachers through Advanced Training Programme) of the Govt. of Kerala are undertaken and a number of programmes have already been conducted in some renowned institutions like IIT, IISC, etc. The UGC- Academic Staff College has a vibrant exchange of resources with prestigious Institutions such as Institute of Management in Government, Centre for Development Studies, Rajeev Gandhi Centre for Bio-technology, Tropical Botanical Garden, VSSC, Indian Institute of Management, Indian Institute of Technology, Indian Institute of Science and other institutions in the field of Medicine, Information Technology, Science and Technology, Agriculture, Social Science, and Universities functioning at Central and State level. The UGC-ASC, the University of Kerala has recorded maximum 33 programmes including orientation refresher and short term training courses per year(Table 6.11.; Figure 6.4). The ASC conducts refresher programmes in diverse discipline incliningChemistry, Commerce & Management, Education, English Language and Modern Literature, Environmental Science, Hindi Language and Modern Literature, History, Human Rights, Library Science, Life Sciences, Malayalam Language and Modern Literature, Mathematics, Nano-Sciences, Women's Studies. Orientation programmes mainly focuses on IT and enable the newly recruited teachers to undertake teaching with modern tools. In addition to these ASC also conducts short-Term Course for Research guides in various disciplines, Disaster Management, Short-Term Course for Academic Administrators, Workshop for Principals of Colleges in Kerala, Short-Term Course in Soft Skill Development. Many teachers of Department are the coordinators of these programmes.

**Table 6. 10**. Enrolment details of Academic Staff College during 2009-2014

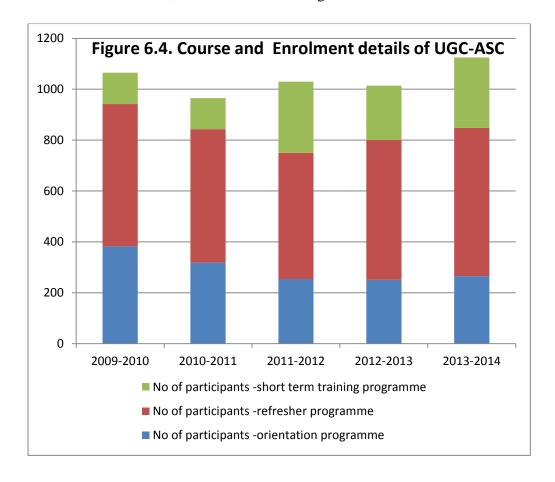
Sl. No.	Academic Year	No. of participants
1	2009 – 2010	1065
2	2010 – 2011	965
3	2011 – 2012	1030
3	2012 – 2013	1014
4	2013 – 2014	1125

Source: office records of Academic Staff College

Table 6.11: Details of Courses Conducted and Number of Participants

Course - Type	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014
No. of programmes conducted	33	31	29	27	34
No of participants -orientation programme	382	318	254	251	265
No of participants -refresher program	560	525	496	549	583
No of participants -short term training program	123	122	280	214	277

Source: Office records, Academic Staff College



In addition to these, the competency enhancement of the staff and students of the University is made through various other programmes. All departments have adequate number of computers and internet facilities. They are encouraged to get exposure to modern tools and software. The Computer Cell of the University is efficiently serving the faculty and students by inducting various online teaching programmes like Moodle. The non-teaching staff too frequently undergo computer training especially induction programme for automation of administration, finance and accounting.

#### **6.4** Financial Management and Resource Mobilization

### 6.4.1. What is the institutional mechanism available to monitor the effective and efficient use of financial resources?

The University has an efficient mechanism to monitor the effective and efficient use of financial resources. Resources at the disposal of the University are cautiously budgeted based on the needs and requirements of the academic departments and the administration. The budget formulation of the University includes the following steps:

- 1. Compiling the requirements of the academic and administrative units,
- 2. Develop a draft budget through the Planning and Development wing,
- 3. Seek the recommendation of the Finance Committee of the University,
- 4. Placing the draft budget before the Syndicate for approval and
- 5. Finally getting it adopted by the Senate of the University.

The approved budget is taken care of by the Vice Chancellor and Registrar sees to its implementation. Every payment is subjected to a preaudit by audit section within the University. The Finance Department takes care of the utilisation at different stages and work reports are also asked at different levels.

## **6.4.2.** Does the University have a mechanism for internal and external audit? Give details

Yes, the University has a mechanism of both internal and external audit for the effective and efficient use of available financial resources of the University. The financial management of the University is controlled by the Finance Officer. The Finance Officer has full financial delegation to release funds to ensure smooth functioning of administrative, examination, academic wings and teaching department of the University. To ensure accountability of financial transactions, the University's budget is submitted to scrutiny by internal audit and external audit. Internal audit is being conducted by a team of the University officials. This Team is known as Out Audit Party (OAP).

The external audit is being conducted by;

Local Fund Audit Team of the Kerala State Government. A team comprises of approximately 18 officials permanently posted to conducts audit of transactions on a concurrent basis.

Supplementary audit is done by Accountant General on an annual basis. A team of 6 to 8 officials for a period of 45 days in a year is engaged in supplementary audit.

The audit of the accounts carried out by the Local Fund Audit department of the Government of Kerala as an External Agency independent

of the University administration to take a fair view and give independent opinion on the performance as well as financial transactions of the University in the form of Audit Report along with the Audited Annual Accounts for each financial year. The comments, views, deficiencies pointed out in the paras of Audit Report are deliberated elaborately in Accounts and Audit Committee meeting and suitable responses are drafted and placed before the Syndicate and Senate for their approval. The Audit Report after the approval of the Senate, is forwarded to Audit Department for consideration and acceptance. The Audit Reports contain paragraphs involving certain defects/deficiencies which call for immediate attention are given reply along with connected records to audit during Joint Sitting Conducted with Officials of the Audit Department periodically. Besides, the External Audit Agency conducts the Audit on the transactions of the University on post execution basis. The University itself has established an Internal Audit Section as part of the administration wing to conduct pre-audit, so as to improve better performance and safeguarding the overall interest in all the financial activities of the University. The major objective of the internal audit is to point out and amend the defects in the earlier stage of expenditure itself to avoid further recurrence.

# 6.4.3. Are the Institution's accounts audited regularly? Have there been any major audit objections, If so, how were they addressed?

Yes, the University's accounts are audited on a regular basis. The Local Fund audit and audit by Account General (AG, Kerala) have already been completed up to the F.Y.2012-13. There were no major irregularities reported. Other minor irregularities reported are being addressed for disposal /corrective actions. On the basis of proper reply, most of the objections were dropped by the office of the Accounts General (AG), Kerala and final audited accounts get approved. the University also adheres to guidelines or suggestions received from AG, Kerala.

# 6.4.4. Provide the audited Income and Expenditure statement of academic and administrative activities of the last four years.

As the University's accounts are on Cash basis only, Receipts and Payments account is prepared and hence the audited Receipts and Payments accounts during the last 5 years (2008-09 to 2012-13) are shown in appendices 6.4to 6.8). The amounts in the Receipts and Payments Account are categorised into four major categories such as Non-Plan Receipts and Expenditures, Plan Receipts and Expenditures, Special Plan Receipts and Expenditure and Debts and Deposits Received and Paid. The total receipts and payments from all these four heads are summarised and are shown in table 6.12 and fig. 6.5.

**Table.6.12:** Total Receipt and Total Payments (in crore)

Item	2008-09	2009-10	2010-11	2011-12	2012-13
Receipts	160.77	192.78	224.07	302.16	301.70
Payments	161.73	186.10	224.94	303.31	298.71

Source: Annual Accounts

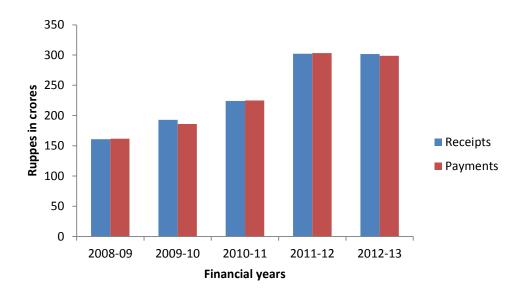


Fig.6.5: Total Receipts and Total Payments

Over the last five years the receipts of the University has almost doubled as the payments, but from the table 6.12 and fig. 6.5 it is clear that the University is not running deficit. The Non-Plan and Plan disaggregate are given in the table number 6.13 and 6.14.

Table 6.13: Non Plan Receipts and Expenditures (in crores)\*

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	102.62	129.71	136.47	172.11	193.90
Expenditures	102.97	114.46	127.56	176.19	191.47

<sup>\*</sup>Source: Annual Accounts

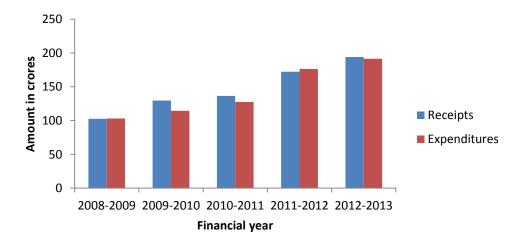


Fig. 6.6: Non-Plan Receipts and Non-Plan Expenditures

As illustrated in table 6.13 and fig.6.6, the receipts and expenditures under non plan head during the last five years showed a steady growth. Rs. 102.68 crore in 2008-09 increased to Rs. 193.90 crore in 2012-13, i.e. about 89 Per cent increase over a period of 5 years. Expenditure also showed a corresponding increase during the period, i.e. about 86 per cent increase.

The Plan Receipts and Expenditure of the University during the same period is depicted in table 6.14 and fig.6.7.

**Table6.14**: Plan Receipts and Expenditures (in crores)

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	9.70	10.53	25.17	13.60	28.34
Expenditures	7.52	8.58	6.27	4.72	12.26

\*Source: Annual Accounts

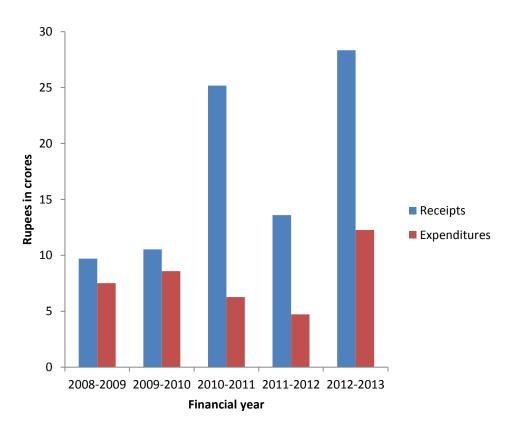


Fig.6.7: Plan Receipts and Plan Expenditures

During the review period, i.e. over a period of 5 years, the plan fund received noticed a 3 fold increase. The expenditure also increased from Rs.7.52 crore in 2008-09 to Rs.12.26 in 2012-13, an increase of about 63 percent. This reduced expenditure rate as compared to receipts is due to the procedural delay associated with the audit of long term projects of more than one year. The increased rate of receipt and expenditures of plan amount illustrated in table 6.14 and fig.6.7 indicates the capacity of the University to

mobilize funds from the government and to implement various developmental activities.

The Special Funds receipts and expenditure during the last 5 year period is shown in table 6.15 and fig.6.8.

**Table 6.15:** Special Funds Receipts and Expenditures (in crores)

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	11.19	14.33	11.99	13.85	17.41
Expenditures	10.10	14.45	9.94	14.50	16.42

Source: Annual Accounts

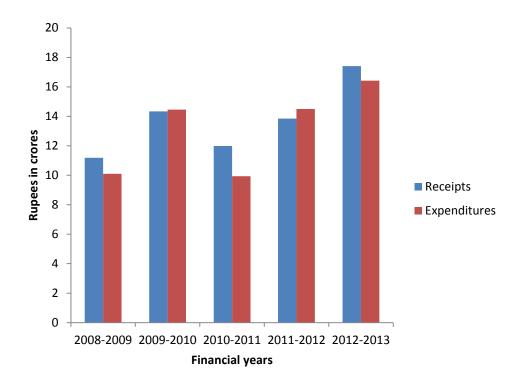


Fig. 6.8: Special Funds Receipts and Expenditures

During the period, various departments such as the planning and development wing, financial wing, administrative wing etc. functioned in coordination which resulted in the mobilization of special funds for specific developmental programmes. Growth of this fund during the five year period is nearly 150%. A high utilisation rate was also noticed, i.e. about 90% in almost all years. In 2008-09 the expenditure exceeded the receipts during the year. All these indicate that the University is more particular not only in mobilising the funds but also its utilisation which is shown in table 6.15 and fig.6.8.

The details of receipts and expenditure on account of Debts, Deposits etc. are shown in table 6.16 and fig. 6.7.

**Table 6.16**: Debts and Deposits Received and Paid (in crore)

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	37.25	38.21	50.43	102.61	62.05
Payments	161.73	48.62	79.17	107.89	78.56

Source: Annual Accounts

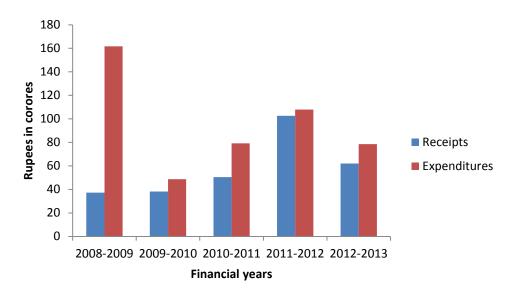


Figure 6.7. Debts and Deposits Received and Paid (in crore)

The debt repayments are higher than the receipts in all years under review. This is a clear indication of the financial strength of the University as it could discharge its obligations without depending further debts. The details are depicted in table 6.16.and fig.6.7.

To have a better understanding about the financial strength of the University the major items of receipts and expenditure during the period under review are shown in table 6.17 and 6.18.

The University's receipts from govt. in the form of grants has doubled. The general receipts head has shot up to 188 percent, which is in tandem to the receipt from examination fees. Whereas the fees from certificate and evaluation increased to 148 percent other receipts from the departments as fees and other receipt remain constant. School of Distance Education has shown a 229 percent increase in its receipt over the last five years. The hostel fee remains almost the same throughout the years. This shows that the University makes the accommodation cheaper to any student who seeks education. This is almost same with the library fee increase. Publication receipt nearly doubled but the fee from self-financing courses increased marginally. In a nutshell, the overall receipt of the University increased to 178 percent over the last five years. The details of Expenditure are shown in table 6.18.

**Table 6.17:** Major items of Receipts

Receipts	2008-09	2009-10	2010-11	2011-12	2012-13
Grants from Govt. of Kerala	5885.00	7291.31	7445.00	8934.00	11099.00
General Receipts	819.40	976.68	953.43	986.36	1542.08
Fee for certificate revaluation	409.25	493.86	705.84	1412.12	604.83
Examination fees	960.77	1473.22	1891.23	2024.96	1801.73
Departments- fees & other receipts	202.20	398.71	503.85	494.13	210.82
Receipts from IDE	363.32	438.47	450.65	514.04	832.25
Publications fees	16.34	23.43	44.94	35.48	30.52
Hostel fees	15.04	16.20	16.87	15.30	15.59
Self-Financing courses fee	1004.65	1008.11	583.01	793.77	1122.73
Library	9.06	9.20	11.94	12.85	11.89
Miscellaneous	225.91	181.34	168.04	201.54	348.39
TOTAL	9910.94	12310.54	12774.80	15379.55	17619.83

Source: Annual Accounts

As shown in table 6.15, the salary of Teaching and Non-Teaching staff remains the largest portion of the University expenditure. Pension constitutes the second largest. However, in the last five year the salary increased only 37 percent from what the University was paying in 2008-09, whereas the pension has doubled over these five years. The library expenditure showed an increase by 85%, Student facilities expenditure increased to 217 per cent and Fellowships to 143 per cent. All these are positive signals of academic commitment and growth of the University. The expenditure related to works increased to 264 per cent which further shows the increased investment for infrastructural development of the University. All these increased the total expenditure of the University but are positive signals in the growth and development of the University.

Table 6.18: Major items of Payments

Payments	2008-09	2009-10	2010-11	2011-12	2012-13
Salary–Teaching & Non-Teaching	5107.16	5080.01	5862.63	7399.77	6983.41
Examination Charges	694.48	828.51	940.74	1139.54	1311.82
Library	43.87	52.66	53.14	67.40	81.24
Publications	8.41	27.66	16.74	2.98	4.27
Student facilities	72.53	80.35	94.10	114.80	157.45
Fellowships	216.32	226.38	214.35	288.80	309.61
Works	84.90	187.45	90.07	157.59	223.85
Pension	3012.85	3302.80	3196.84	6346.70	6080.01
Pay of Guest/Contract Employees	335.12	409.92	532.11	771.08	1531.40
Electricity Charges	118.26	106.66	126.54	128.23	160.63
Water Charges	2.19	4.10	224.36	220.45	111.69
Other contingent charges	424.41	532.46	546.18	981.96	739.99
TOTAL	10120.48	10838.96	11897.81	17619.29	17695.36

Source: Annual Accounts

## 6.4.5. Narrate the efforts taken by the University for Resource Mobilisation

The University of Kerala is a State University predominantly funded by Government of Kerala. Still, the University of Kerala is very much aware of its increasing financial needs as also limitation of supports from the State government. Keeping this in mind, the University takes every effort to generate funds through various schemes or programmes. Apart from grants from the state government and Plan funds from the UGC, the University during the last five years, has significantly intensified its efforts to mobilize resources from faculty consultancies, endowments, and research grants of the faculty for their projects from different funding agencies. Being a public funded institution, the higher education programmes offered by the University are significantly subsidized to cater to students of all strata of the society, especially the socio-economically backward students and SC/ST students. Yet, the University is taking efforts to revise fees structure on a periodical basis.

As a reward to the University's commendable efforts in resource mobilization, a grant of Rs. 7.76 crore and 6.304 crore (Total1.4.1 crore)from UGC under general development assistance scheme under XI and XII plan respectively was obtained by the University the details of which are illustrated in Table 6.19. A perspective analysis of the University's budget for the last five years illustrates how the University has moved ahead with regard to resource mobilization and judicious use of the same to maximize the benefits to the University.

The resources for the University come through non-plan receipts by students fees and support from the State government towards the salary component of its employees of all categories, planned grants from national and international funding agencies, research project grants generated by the faculty from funding agencies, resources mobilized through industry collaborations and consultancies, interest from endowments, and income from the Institute of Distance Education especially through its Learners Support Centres, Income from Self Financing Colleges, Extension Centres for B.Ed., UITs, Centralised Allotment Fee for UG and PG admission etc.

**Table 6.19:** Grant-in-Aid under General Development Assistance Scheme of UGC

Plan Period	Year	Amount Rs. In lakh
11	2007	80.06
11	2008	240.22
11	2009	180.16
11	2010	Nil
11	2011	Nil
11	2012	276.24
11 <sup>th</sup> Total	2007-2012	776.68
12	2013	250.22
12	2014	380.18
12 <sup>th</sup> Plan Total	2013-2014	630.40
11 <sup>th</sup> and 12 <sup>th</sup> Plan Total	2007-2014	1407.08

Source: DPD, the University of Kerala

# 6.4.6. Is there any provision for the University to create a corpus fund? If yes, give details.

As a State University funded by the Non-Plan Grants of Government of Kerala for its salary and Pension expenses, creation of a corpus fund is not feasible for the time being. However, Department Development Fund (DDF) is available to meet expenses for the development of basic infrastructures and support academic activities of the Department.

#### 6.5. Internal Quality Assurance System (IQAC)

The IQAC chaired by the Vice Chancellor has a steering committee consisting of the Director, Registrar, Director of the College Development Council, members of syndicate, eight senior teachers and three experts from the industry/ Local community, representatives from stakeholders, and about

eleven other members to control the proceedings related to the teaching and research activities of the University so as to improve its quality.

It implements internal quality checks by introducing the Academic Audit system for the University departments, affiliated colleges and approved research institutes and R & D institutions. The academic audit is conceived of as an educational exercise of accountability aimed to improve the performance of teachers, students, administrative staff and the whole institution in a holistic manner. It supports the present academic standards of the University. The internal quality checks include stratified proforma based information on students feedback of teaching – learning process, self-appraisal by teachers, grievance redressal for all stakeholders of the University system, strict adherence to UGC norms in all academic functions of the University, administrative transparency by providing information to the needy as per Right to Information Act.

**6.5.1.** Does the University conduct an academic audit of its Departments? Give details

Yes, the University has opened a separate cell known as the IQAC with the intention of ensuring quality in the University Departments. Accordingly, under the leadership of the Pro Vice Chancellor, the steering committee members visit all the Teaching Departments andthe University centres once in a year and collect details from HODs, teachers and students as part of its academic audit. Further it issues detailed guidelines for identifying the best Teaching Department in the University (Guidelines – appendix-6.9).

**6.5.2.** Based on the recommendations the Academic audit, what specific measures have been taken by the University to improve teaching, learning and evaluation?

The University has decided to recognise the services of the performing Departments in the University and for that purpose applications are received for assessment of the Department seeks inputs on the above criteria as per the format attached. The University constitutes an external expert team consisting of three Senior Professors for Evaluation of scoring scheme of the guidelines for award of the Best Department of the University. The members nominated are:

- 1. Dr.Jancy James, Former Vice-Chancellor, Central University of Kerala, Kasargod, Kerala.
- 2. Dr.ChengduVenugopal, Professor, M.G.University, Kottayam
- 3. Dr.K.K.Aravindakshan, Professor, University of Calicut

Moreover, more financial powers are given to HODs. HOD's spending limit without seeking permission from higher authorities has increased from Rs.10,000 to Rs.15,000.

**6.5.3.** Is there a central body within the University to continuously review the teaching learning process/give details of its structure, methodologies of operation and outcome?

Yes, the Academic Council under the chairmanship of the Vice

Chancellor is the Central body which reviews, introduces and approves new ordinances or any changes to existing ones that govern the structure and operational aspects of various degree, diploma and certificate courses offered by the teaching Departments and affiliated colleges.

The Academic Council is responsible for granting approval to the syllabus of any course conducted by the University Departments and affiliated Colleges.

The syllabus recommended by the Board of Studies (BOS) in each discipline is presented to the Faculty by the concerned Chairman of the BOS who clarifies and justifies a syllabus with regard to its quality, relevance and standard. Upon observing any problems related to the teaching and learning process and evaluation, the Academic Council on its own initiative can make suitable recommendations to the concerned Board of Studies. The Academic Council and the Faculty are specifically meant for looking after the teaching learning process in the University. The Subject wise Board of Studies monitor the syllabus. The chairman of the Board of Studies and Dean of the faculty monitors the delivery. The examiners' list is finally approved by the Academic Council.

In addition, there is a Credit and Semester System (CSS) office, which acts as a coordinating body of all the University departments to continuously review the teaching and learning activities of its Departments that constantly keep a watch on the entire process of teaching learning in the University Departments and its Centres. The Research Standing Council scrutinizes the research proposals forwarded by the Department Councils. Likewise, different bodies within the University ensure that quality is maintained in the teaching learning process.

The IQAC was reconstituted in November 2012 and since then it acts as a central body within the University to continuously review the teaching learning process. The major activities of IQAC are reproduced here:

#### **Identification of best teaching Departments**

The best working Departments are to be identified. Orders have already been issued(appendix-6.1).

Collecting Students' feedback on Teachers. After collecting data the report is sent back to the corresponding Departments.

Linking of the University Research Council with research funding agencies.

Periodical release of the IQAC newsletter to inform the Departments of its activities, new initiatives and progress of the other ongoing schemes

Formation of Intellectual property Management cell

# **6.5.4.** How has IQAC contributed to institutionalizing quality assurance strategies and processes?

IQAC has contributed a lot in institutionalising quality assurance strategies of the University through the following steps:

Student evaluation of teachers

Infrastructure support

Seminars and Discussions

Strengthening of Confidential Assessment

Strengthening of Research Council

Compiling of AQAR

Drafting and dissemination of newsletter

Headship rotation in teaching Departments

Creation of new research centres.

Conversion of Research Centres into new Academic Departments like Nanoscience and Bioinformatics

New research centres have been created within a single Department also

Finishing school –three batches have passed out.

Soft skill training. A new proposal has also been submitted.

Formation of Placement Cell.

In addition to frequent seminars and workshops, IQAC has issued its newsletter KUIQ NEWS and is widely circulated among its teachers in the University Departments and affiliated Colleges. This inculcates the spirit of total quality among teachers.

**6.5.5.** How many decisions of the IQAC have been placed before the statutory authorities of the University for Implementation?

The major decisions of IQAC during 2013 are:

Seminar on best practices on quality education

Students Feed back

Department wise assessment

Centralised Purchases for the Departments

IOAC office

Newsletter publication

Workshop

Scrap disposal

Vision Statement for each Department and Research Centres

Comprehensive Work Study for administrative reforms

Planning Board

Research Council

After getting administrative sanctions from the statutory authorities, all the decisions of 2013 are under implementation in the year 2014 and in addition three more major decisions were taken in 2014. They are:

- 1.Letter of Intent filing
- 2. Self Study Report compilation
- 3. Administrative set up for quality assessment
- **6.5.6.** Does IQAC have external members on its committees? If so mention any significant contribution made by such members.

Yes, three external members, two from industry and one from the State Planning Board are included in the IQAC of our University. They are;

- 1.Dr.Babu Thomas, Sr. Vice President, Hindustan Latex Ltd,
- 2.Mr.Najeeb, CEO and MD, Air Travel Enterprises Ltd. and
- 3. Mr. Vijayaraghavan, Member, State Planning Board

The first two members help the University in getting the inputs from industry and thereby the University can modernize its curriculum and strengthen the research based on the needs of the industry. Moreover, it speeds up the process of Industry-University interaction for mutual benefit. The member from the State Planning Board enables the University in understanding the needs of the society and thus be more responsible to the society. Representation from other stakeholders such as NGO, Social Worker and Student representative are also ensured for its smooth functioning.

**6.5.7.** Has IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of the society?

The University of Kerala has established Dr.B.R.Ambedkar Chair to look after the needs of the students from disadvantaged sections of the society. IQAC has requested the chair to submit a proposal to make a study on the incremental growth of students in its University Teaching Departments, Centres and its affiliated Colleges.

**6.5.8.** What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres etc.

The policy of Annual Academic Audit by external experts to review the academic programmes of the Teaching Departments, periodical meetings of faculty with VC, PVC, Department Council meetings and Committees such as Standing Council of Syndicate, Research Council etc. and Committees periodically set up to review the functioning of the administrative and academic Departments will go a long way in reviewing the teaching, research, extension and consultation services of the University. The conduct of examinations and publication of results are also under thorough review. Reports of these committees are discussed in the Syndicate or Syndicate subcommittees and suggestions are implemented accordingly.

Thus, the Syndicate, Senate, Academic Council, Board of Faculties, Board of Studies and Department Council through their meetings co-ordinate and exercise general supervision over the academic, administrative and financial policies of the University and keep under review the standard of

Learning and Research in the University. Strengthening the review system, the University has announced Annul Award for the best teaching department in the University and best thesis in the University. A Research Council is also functioning in the University to review the performance of its research Scholars and thereby ensure quality of research.

**6.5.9** Any other information regarding Governess, leadership and Management which University would like to include:

The University of Kerala was ranked 19<sup>th</sup> among the top universities in India rated by India Today in 2013. Participatory and transparent governance, proactive and progressive leadership, timely decisions and speedy implementation strategies are the focus areas of the University. Monitoring Committees review the performance of various systems like Academic, Examination, Planning, HRD Cell, Administration, Library, Financial Management, the University Departments and Centres, Affiliated Colleges, Research and Publications, Academic-Industry interaction etc. Meetings of different stakeholders and decision-making bodies are frequently held and their suggestions are incorporated in the governance of the University. A continuous feedback system is also there in the University to correct the pitfalls if any, and thereby achieves the projected goals of the University and to serve the society at large.

#### List of Appendices

Annexure I: Award for Research Projects undertaken by the

Teachers of the University of Kerala

Annexure II: Application for Awards for Research Projects

2013-2014

Annexure III: Award for Research Projects undertaken by the

Teachers of the University Departments/Centres

Appendix IV: Committee for Academic Audit

Appendix V to IX: Receipts and Payments Account for the Years

2009-2013

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# CRITERION VI GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### **6.1.1** State the Vision and the Mission of the University

#### **Vision of the University**

The visions stated in the original Travancore the University Regulation 1937:

To effect reorganisation of the system of education in the State with a view to the gradual development of technical and technological education;

To make greater and more systematic provision for the furtherance of original research in various branches of science including applied branches and technology

To cater to the conservation and promotion of Kerala Arts and Culture.

In 1957, the Kerala University Act, Act 14 of 1957, was brought into force and the University of Travancore has since been renamed as the University of Kerala. The University is determined to march with a clear vision about the future development. In 2003, it prepared a Vision Statement, which have already been appreciated and acknowledged by the previous NAAC Committee. The vision statement emphasises the following:

To have institutional autonomy and academic freedom

To have strong but impartial public governance

To be campus rooted but internationally oriented

To be knowledge based and student centred

To be research driven and learning focused

To be quality and cost conscious but socially responsible

To be technologically sophisticated but community dependent

To be professionally attuned but humanly sensitive and above all

To be publicly accountable and socially committed

These visions were concisely read in the "Karmani Vyajyate Prajna" as noted in the logo of the University. It means that the intellect or knowledge reveals itself only through action. The motto is upheld in the performance of the University right from the beginning. The mission of the University is to spread knowledge through meaningful scientific intervention in all walks of life. The adoption of this vision is from the *Panchathantra* fables and is most appropriate to ignite the minds of anyone without discounting the age and capacity of their intellect.

#### Mission of the University

The University of Kerala pursues its vision by creating an academic community that educates the whole person, making student learning the central focus, continuously improving the curriculum and co-curriculum,

strengthening the scholarship and creative work, and serving the communities of which we are a part in Kerala and around the world. More specifically, the mission of the University includes:

To emerge as a centre of academic excellence through holistic education and development of right skills

To be recognized as the hub of original research and innovative thinking that caters to the needs of the Industry and Policy Makers

To strengthen the Consultancy services of the University through a full-fledged The University Industry tie-up and thereby tap resources of the Industry for its teaching, research and extension services

To actively respond to the momentous issues of our society and sociopolitical environment of the world

To transform our traditional the University into a the University of global standards that makes significant contribution an international level

To ensure that Departments and centres in the University have autonomy within the frame work of the established system and facilitate the same choice to the affiliated colleges.

To produce young entrepreneurs who can provide job opportunities rather than be job seekers

To be known across the globe for the diversity of its teachers and students, and the quality and employability of its graduates, in diverse fields

To produce internationally known leaders, scholars/scientists and sports persons

6.1.2. Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks it serve, the institution's tradition and value orientations, its vision for the future etc.?

Yes, to achieve its vision, the University of Kerala has formulated a mission plan, which defines the institution's distinctive characteristics as detailed below:

#### **6.1.2.** a. Addressing the Needs of the Society

The University's engagement with Extension and Outreach Programmes through its well established centres like Centre for Astronomical Observatory, Centre for Adult Continuing Education & Extension, School of Distance Education, Centre for English Language Teaching, Centre of Gandhian Studies, Centre for learning Difficulties and Disabilities, Centre for Performing & Visual Arts, Centre for Rural Studies, Centre for Vedanta Studies, Centre for Women Studies, Dr. B.R. Ambedkar Chair, Population Research Centre, Raja Ravi Varma Centre of Excellence for Visual Arts, Sree Narayana Centre for Social Change, Survey Research Centre, UGC Nehru Study Centre, V.K.Sukumaran Nair Chair for Parliamentary Affairs, Raja Ravi Varma Centre for Excellence for Visual Arts, National Social Services, and many other centres define the University's distinctive characteristics in

addressing the needs of the society. The establishment of the Centre for Learning Difficulties and Disabilities reflects the University's concern for the differently-abled. The University Employment Information and Guidance Bureau exclusively addresses the professional expectations of students and the Department of Physical Education provides coaching and guidance and the Department of Student Services provides coaching and guidance and prepares our students to face different competitive examinations at the State, National and International levels.

The University further carries out its mission of providing education in terms of inclusivity, access and equity through its Teaching Departments (42), Affiliated Colleges (244) (Government, Aided, Unaided, and Self financing Colleges) and SDE's Learners Support Centres both in Kerala and outside Kerala. The Department of Geology conducted an 11 day (Jan. 4 2014 to Jan. 14 2014) exhibition, GEO EXPO in connection with earth science awareness programme for school students and public. About 5000 school students, teachers and public witnessed the Expo. As an outreach programme, the Department of Commerce organised a Financial Literacy Programme for Tribal people in Wayanad district in November 2013. The Department of Aquatic Biology and Fisheries continuously interacts with the fishermen community and provide necessary support in their fishing occupation. They launched a web portal <a href="http://keralamarienelife.in">http://keralamarienelife.in</a> containing information on biodiversity which is useful to society. Thalakshra, an exhibition by ORIML, Film festivals by English Department, Documentary Film Production by Malayalam Department and Journalism Department, action on social issues like HIV/AIDS by Futures Studies Department, Legal Awareness Programme by Law Department, Heritage Walk hosted by History Department, Micro Credit System for Local People by Commerce Department, A Student's Talent Hunt programmes "PRODIGY" by Economics Department, Video CD by Bioinformatics Department, Faculty and Research Scholars visit and talks in schools, colleges and institutions like NISH, Cheshire Home etc. are some of the initiatives taken by the various Departments of the University to address the needs of the society (These are discussed in detail in Community Engagement, 6.2.1.d).

#### 6.1.2. b. Students it seeks to serve

The University's commitment to the student community is evident from the representation that it gives to student in various apex bodies of the University like Senate, Syndicate, Academic Council etc. In addition to Students 'Council, the Syndicate Standing Committee on Students' Discipline and Standing Committee on Students' Service also look into the needs of the student community. Moreover, its mission plan ensures that the academic activities are at par with national and international standards. As the mission plan elaborated on the revival of academic activities, The University semesterised its Degree, PG, M Phil and revamped Ph D programmes. To reorganize the conduct of academic programmes, The University adopted the School system. Departments and many Centres are elevated to the status of Schools and Departments respectively. To reassert the goal of improving technical knowledge, the University started many Science and M Tech. Courses under different faculties. This extended to Social Science and

Language departments. The collaboration with foreign universities and international agencies enrich the academic and administrative environment of the University. Keeping in mind the demand of stakeholders, the University starts innovative and new courses, affiliating new institutions. Moreover, the University has started new Engineering Colleges, various centres for its Institute of Management, the University Institute of Technology, Teachers Training Centres, Study Centres of Distance Education and Facilitating Programmes for Continuing and Adult Education.

To make library facilities accessible to students, the University revived the library system though collaborating with Inflibnet, updating its technological support through LAN and WAN system, facilitating access to online journals, keeping microfilms and CDs in archives, uniform catalogue and barcode system to make the books and journals accessible. It had already procured an extensive collection from the Cambridge the University Press, Wiley Online Library, SciFinder, and J-Gate- gateways to e-literature from across the globe. Very recently, the KUL has moved away from Libsys, a library management system, to Koha which is a more cost-effective open source solution that enables resource sharing between Departments of the University.

By adopting latest information technology, the University provides foolproof certificates with hologram; installation of IVR system to improve the accessibility, transparency in examinations is another student friendly initiative of the University.

District and Taluk Information Centres are started with the objective of helping students to obtain information from the University. Now 3 District Centres and 12 Taluk Information Centres are functioning to serve the students. The Centre for Career Guidance, Placement Cell, Hostel, Canteen, conduct of sports meet, conduct of Youth Festival separately for Affiliated College Students and The University Department Students, cultural activities etc. are the other initiatives taken by the University to fulfil their commitment to students as outlined in the Mission Statement of the University.

#### 6.1.2. c. Institution's Tradition

The University of Travancore which eventually became the University of Kerala was established in 1937 by a promulgation of the Maharaja of Sri Chithira Thirunal Balarama Varma. Sri Chithiria Thirunal Balarama Varma was the first Chancellor of the University and Sir C.P. Ramaswamy Ayyar, the then Diwan of the State was its first Vice-Chancellor. It was the sixteenth the University to be set up in India and ten colleges within the State of Travancore which were affiliated to the Madras the University became the affiliated colleges of the University of Travancore.

The University had three Campuses located in three different parts of the State, namely, Thiruvanathapuram, Ernakulam and Kozhikode. In 1968, the University centre at Kozhikode became a full-fledged the University covering the Colleges and Departments located in Thrissur, Palakkad, Kozhikode and Kannur district in Kerala. The Cochin University of Science and Technology and the Kerala Agricultural University were set up in 1971 and in 1983 the Mahatma Gandhi University was established. With the

establishment of these Universities, the area of the jurisdiction of the University of Kerala has been limited to Thiruvanathapuram, Kollam, Alappuzha districts and some part of Pathanamthitta district.

Publication facilities of the University brought many classical works such as *Hortus Malabaricus*, Books on Cultural and literary personals in Kerala, Malayalam Translations, International Centre for Kerala Studies (ICKS) publications, and many more including the History of the University of Kerala.

Selecting the University of Kerala as one of the sixteen India Study centres by UGC shows the acceptance and recognition of the University. In the highway of specialization, the University of Kerala is competent in building and initiating many specialized centres, elevating many as independent departments or schools. Honorary Degrees o the University such as D. Lit. and D. Sc. greatly revered by the academic community across the world. The University has been publishing, the Journal of Indian History from 1946 and is recognised as, a significant publication on historical studies and research. The University is the first in the state to have a synthetic track. In 2012, the University celebrated its Platinum Jubilee. In addition to several academic activities, a documentary film titled 'The Mother the University' was produced. All these attest to the kind of footprint the University of Kerala leaves in its historical long journey from 1937.

#### **6.1.2.** d.Value Orientations

The University ensures a sound value system within the University through the following steps:

- 1.Promoting transparency to improve accessibility, fairness in handling of examinations and grievances of students. At the UG level, there is a provision for fairness and justice through third valuation if asked for. At the PG level, there is a provision for recounting and recall of papers if necessary.
- 2. Promoting social justice to everyone through the process of reservation in the admission process, faculty and other administrative staff appointments.
- 3. Respecting human rights and the rights of women and children through Women Cell, Sexual harassment Cell and Nursery School.
- 4. Respect for Environment and Environment Protection through the adoption of a Green Charter

In addition, a number of activities and programmes are organised by the Departments, Centres, Student's Union andthe University Union to nurture and enrich value systems and promote value-oriented education. As stated in the mission statement, these activities help in inculcating aesthetic, cultural and moral values, upholding values of tolerance, co-existence and co-operation, mutual respect and appreciation of each other.

#### 6.1.2. e. Vision for the Future

The University of Kerala seeks to be a winner in the Global Competitive Environment through excellence in Education, Research,

Consultancy and Extension activities with value-based nurturing of the youth. Research Portal, Smart Classrooms, Wi-Fi enabled campus including Hostels, Multi-disciplinary studies, Video conferencing facility etc are other initiatives of the University in attaining its Vision. The University has revamped it Under Graduate stream by introducing the Choice Based Credit and Semester System in Affiliated Colleges. The courses in the University Departments are conducted in the Credit and Semester System, while the Post Graduate Courses in affiliated colleges follow the Semester pattern. The 42 Departments in the University have now been reorganised into eleven schools.

Thus, the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, and its vision for the future.

#### **6.1.3** How is the Leadership Involved?

# **6.1.3.** a. In ensuring the organisation's management system development, implementation and continuous improvement

The Chancellor, the Pro-Chancellor, the Vice Chancellor, the Pro Vice Chancellor, and the members of the Senate, the Syndicate, Academic Council and Board of Studies constitute a body of the University who regularly interact to frame suitable leadership policies to lead the University as a team for its academic growth. The Vice Chancellor is the chairman of the Senate, Syndicate, Academic Council, CSS and IQAC. The Vice Chancellor is also the chairman of all selection bodies constituted in the University.

The University has a clear management system in place to chart the road map of development and perspective planning to be innovative. The University's management structure ensures continuous improvement by:

- o involving in coordination and interaction with students, faculty and other staff with the objective to ensure smooth functioning and bestowing excellence within the system.
- involving in motivating and encouraging the faculty to give the best and to build a team spirit among the faculty members in all the departments.
- o interaction with the stakeholders to keep the system vibrant.
- regular consultation with the faculty members through various statutory bodies to give right direction in setting the pace for the future

#### 6.1.3. b. In Interacting with its Stakeholders

Stakeholders' representatives of the University are members of various statutory bodies and various committees. Such committee meetings are held regularly and views of all stakeholders given due space. Students interact directly with the faculty and the Heads of Departments. All faculty members have direct access to their Heads, Deans, Registrar and Vice Chancellor. All

office staffs have direct access to their Section Officers who in turn interact with the Assistant Registrar, Deputy Registrars and the Registrar. All other stakeholders like parents and members of the public have direct access with the teaching departments and administrative sections.

While interacting with the stakeholders, the leadership essentially plays the role of facilitator to ensure a win-win situation to all the stakeholders in the long run. The interactions primarily take place by way of formal gatherings as well as informal interaction on all available platforms.

#### 6.1.3. c. In reinforcing a culture of excellence

The University attempts to refine and define the parameters of excellence at all levels, which include academics, organising seminars and conferences, student empowerment and maintenance of support services. The major initiatives in this direction are listed here:

The curriculum is designed in such a manner that students have enough opportunities to engage in activities outside the classroom-learning environment.

Students obtained marks for seminar presentations as well as written assignments.

They are also exposed to emerging areas of research by conducting seminars/workshops in the frontier areas and for interaction with the students.

Eminent persons are invited to deliver lectures in frontier areas.

Students are encouraged to participate in national and international seminars.

The Research Council is actively engaged in promoting the quality of research through continuous interaction with research scholars.

IQAC under the chairmanship of Vice Chancellor has a proactive role in increasing the quality of teaching learning process through teacher evaluation by students.

Awards and recognition of Departments, Teachers and Researchers is a healthy practise and this instil confidence to the students and there is academic bonding among students that helps in engaging with the learning process in the University system.

The University collaborates with various institutes in India and abroad for multidisciplinary international research projects. These initiatives reinforce a culture of excellence in the University.

#### 6.1.3. d. In identifying organizational needs and striving to fulfil them

The University identifies organisational needs and strives to fulfil them democratically with committed participation. This is achieved through many subcommittees and meetings that address the needs of the institutions. The main committees in place to ensure the smooth work of the University include:

- 1. Standing Committees on Finance,
- 2. Standing Committee on Staff, Equipment and Buildings,
- 3. Standing Committee on Affiliation of Colleges and Courses of Studies,
- 4. Standing Committee on Examinations,
- 5. Standing Committee on Research and Scholarships,
- 6. Standing Committee on Planning, Development and Administrative Reforms,
- 7. Standing Committee on Library, Publications, Seminar, Conference and FIP,
- 8. Standing Committee on Teaching and Non -Teaching Staff of Private Colleges,
- 9. Standing Committee on Kerala the University Colleges of Teachers Education, UITs and Information Centres,
- 10. Standing Committee on Students' Discipline,
- 11. Standing Committee on Students' Service, and
- 12. Standing Committee on IMK.

The faculty members, PTA and Alumni in the University and the affiliated institutions are pro-active in establishing linkages with stakeholders as well as interacting with them. The Senate and Syndicate is the vital link with the public and emerges as a democratic link with external agencies and Ministries of State and Centre which helps the University in channelizing funds for infrastructural development. Table 6.1 clearly illustrates that over a period of six years there is a fivefold increases in the amount collected for infrastructure development: Rs. 4.50 crores in 2008-09 to Rs. 21.50 crore in 2014-15. Over a period of six years ,the University could mobilise Rs.85 crore from different funding agencies including UGC.

Table 6.1: Amount Mobilised for Infrastructure Development

		<b>1</b>
Year	Amount (crore)	Index
2008-09	4.50	100
2009-10	10.00	222
2010-11	12.00	266
2011-12	17.00	377
2012-13	20.00	444
2013-14	21.50	477
Total	85.00	

Source: Planning and Development

# 6.1.4. Were any of the top leadership positions of the University vacant for more than a year? If so, state the reasons.

There is no vacancy in the top leadership positions of the University for more than a year

### 6.1.5. Does the University ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes, the University always ensures that all positions in the various statutory bodies are filled and meetings are conducted regularly. The meetings of such policy-making bodies held during the last five years are illustrated in Table 6.1.

**Table 6.1:** Meetings of Decision Making Bodies

<b>D</b>	No. of meetings held						
Decision making body	2009	2010	2011	2012	2013		
Syndicate	18	4	10	14	15		
Senate	5	3	6	3	5		
Academic Council	4	3	3	4	3		

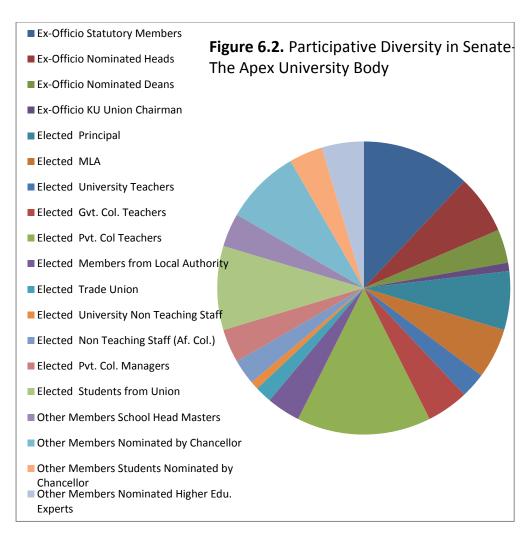
Source: Annual Reports (2009-2013), the University of Kerala

The Syndicate meetings are held frequently, on an average once in a month. The other decision making bodies like Faculty, Board of Studies, Department Councils are also held quite frequently for the smooth conduct and working of the University Departments, the University centres and its affiliated colleges.

## 6.1.6 Does the University promote a culture of participative management? If yes, indicate the levels of participative management.

Yes, as illustrated in fig.6.1. almost all stakeholders' representatives including students' representatives are there in the highest decision making body of the University, i.e. **Senate**. Their representatives are there in the **Syndicate** and **Academic Council**. Along with other stakeholders, Deans' representatives and HOD's representatives are also there in these three top decision making bodies of the University, i.e. **Senate**, **Syndicate and Academic Council**.

All matters of importance are discussed and dealt with in the Dean's / HOD's committee on most occasions; the day to day functioning at the department level is ensured by the **Departmental Council** with participatory management. Headship is rotated every three years to ensure total participation among faculty. The representatives of students and faculty members are in the Syndicate, Senate and Academic Council which are the statutory bodies. The University ensures participative management in its Syndicate, Senate, Academic Councils, Faculty, Board of Studies (separate for PG and UG) and Department Councils. A miniature form of the inclusiveness in the Senate, the apex body of the University in any matter of decision is depicted in Figure 6.2.



## 6.1.7 Give details of the academic and administrative leadership provided bathe University to its affiliated colleges and the support and encouragement given to them to become autonomous.

The representatives of affiliated College Principals, Managers, Teachers and Students are the members of the University's highest decision making bodies like Senate, Syndicate and Academic Councils. They become a part of the academic and administrative leadership of the University. It stimulates a feeling of collective responsibility. In addition, the University has Affiliation Committees which regularly visit each affiliated colleges to assess infrastructural and academic requirements before granting permission to commence new courses and colleges. This further stimulates the principal, manager, and teachers to give necessary guidelines to their colleagues in connection with starting of new courses or colleges which indirectly promotes the spirit of leadership.

The procedure to accord autonomy to deserving colleges was laid down in the recently ordinance of the University. It facilitates the process of colleges becoming autonomous. Academic Council and Senates scrutinize all proposals of institutions seeking affiliation without prejudice. The University teachers provide academic leadership to affiliating colleges in the following ways: Acting as members of UG&PG Board of studies in such autonomous colleges, Dean of Faculties chairing seminar sessions in colleges, supporting

teacher training in the Academic Staff College and organizing workshops and seminars for college teachers. The University teachers also support the colleges in curriculum design and examination processes.

## 6.1.8 Have any provisions been incorporated/introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

The University of Kerala just started the process of giving autonomous status to colleges and as a first step the University has inspected and recommended to the Government and UGC to give autonomous status to three colleges shortlisted for the purpose.

### 6.1.9 How does the University groom leadership at various levels? Give details.

Apart from provision of membership in all the decision making bodies of the University like Senate, Syndicate, all teaching staff, non-teaching staff and technical staff have their own democratic associations and their representatives participate in the decision making process. Rotation of headship, the participation of the Dean of faculty in administration inculcates leadership quality among teachers. Teachers and non-teaching staff participate in the activities of various Associations/Organizations. This often creates a sense of responsibility sharing, partnership building, and joint ventures through a democratic procedure, share a common platform within the University community promoting active participation which creates opportunities to groom an efficient community. Departments' union, and Researchers' union, groom leaders to represent the entire students' fraternity. Apart from that, the organizations like NSS; NCC etc. also groom the sensibility and leadership of students in the University Departments and its affiliated colleges.

The University also takes steps to organize orientation, training and soft skill programmers for employees, faculty members, students and other stakeholders: Agencies/Programmers like IMG, FLAIR, ASPIRE are some of them. Our teachers act as the coordinators of these programmers. Our teachers also act as the coordinators of Refresher Courses and Orientation Programmers conducted by the Academic Staff College. A good number of the University teachers act as the Directors of Centers constituted by the University. Teachers also actively participate in students' extracurricular activities like sports and games, Student Union elections etc. All these steps go a long way in grooming leadership qualities among teachers, non-teaching staff and students of the University.

## 6.1.10. Has the University evolved a knowledge management strategy? If yes, give details.

Yes, the University has over the years evolved a knowledge management strategy to maximize its competency to perform effectively and efficiently towards higher productivity. Accordingly several initiatives have been taken by the University. Some major initiatives are discussed here:

- 1. The University of Kerala has an Intellectual Property Management Cell which discusses issues relate to IP and has drawn up an IP policy to cater to the wide range of needs. The elements of knowledge management strategy are outlined and this is under consideration for adoption bythe University.
- 2. Students are equipped to participate in the University level as well as State level debates, elocution, literary competitions etc. through the continuous efforts from the University Faculty and Students 'Union.
- 3. Knowledge dissemination through ISSN and ISBN publications of high repute and following the directives of UGC/The University, seminars/conferences/workshops etc. are held frequently in the University departments and its affiliated Colleges.
- 4. Students and faculty can make use of the e-resources subscribed through INFLIBNET facility in the University
- 5. Knowledge created and generated in the University are documented and archived in the University Central Library, Palayam are made available through electronic and print media to all sections.
- 6. The Manuscript Library at Kariavattom Campus is distinctive and has a rare collection. The Manuscript library of the University is a storehouse of knowledge and even scholars from foreign countries visit it quite frequently.
- 7. The facility of online referencing of thesis just started by the University adds to the knowledge dissemination beyond boundaries.
- 8. The IQAC which got the status of a statutory bodytakes care of the quality of all academic and knowledge oriented activities of the University.
- 9. The Future Studies Department of the University has started an Post Graduate Diploma programme in Knowledge Management.
- 10. The University's web site <u>www.keralauniversity.ac.in</u> offers several services like downloadable application forms, question papers of past examinations, free resource links, on line catalogue on Library and list of recognized Degrees of other universities.
- 11. The system for automated governance of examinations (SAGE) developed by the Computer Centre is a unique facility which has enabled online registration and e-payments for examinations.

All these steps are the major milestones in the knowledge management strategy of the University of Kerala.

## 6.1.11. How are the following values reflected in the functioning of the University?

#### **Contributing to national development**

The University of Kerala is sensitive to the educational requirements of the people from various parts of the state with the objective of achieving the required gross enrolment ratio with the support of its teaching departments, centers and affiliated colleges under its jurisdiction. It indirectly resulted in manpower mobility, i.e. a large number of our alumni are serving as teachers, nurses etc. in foreign countries and earn foreign exchange which help in the national development of our country. It also increased the quality of life and health standards in our state. Further, under the auspicious of the Departments and Centres seminars and discussions are organized on themes of national importance. Faculty members of our University are invited by funding agencies to undertake major research projects of national importance. In addition, many faculty members are invited to chair sessions at national and international conferences, deliver invited talks, and conduct of Ph.D. Viva Voce from different parts of the country. Some of our Departments are participating in collaborative programmes with Govt. of India and Govt. of Kerala. For instance, the Department of Demography is collaborating with the Census Directorate of the Government of India; the Department of Environmental Science is collaborating with the Government of Kerala for auditing the river sand of the rivers in Kerala and Environmental Impact Assessment of Clay mining sites in Kerala. Again, the Department of Optoelectronics has reserved two M.Tech.seats for scientists and other officers.

### 6.1.11. a. Fostering global competencies among students

The Student Exchange Programmes recently introduced in the University with some high profile Universities in the USA will go a long way in fostering global competence in our students. As a mutually beneficial exercise, the first batch of students from USA completed their course of study for one semester in our University. In addition, students are encouraged to take up online courses foreign universities, participating in the online discussion forums and groups, attending live lecture-cast from some prestigious scientists or writers outside India, giving online presentations in International Conferences, and Seminars.

#### 6.1.11. b. Inculcating a sound value system among students

An informal but very strong culture of instilling valuesystem prevails in the University. Students imbibe values by way of experience and interaction with their seniors in Departments, hostels and cultural bodies in the campus.

Another step aimed at inculcating value system is the introduction of courses dealing with humanities and essentials of religious teachings as part of the curriculum at UG level in its affiliated colleges and centres. The University supports Centres like Christian Study Centre for Cultural and Social Change, Centre for Cultural Studies, Centre for Gandhian Studies, Centre for Vedanata Studies, Centre for Women's Studies, Dr.B.R. Ambedkar Chair, Sree Naryana Centre for Social Change, UGC Nehru Study Centre etc.UGC Area Study Centre for Canadian Studies etc. with the basic intention of inculcating a value system among its students.

#### 6.1.11. c. Promoting use of technology

The University has an IT Policy as a part of promoting the use of technology among its students, teachers and administration. Apart from availability of computer lab with internet facility for students in the Departments, Centres, Hostels and PCs for faculty, the University has completed the process of building IT enabled classroom (Smart Class room) spread over different departments. The teachers are also encouraged to have their own websites and upload their lectures and reading materials accessible

through internet. Online publication of souvenir and journals are also promoted in the University Departments. Computerization of the University office and examination wing is almost over and will be accessible to all students of the University and affiliated colleges. The University has successfully introduced online system of application for admission to UG and PG programmes of its affiliated colleges which helps the students a lot as they could save time and effort in sending multiple applications to different colleges at the same. The introduction of online admission makes the entire process transparent and error free. Campus-wide availability of Wi-Fi further promotes the use of this technology.

#### 6.1.11. d. Quest for Excellence

Interaction and collaborative events are held regularly with industry associations and professional bodies. Invited talks by experts are also arranged frequently. Campus wide Wi-Fi facility, soft class rooms, online reference facility, extension of library time (8 am to midnight 12.00), recognition of performing Department (Best Department Award), Best Thesis award(Bhashaykkoru Dollar), Best Paper award etc. will ensure that there is excellence in teaching and research work in the University.

#### 6.2. Strategy Development and Deployment

The University realizes its unique place in informing and directing process of knowledge management, as well as set a role model for others while adopting suitable methods for strategy development and deployment. Knowledge portfolio, knowledge exchange, interdisciplinary research, creativity plus leadership skills etc. are the specific areas in which the University gives its stress for strategy development and deployment. Planning and Development Cell of the University under the charge of a full time Director takes special interest in this regard.

## 6.2.1 Does the University have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

Yes. The University of Kerala has a perspective plan for development which has been formulated based on the Vision and Mission of the University and is the guiding force that helps the University Departments, Centres and its affiliated colleges to plan their activities. The Planning and Development Cell and College Development Council jointly prepare the perspective plans and policies based on the activities proposed by various schools, Departments and its affiliated colleges for the calendar year. This action plan is submitted to the Senate for approval and implementation.

The Syndicate monitors and reviews the plans/ projects implemented by holding formal and informal dialogues with the Deans, Heads and Principals of Colleges, from time to time.

#### 6.2.1. a. Vision and Mission:

The vision and mission of the University ultimately leads to imparting quality education that focuses on Empowerment through Learning and Enrichment through Research. In line with the vision, Choice Based Credit System (CBCS) for Bachelor Degree programmes and Credits and Semester System for Post Graduate programmes were introduced. New programmes like

M.Phil. Knowledge Management, M.Tech. programme by Opto-Electronic Department and Futures Studies Department have been promoted and seats for most programmes were increased.

### **6.2.1.** b. Teaching and Learning:

Teaching and learning is of utmost importance in our University Departments and its affiliated colleges. In order to provide practical experience to students in exploration and excavation techniques, Departments and affiliated colleges offer compulsory field training. The University strengthens its existing academic programmes by strengthening library and laboratory facilities and by introducing new courses in the frontier areas. The needs of the Industry are also taken care of while revising the curriculum. The CSS supervises the continuous assessment of PG and M.Phil. programmes of the University departments where innovative teaching and learning methods are imparted.

#### **6.2.1.** c. Research and Development:

The University has a Research Development Council which facilitates the research of the University Departments, Centres and affiliated Colleges by linking to Research Organizations. Accordingly the University encourages research activities especially through various research projects run by the faculty members. These research projects seek participation and expertise at various levels nationally and internationally. In addition to this, dissertations submitted at the Post doctoral, Ph.D., M.Phil.andP.G. levels do contribute to discovery of new ideas or issues that are taken up by future researchers.

#### **6.2.1.** d. Community Engagement:

The Specific Programmes/Schemes implemented by the University as a part of its community engagement are discussed here:

Film Festivals (English): The Institute of English has a very vibrant film club, which functions not only as a mode of extracurricular activity for the students but seeks to study the rich field of popular culture in Kerala and India. In association with the Centre for Cultural Studies, a number of programmes have been hosted. There are regular film screenings and discussions that have curricular dimensions in helping students study how narratives function in film as in literature. A Campus Film Festival at an all Kerala levelwas also held in last year.

Marine Life Web Portal: An interdisciplinary project by the Department of Aquatic Biology and Fisheries and the Department of Computational Biology and Bioinformatics supported by Kerala State Council for Science, Technology and Environment (KSCSTE) launched a web portal <a href="http://keralamarinelife.in/">http://keralamarinelife.in/</a> which contains information on marine biodiversity which is useful to society.

**Thalaakshara** (ORI): The Oriental Research Institute and Manuscripts Library which has a unique collection of over 60,000 manuscripts has been holding exhibition to disseminate knowledge about these manuscripts to the general public. This exhibition titled 'Thalaakshara' is held for two months and a large number of students from schools and general public have been visiting and getting knowledge about the manuscripts.

Acquiring Manuscripts & Free Service to needy: The Oriental Research Institute and Manuscripts Library realizing the fact that there are many families, who possess very rare manuscripts, prompt these families or persons to contribute the manuscripts to the library. In the event of the persons or families who are not ready to part with the manuscripts in their possession, the manuscripts library offers free service for proper preservation of the same.

**Popular Science Articles (Corona-A compilation):** Many popular science articles have been written by DCBians in popular technical magazines. They have been compiled and published under the caption 'Corona' in 2013.

Programmes for school Children/Children of campus community

- i. Innovation in Science Pursuit for Inspired Research (INSPIRE) is a unique programmes initiated by the Department of Science and Technology, Govt. of India to attract young talent towards advanced studies and research in basic sciences. From the year 2011 onwards, the University organizes Summer Camps for about 100 students selected from the top-scoring SSLC students from the state. Leading scientists in India interact with the students in the camp.
- ii. Inculcate-A Science Propagation Programme of Kerala State Science & Technology Museum organized through the Universities in Kerala. The objective is to catch potential scientists at a young age and nurture their inborn talents for scientific learning and research. Residential Training Programmes are organized by the University annually for the students selected from the Government and Aided Schools in India and the selected students are attached to the faculty, who serve as mentors for the students.
- iii. **Balasasthra Congress of Kerala Sastra Sahitya Parishad** was organized in the University Campus (Kariavattom) in the year 2010 for about 100 selected students and they were attached with the Departments of Aquatic Biology and Fisheries, Botany, Biochemistry, Biotechnology and Environmental Sciences.

**Extension Activities** by the Teaching Departments: For school students and common public various extension activities are launched. Amusing aspects of science, crafts, games and green activities are incorporated in the extension programmes. Experienced science communicators are also invited to conduct the classes apart from the faculty and research scholars of the department. The following are some of the outreach programmes.

**One Day/ Fun day:** A one day event to foster creativity and science in school children is organized every May since 2008. More than 50 students from class I to IX participate in the programme.

**Visits**: Faculties and research scholars visit and deliver popular science talks in schools, colleges and in institutions like National Institute for Speech & Hearing(NISH), Cheshire Home, Higher Secondary Schools, and Colleges.

**Schools**: When the University hosted Nobel Laureates, their interaction with the public and school children was arranged.

**Video CD by Bioinformatics Department:** A video CD introducing the subject of Bio-informatics targeting students who wants to study the subject in a distance education mode was prepared by the department of Bio informatics in 2012.

**'Prodigy' by the Department of Economics:** The Department of Economics and its MA students organize annually a student's talent hunt programme "Prodigy". The programme has a wide reach among various institutions in and out of the University of Kerala, which sets it apart.

**E-journal publishing**: The department of Journalism and Communication has been publishing it student journals in the form of e-journal format named 'Kalari'.

Action on Social Issues: In the early nineties, when HIV/AIDS developed into a pandemic, Futures Studies Department carried out a number of research projects on the same issue associating with different agencies including doctors working in the area, which was acclaimed internationally. One such work 'Anticipatory crisis management of HIV/AIDS' caught wider national/international attention. The Department carried out an epidemiological study on Chickun Gunya associating with National Institute of Virology, Pune. The Department also conducted research on stress management of IT workers as well as pain mitigating aspects of cancer patients.

The other major initiatives in this direction include:

Legal Awareness Programme by Law Department

Heritage Walk hosted by History Department

Micro Credit System for local People by Commerce Department

Documentary Film Production by Journalism and Malayalam Department

GEO EXPO by Geology Department

Financial Awareness Programme among Tribal people by Commerce Department.

Assessment of Water Needs of a Panchayat in Kollam district by Geology Department.

#### 6.2.1. e. Human Resource Planning and Development

The Standing Committee on Planning Development and Administrative Reforms chaired by a Syndicate Member take care of the human resource needs of the University. Teachers are given support to attend training programmes, workshops and seminars for development of competencies and networking. The University has recognized the needs of the times and as monitoring mechanism introduced Academic Audit. This audit takes care of the planning and development needs of the academic community in the University. A Placement Cell is also functioning in the University to help its students get better placement after their course of study and research. Short term training programmes for administrative staff are frequently held by the Academic Staff College of the University. External agencies like IMG, CMD etc. also provide short term computer training and other administrative skill

development programmes for non-teaching staff. Above all, the perspective plan of the University proposes short term and long term training and Induction programmes for the Principals and Teachers of its affiliated colleges through the Academic Staff College of the University.

### **6.2.1. f. Industry interaction**:

Interaction with industry is actualized through seminars, workshops, internships, research, and consultancy projects. Along with academicians people from the Industry are also asked to participate in these programmes. Surveys by industrial organizations are envisaged for relevance and need assessment of courses. Summer training and placements are also made possible through Industry-the University interaction. The University invites people from industry for curriculum design and in some cases industry people act as the Chairperson of the Board Studies, for instance. The Board of Studies of the Management Faculty is headed by the HLL chairman and CEO. Dr.Ayyappan. Guest faculties are also invited from Industry provide experts as practitioners in the field.

### **6.2.1. g.** Internationalization:

The major steps initiated by the University of Kerala in the development of policies and strategies related to Internationalization are listed here:

- i. **Admission in Academic Programmes**: Foreign students are admitted in the PG/M.Phil./Ph.D. programmes in the University Departments and Centres. Our students also have opportunity to continue their studies in foreign universities and colleges.
- ii. Semester–In-India programmeme (SIP): The University of Kerala successfully implemented the Semester-In-India programme. The students of four American Universities were admitted to a single semester of Master's programme in the University of Kerala. The students do a set of common core courses in the University and further choose courses from various departments of the University. These programmes have been economically viable and culturally enabling and it acted as a trigger of change in the University campus.
- iii. **Foreign Students Meet:** The University of Kerala organized the first ever foreign students meet at the University on December 7, 2013.
- iv. **International Youth Hostel:** In connection with its Diamond Jubilee Celebration, the University had constructed an International Youth Hostel in Thriuvanathapuram, which provides accommodation to foreign students of the University.
- v. Publishing History & Current Statistics of Foreign Linkages: To plan well for the international activities of the University, a history and current statistics of foreign linkages of the University of Kerala was compiled and published. This has given a solid platform to design the University's international activities.

- vi. Erasmus-Mundus Programme, Obama-Singh Initiative: The University of Kerala has been successfully running the Erasmus Mundus programme and later the EMINTE programme by the United Nations enabling scholars and teachers to visit nine European universities and attract students and scholars from these universities to the University of Kerala. At present, the University has also submitted an application for interaction with Green Valley State the University under the Obama-Singh initiative.
- **vii.** Collaborations: MoUs signed for exchange of teaching staff, creation of co-ordinated Teaching and Collaborative research with:

The University of Valladolid, Spain

The University of Paris

Natural History Museum, London

John Hopkins the University USA

Human Nutrition Centre, Beltsville Maryland USA

Claremont Graduate the University California, USA

International Atomic Energy, Vienna Austria

Montclair the University, New Jersey, USA

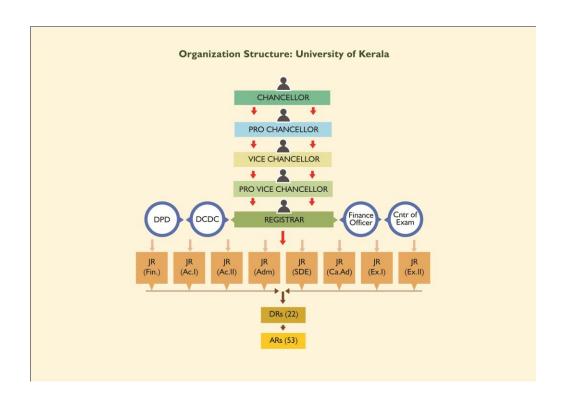
Mid Sweden the University, Sweden

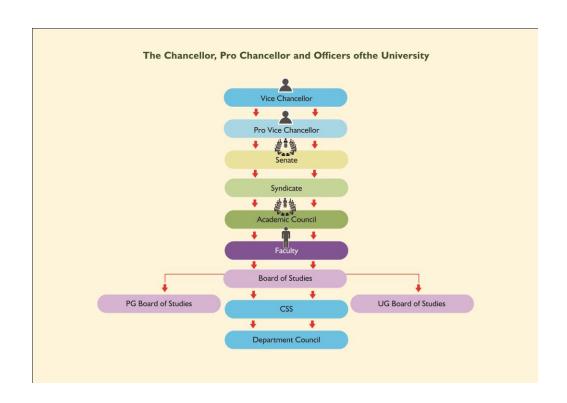
Queen's the University, Victoria, Australia - Faculty Visit

#### viii. Membership of the University in:

- 1. Association of SAARC Universities
- 2. International Association of Universities
- 3. Association of Universities of Asia and the Pacific
- 4. Association of Commonwealth Universities
- 5. Association of Indian Universities
- **6.** India Member Council of Shastri Indo Canadian Institute
- **6.2.2** Describe the University's internal organizational structure and decision making processes and their effectiveness

The State University has the Chancellor and Pro Chancellor as the heads who steer the institution. The Vice Chancellor is the head of the institution. The Pro Vice Chancellor assists the Vice Chancellor in both academic and administrative matters. The Registrar is placed as the head of executive. The Registrar is assisted by Joint Registrars, Deputy Registrars, and Assistant Registrars as they head their concerned departments and sections. The details are given in fig.6.2.and 6.3.





The decisions in the University are taken in accordance with the provisions of the University of Kerala Act and Statutes, Ordinances, Rules and Regulations, Financial Code, Administrative procedures, Office procedure manual, Fundamental Rules and Supplementary Rules, General Financial Rule, Pension and Gratuity rules and other directives received from State Government, MHRD, UGC etc. Policy matters are decided at the level of Vice-Chancellor/ Senate /Syndicate /Academic Council/Finance Committee/ Faculty/ Board of Studies of the University.

The Senate, which is the upper most decision making body of the University consists 116 members both elected (84) and nominated (32) with ex-officio members. This body is the highest decision making authority both in terms of academic and administrative functioning of the University. It can review the actions of the Syndicate and Academic Council. The ex-officio members of the senate includes: The Chancellor, Pro Chancellor, Vice Chancellor, Pro Vice Chancellor, Finance Secretary to Government, DPI, DCE, Secretary/Additional Secretary to Government HED, IT Secretary to Government, DTE, Chairman SABE, Mayor of Trivandrum, seven Heads of the University teaching Departments and four Deans of Faculties and Chairperson of the University Union. Elected members include: Seven Principals from Government Colleges, Six members are elected from the Legislative Assembly, three teachers from the University teaching Departments, five members from government college teachers, sixteen members from teachers of private colleges, one member from each district by local authority, two trade union members, one member from non-teaching staff of the University, three members from the non-teaching staff of the affiliated colleges including one from government college, four members elected by the managers of private colleges, ten members from the council of the University union. Other than this, two headmasters and two teachers of schools situated within the University area, nine members from various walks of life which include recognised research institutes, cultural associations, chambers of commerce, industries, authors, journalists, lawyers, sports and linguistic minorities. Four students other than elected members are nominated by Chancellor from humanities, sciences, arts and sports. nominates five education experts. The composition of senate represents the fine blend of academic, intellectual and common aspirations of the people, which exhibits the democratic, representative and socially responsible mode of functioning of the University.

The Syndicate is the chief executive body of the University, which consists of a maximum of 19 members. It includes six ex-officio and 13 elected members from the Senate. The powers of the Syndicate include affiliation of the institutions, make Ordinance, Statutes, etc.

The leadership involved is to reinforce a culture of excellence through the Academic Council, Faculties, Board of Studies, and Students' Council. the University of Kerala has a long tradition of maintaining excellence in academics and research activities and the internal communication networks ensures that the leadership is aware of facts and actions implemented. The following are the operational mode to facilitate that excellence:

Academic Council (AC) is the academic body of the University. It consists of the VC, PVC, DPI, DTE, DCE, DRS, DPE, Deans of Faculties, General Secretary of the University Union, Heads of Departments other than Deans, Members of Syndicate, Five Principals including one from Government Professional College elected by Principals of Professional Colleges. Seven principals including one government college principal other than oriental languages, two members from junior college and one principal from oriental language colleges elected by principals. An expert member in each subject other than whom the Dean/Head/Principals, are elected by the teachers of that subject. One headmaster and a teacher in the University area as well as five external experts are to be nominated by the Chancellor. Apart from this, one member representing each faculty should be elected by the full time postgraduate students of the faculties. The powers and duties of the AC include:

to advise the Senate and the Syndicate on all academic matters

to prescribe the courses of studies in the institutions that come/or are affiliated under the University and

to prescribe the qualification of teachers, colleges, and admissions of the students .

The Faculties operate under the AC and their brief has to do with the teaching and the courses of study and research in such subjects as may be assigned to such faculty by the Ordinances or Regulations. Each faculty shall consist of a Chairperson who is the chairperson of the Board of Studies in the Faculty, two members elected from each Board of Studies, and between five to ten members nominated by the Syndicate. The Chancellor in consultation with the Vice Chancellor nominates the Deans of Faculties.

The Board of Studies are attached to each department of the University to look after and monitor the academic activities in its specialised sense to cater to excellence.

Students' Council make recommendations to the Syndicate and to the Academic Council on matters affecting the academic work of the students, such as the structure of courses and pattern of instruction, welfare of the students, matters related to sports, working of literary and other societies, management of hostels, student homes and non resident student centres, extension work, social work, students health, National Service Scheme (NSS) and National Cadets Corps (NCC) for the review of the University Administration. The University is positive to the genuine concerns of the Students' Council, which further strengthens the excellence in academic and administrative matters.

The Finance Committee gives advice to the University on any question affecting its finances. It is a seven-member body with the Vice-Chancellor as Chairman and Finance Secretary to Government or his nominee and the Secretary to Government, Higher Education or his nominee as members. The Secretary of Finance Committee is the Finance Officer of the University.

The Vice-Chancellor is the principal academic and executive officer of the University, exercises general supervision and control over the affairs of the University, and gives effect to the decisions of the authorities. The Pro-Vice Chancellor has powers and functions as determined by the Chancellor in consultation with the Vice-Chancellor. The Registrar is in charge of administration of the University Office, subject to the general direction and control of the Vice-Chancellor. The Controller of Examinations is responsible for the University examinations. The Finance Officer is in charge of finance, accounts, audit, and the Joint Registrars, Deputy Registrars and Assistant Registrars perform duties assigned to them by the Vice-Chancellor, the Registrar and the other officers in day-to-day administration.

The University has adopted a decentralised administrative structure, thereby enabling Faculties/Schools/Departments/Centres/Colleges to take decisions in conformity with the rules of the University and within the delegated powers. It enables the University to effectively implement its decisions at the right time in the right spirit.

## 6.2.3 Does the University have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes, the University has a formal policy for ensuring quality system for conscious, consistent and catalytic programmed action to improve the academic and administrative action to improve the academic and administrative performance. The policy contains measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices. It is managed through the IQAC. The mandates of the IQAC are:

To establish internal mechanisms for sustenance, assurance and enhancement of quality

Proactive functioning of IQAC to ensure healthy practice

To ensure quality as collective responsibility

To facilitate and play a strategic role in academic administration

The IQAC chaired by the as a Vice Chancellor has vibrant steering committee with at the University Professor as its Director. There are 12 senior the University teachers in the committee in addition to 5 syndicate members. Three experts from industry/ Local Community and representatives from other stake holders are also there in the steering committee. With the intention of ensuring total quality, the IQAC proposed a Planning Board which was approved by the University. Similarly, to ensure quality research, a Research Council was proposed by the IQAC and the same was approved. The IQAC also resolved to have a vision statement which encompasses the vision of all the teaching departments and research centres in the University. Separate Expert Committees are functioning for each of these bodies; IQAC has suggested a comprehensive Work Study in order to bring in administrative reforms in the University. The Centre for Management Development is entrusted with the Administrative Reform Study.

The bodies other than IQAC which design, drive, deploy and review the quality in teaching and research activities of the University are:

Monitoring Committee under CSS

Research Council and

Department Council

These bodies helptheUniversity help in ensuring quality through the following steps;

Curriculum design

Continuous assessment

Promotion of the University Centres

Arrangement of training programmes etc.

## 6.2.4 Does the University encourage its academic Departments to function independently and autonomously and how does it ensure accountability?

The University introduced the Credit and Semester System (CSS) for all the post graduate programmes (Masters degree) conducted in the University teaching departments from 1995 onwards. The CSS ensures adequate autonomy to the academic departments in the University. Academic Committee constituted by the Vice-Chancellor monitors and coordinates the working of the credit and semester system. The term of office of the committee shall be two years. The committee consists of the following members; The Vice-Chancellor (Chairman of the committee), The Pro-Vice-Chancellor, Member of the Syndicate representing the University teachers, three deans of the University, two HoDs of the University departments other than Deans, Three the University teachers other than Deans and HoDs. A senior professor nominated by the Vice-Chancellor from among the members of the committee shall be the vice-chairman of the committee. Every P G Programme conducted in the University shall be monitored by the Department Council. The Department Council shall be the authority to design courses, prescribe the mode of conducting the course and evaluate the students and teachers. Department Council shall meet at least thrice every semester- at the beginning, in the middle and at the end of the semester. In the last meeting of the semester, the Council shall finalize the results of the students for the semester.

## 6.2.5. During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

The Legal Wing of the University of Kerala is functioning under the administrative control of the Registrar, the University of Kerala. The legal wing deals with cases in various courts ranging from First Class Magistrate Courts, Munsiff Courts to Hon'ble Supreme Court of India. This wing also deals with some cases with Kerala LokAyukta, Consumer Protection forum, Human Rights Commission, Kerala LokAdalath etc. The legal wing of the University of Kerala has been taking efforts to dispose matters in various courts in a time bound manner with the help of timely instructions from the

Counsels appearing for the University of Kerala. The legal issues involved in each matter have been promptly addressed by the Standing Counsel before the Hon'ble High Court of Kerala and by the Legal Advisor before the Court of law other than the Hon'ble High Court. The matter before the Hon'ble Supreme court of India is usually entrusted to counsels having good standing in consultation with the Standing counsel.

The Writ Petitions and complaints filed before various courts of law has been processed by the Legal wing on the basis of specific instructions made by the counsels of the University. The counter affidavits and statement of facts along with the supporting exhibits are filed within the time frame granted by the Courts of Law. The arguments and statements placed in favour of the University by the Counsels are duly endorsed and approved by the Vice Chancellor and the Registrar. The directions/orders if any made by the legal forums are complied without delay unless there is scope of canvassing the correctness of such directions/orders. While dealing or defending any action or decision of the University before the court of law, the emphasis has been given to the provisions of the University Act, Statutes and Ordinance enacted by the Legislature and the Academic and Examination regulations framed by the Academic bodies of the University. The Legal Wing in the University has been functioning in tandem with all other wings in its efforts to protect the interest of the University without delay or denial of justice to those who approach this esteemed institution for their various educational purposes.

The functions of the Legal wing have been continuously monitored by an in house mechanism in the form of Legal Monitoring Committee (LMC), which is one of the sub-committees of the Syndicate of the University. The Legal Monitoring Committee is usually chaired by the Pro-Vice Chancellor of the University, which discusses and makes recommendations on key issues relating to various matters before the Courts of Law. The Legal Monitoring Committee recommendations are usually placed before the very next meeting of the Syndicate of the University for approval and final decision.

The details of various petitions and complaints dealt by the Legal wing of the University of Kerala in the last four years have been summarized in table 6. 3.

**Table 6.3:** Number of cases filed against and by the University

	Cases filed aga	inst the University	Cases filed by University		
Year	Number of cases	Index of increase or Decrease	Number of cases	Index of increase or Decrease	
2010	300	100	11	100	
2011	309	103	12	109.09	
2012	247	82.33	52	472.72	
2013	217	72.33	25	227.27	

Source: Legal Section, the University of Kerala

During the last four years,1073 cases were filed against the University while the University filed100 cases. In case of teaching and non-teaching staff, the critical issues were related to promotion and service matters. Some of the cases were related to disciplinary issues also. In case of court cases filed by students, they were mostly related to admission and examinations.

# 6.2.6 How does the University ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

At the Department level, the Department Council chaired by the HOD takes care of the issues of the students.

At the University level, there is a Standing Committee on Student Discipline of the Syndicate to look after the grievances and complaints of students. A student representative in the Syndicate is also there in the Standing Council. Above all, there is a Student Council headed by the Vice Chancellor to look into the exceptional issues that sometimes still remain unsolved. Some specific committees such as Students Grievance Cell, SC/ST Cell, Equal Opportunity Cell, Anti Ragging Council, Cell to Combat Sexual Harassment and Women Empowerment Cell also function at the University level to solve issues of specific nature. Above all, to solve the issues of teachers, there is at the University Appellate Tribunal.

## 6.2.7 Does the University have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes. The IQAC team visits every department and administered questionnaires to students. The questionnaires are collected and the response tabulated and each teacher given a report with their score. This is to help the teachers improve and fine tune their teaching methods keeping in mind the needs of the students. The Department Council chaired by the HOD also looks into the matter if any serious issues are raised by students.

## **6.2.8** Does the University conduct performance audit of the various Departments?

Yes, Once in every year. The IQAC, the internal mechanism for sustenance, assurance and enhancement of quality is entrusted with the task of performance audit of its Departments. Towards this, a team lead by the PVC visited every department and urges the faculty to update the Activities Register. All Departments are asked to explore the possibility of bringing out a brochure highlighting the activities of the Department and their future plans. Departments are encouraged to use the University website to project the healthy practices in the teaching-learning process. The IQAC team has made an on the spot assessment of the needs of the teaching departments, prepared a statement and initiated steps to address the needs. The team also interacts with the students of the Department.

## 6.2.9 What mechanisms have been evolved by the University to identify the developmental needs of its affiliated institutions?

- 1.Representation of members of teaching/Non-teaching staff, Principals, Students are ensured in the various academic/executive bodies of the University like Senate, Academic Council and Syndicate. Members bring among other matters, the developmental needs of the affiliated colleges to the attention of the University.
- 2. It is the Director of the CDC of the University who brings the various Programmers/Schemes of the UGC for the intellectual and infrastructure development to the notice of colleges and exhorts them to apply for the same. Since the applications are processed by the CDC before forwarding the same to the UGC, the University gets an opportunity to assess the developmental needs of its affiliated colleges under 2(f) and 12 B of the UGC Act.
- 3. The Research portal set up the University supports the research guides and scholars of affiliated colleges in research administration
- 4.The Research Council of the University assists colleges to establish linkages with research institutions.
- 5.The finishing school of the University supports the colleges with soft skill training programmes.
- 6. The Academic Staff College of the University provides continuous training programmes to the teachers of Affiliated colleges and the University Departments and Principals of Affiliated Colleges.
- 7. The admissions to the UG and PG programmes of affiliated colleges have been centralized and done through the on-line mode by the University; it reduces the administrative procedure in the affiliated colleges.

Above all, periodical meetings are held by Vice-Chancellor, Pro-Vice Chancellor, Registrar, Director of College Development Council with the Principals of the affiliated institutions so as to understand the developmental needs and other issues of the affiliated institutions and directions are accordingly given to colleges. The affiliation committees' visits to these institutions in connection with the sanction of new courses or additional batches also give an opportunity to the University authorities to understand the developmental needs of the institutions.

## 6.2.10 Does the University have a vibrant College Development Council (CDC)/Board of College and the University Development (BCUD)? If yes, detail its structure, functions and achievements.

**Yes**, the University has a vibrant College Development Council (CDC)which looks after the developmental needs of its affiliated colleges and the Planning Department of the University looks after the development needs of its Teaching Departments.

The College Development Council of the University was constituted in the year 1978 with the primary objective of facilitating the intellectual and infrastructure development of affiliated colleges with the assistance of funding agencies especially the University Grants Commission. The Council is headed by a full time Director.

Dissemination of timely information regarding the various programmes/schemes to colleges and exhorting them to avail of the maximum assistance from UGC is an important task undertaken by the CDC. The selection process of the teachers to be recommended for the award of teacher fellowship under the Faculty Development Programme of the UGC is organized by the CDC wing. The processed applications are forwarded to the UGC with due attestation and recommendations of the University.

The works relating to autonomous status for Colleges and such institutions with Potential for Excellence have been carried out by the wing. Steps have also been taken to bring more affiliated colleges of the University under the umbrella of 2(f) and 12(B) status of the UGC. The CDC wing has conducted a workshop on XII Plan UGC Schemes and Programmes for the benefit of the Principals and Teachers in-charge of UGC affairs in affiliated colleges under 2(f) & 12 B of UGC Act 1956 on 15.03.2014. Dr.N.Gopukumar, deputy secretary, UGC Bangalore was the subject expert in the workshop.

Collection of data relating to student strength, composition of the social categories among students and staff of affiliated Colleges and Departments of the University on an annual basis is another task entrusted with the CDC. The processed data is then forwarded to institutions like UGC and MHRD. Recently, the section was engaged in assisting the programmeof All India Survey on Higher Education conducted by Ministry of Human Resources to prepare sound data base on Higher Education System in the country through the online mode. The comprehensive data base developed through the survey will be used for planning and policy making and also for determining the criteria for funding the institutions. The survey for the academic year 2010-2011,2011-12 and 2012-13has been completed and the process of uploading data for the year 2013-14 is in progress. As part of the exercise, two workshops have been conducted for the Nodal Officers in affiliated colleges for providing technical support in this regard. At the University level Cell with the Registrar as chairman has been constituted to monitor the survey.

The College Development Council is entrusted with the work relating to the monitoring of two academic programmes, i.e. P.G. and M.Phil. conducted by the affiliated Colleges.PG Monitoring Committee and M.Phil. Monitoring Committees are convened by the CDC periodically to deliberate on academic and examination issues with respect to the conduct of PG and M.Phil. programmes of affiliated colleges.

Programmes/Schemes concerned with SC/ST are also dealt by the CDC wing. Special Financial Assistance provided to SC/ST Research Scholars in affiliated colleges and Departments of theUniversity requires special mention. The UGC programme of Post-Doctoral Fellowship for SC/ST candidates is also being implemented. All funding of Seminars and

Workshops of affiliated Colleges are routed through CDC, the details of which are given in table 6.4.

Table 6.4: No. of Proposals forwarded by CDC and Amount Sanctioned

Year	No.of Seminars	No. of Workshops	No. of Conference	Total No. of Programmes	Amount Released(Rs.)
2009	45	11	6	62	11,26,350
2010	115	5	3	123	23,36,485
2011	51	9	2	62	18,67,500
2012	72	15	11	98	22,84,000
2013	108	28	11	147	33,71,250
Total	391	68	33	492	99,85,585

Source: Records of CDC

A look at table 6.3.shows the details of Seminars, Workshops and Conferences' proposals forwarded to the UGC and the amount released for the purpose. Over a period of 5 year period it could forward 492 proposals and released about Rs.1 core for various academic programmes of affiliated colleges. The University certainly has a vibrant CDC.

### **6.3** Faculty Empowerment Strategies

### 6.3.1. What efforts have been made to enhance the professional development of teaching and non-teaching staff?

The University has been taking every effort to enhance the professional development of teaching and non-teaching staff. It has established an HRD Cell for the purpose. Right from the selection process the University ensures that highly qualified people are recruited. The aim of the University is to make the faculty internationally competent. Newly recruited members of faculty are urged to undergo mandatory Orientation and Refresher courses through the Academic Staff College of the University. The newly recruited faculties were encouraged to avail "Research Starter Grants" from UGC. The University provides special casual leave to faculty who are invited to present their project proposal by central funding agencies while Assistant Professors are provided with study leave to pursue their Post Doctoral Research. Assistant Professors and Associate Professors can avail leave to undertake postdoctoral research. During the last four year period faculty members from various departments have availed Commonwealth fellowship (1 faculty member) and UGC post doctoral fellowship (2 faculty members). Travel support and on duty, leave and special casual leaves are provided to facilitate participation of Faculty members in International and National Conferences, Symposia, etc. Faculty members are encouraged to undergo summer training and attend specialized workshops for capacity building in their respective areas. The faculty members are encouraged to have research collaborations and sign MoUs with international and national universities/ other academic / research institutions which facilitate faculty exchanges and enable them to get advanced training in their research area. Orientation programmesare also

offered to new recruitees. Most of the teaching Departments and Centres offer training programmes to affiliated College Teachers. The University Department teachers are actively engaged in designing new courses and curriculum development.

Similarly, the non-teaching staff are trained in their respective fields through in-house programmes or from other organizations. In addition to Academic Staff College, the Management Department, IMK offers short-term training programme to non-teaching staff of the University. The Computer Centre, the University of Kerala also give necessary IT training to non-teaching staff. So also, the CMD and IMG, two external agencies provide training to our non-teaching staff. The non—teaching staff are also encouraged to have personal growth as they can pursue their higher education in the University as private candidates. They are supported to fully grow within their profession and they eventually achieve some of the top administrative and academic positions in the University. The necessary administrative training is also made available to higher officers like Finance Office, Joint Registrars, Deputy Registrars etc.

## 6.3.2. What is the outcome of the review of various appraisal methods used by the University? List the important decisions.

Faculty members are subjected to an appraisal of teaching abilities based on student feedback administered by the Internal Quality Assurance Cell (IQAC). The all round performance of the Faculty is periodically evaluated by external experts in connection with their Career Advancement Scheme (CAS). It is based on the recommendations of experts on published works of the teachers and their performance in the interview, promotions under the Career Advancement Scheme are either granted or denied. PBAS based API scores are considered in the process of recruitment and promotions of the Faculty members. The important decisions regarding appraisal methods used by the University are:

- 1. Curriculum is evaluated by Department Council
- 2. Research is monitored by Research Director
- 3. Consultancy is evaluated by Consultancy Cell
- 4. Utilisation of funds by Planning Department and CDC

## 6.3.3. What are the Welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefited from these schemes in the last four years? Give details.

The University provides various welfare schemes to both the teaching and non-teaching staff. These include house building and vehicle loan facilities. During the review period a good number of teaching and non teaching staffs had availed this facility (Table 6.3). The University provides Pension, Group Insurance, Family Benefit schemes, Family Welfare Schemes and all the teaching and non-teaching staff are covered under these schemes. Lump sum medical grants and soft loans are provided on a case to case basis to meet major surgery and hospitalization expenses of the teaching and non-teaching staff. The opportunities for professional development and welfare

measures for teachers have resulted worked favourably as teachers do not resign from the University prior to superannuation.

To ensure sound health condition for its staff, the University has established a Health Centre. The health facility is opened to all staff and its family members. A resident doctor is appointed in the health centre along with paramedical support and nursing assistance. Essential medicines have made available in the health centre. The staff members primarily use this facilities and the health centre provide suitable directions of availing advanced treatment if any required.

**Table 6.5:** No. of Beneficiaries and Amount paid under Medical Reimbursement Facility

Sl. No.	Item	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014	Average Per year
1	No. of Staff availed medical reimbursement	295	272	294	201	181	248.6 Staff
2	Amount sanctioned (Rs)	2181168	2281866	2650708	1034222	2060856	20,41,764

Source: Records of Ad.B III/2014,theUniversity of Kerala

**Table 6.6:** Various Staff Welfare Measures of the University

Sl. No.	Item	2010- 2011	2011- 2012	2012- 2013	2013- 2014	2013- 2014
1	No. of Staff availed house building loan	192	156	135	115	68
2	No. of Staff availed computer loan	10	5	4	3	1
3	No. of staff availed vehicle loan	83	34	18	12	7
4	No. of staff availed soft loans to meet surgery and hospitalization expenses	2	2	1	0	0

Source: Records of Ad.G./2014,the University of Kerala

The University employees have medical reimbursement facility and a good number of its staff members use this facility for diverse health care needs (Table 6. 5). During the period under review University has sanctioned on an average Rs. 20,41,764 to 248.6 staff members in a year. Percentage of staff availed this facility is around 21 (249 out of 1192)

In addition to this, the University supports services to its employees in various ways. There is adequate arrangement for local conveyance for its staffs and students. For the benefit of students and staff, the University provides canteen, cafeteria services in both the campuses. In the canteen and cafeteria, breakfast, lunch, snacks, tea, coffee are served at a subsidized rate. To take care for infants of staff members, Kerala the University Campus Association (KUCA) with the support of the University runs a crèche and babysitting facilities. For this purpose regular grant is allocated I n the budget

to Campus Association. A good number of staff members make use of this facility. Campus Association also run a nursery school (LKG & UKG) and the facility is open to the public also. Co-operative Credit Society, Cooperative Housing Society, Cooperative Store, Banking facility with ATM services in both the campuses etc. are the other initiatives of the University as welfare facilities to its staff members. In addition, Onam advance and Christmas advance are also given to its staff members by the University.

Welfare facilities are also extended to the family members of the staff in the form of subsidised transport, medical reimbursement and awards for talented children. In addition, the University's support is also given to Campus association, Cooperative Societies, Recreation Clubs, Employees Organisation, Arts and Sports Clubs and Film Society. More than 70 per cent of the employees avail most of the welfare facilities of the University.

## 6.3.4. What are the measures taken by the University for attracting and retaining the Eminent faculty?

The University widely perceived as a model employer, in the field of higher education, draws manifold applications for notified teaching positions. Notifications are given in almost all national dailies and websites of the University and in the University News issued by UGC so as to attract eminent faculty. Eminent faculty are retained in the University by offering Adjunct Professorship or Visiting Professorship or as Project coordinator or as SAP Coordinator. Conducive academic atmosphere including spacious accommodation is provided to retain faculty members which is testified by the fact that resignation rate is negligible.

## 6.3.5. Has University conducted a gender audit during the last four years? If yes, mention a few salient findings.

Yes, the Demography Department of theUniversity of Kerala continuously collects detain this regard. The gender composition in the University indicates women representation in all levels is about 50 per cent. (Table6.7). It is interesting to note that 65% of research scholars in the University Departments are women and is much higher than Scandinavian Universities. The girl students in P.G programmes were also very high (74%) (Table 6.8). In the 118 member Academic Council, women representation is 30 (25%), whereas among the 42 heads of the Departments in the University, 12 are women. Out of eleven School directors, four are women. The University with its age-old values of respect and due consideration for women did not have any serious women harassment complaints in the last four years. Nevertheless, the University has constituted a Redressal Cell to oversee complaints regarding any kind of harassment of women.

**Table 6.7:** Staff Gender Pattern in the University (%)

Gender	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014
Male staff	825	753	737	671	610
Wale staff	(51.40)	(51.22)	(51.18)	(51.27)	(51.17)
Female Staff	780	717	4703	4638	582
Female Staff	(48.60)	(48.78)	(48.82)	(48.73)	(48.83)
Total	1605	1470	1440	1309	1192
Total	(100)	(100)	(100)	(100)	(100)

Source: Finance Section, University of Kerala

**Table 6.8:** Students Gender patternintheUniversity during 2014 (%)

Category	Male	Female	Total
Research Scholars (%)	35	65	100
PG Students(%)	26	74	100
Total	100	100	

Source: Gender audit report, Dept. of Demography, the University of Kerala

## **6.3.6.** Does the University conduct any gender sensitization programmes for its faculty?

The University's Centre for Women Studies and Cell to combat Sexual Harassment Cell conduct various programmes throughout the year in the form of seminars, symposia, workshops, lectures of eminent scholars and activities or a combination of these in the field of gender issues. Faculty is the main target group of these sensitization programmes. Other than the faculty, students and local participants also participate in these programmes.

In addition to this, the Department of Commerce organised two fiveday residential workshop on Sensitization programme for women teachers of Kerala and Karnataka, one in 2010 and the other in 2011 with financial support of UGC. Another six-day residential workshop on Training of Trainers was also conducted for women the University and college teachers of Kerala and Karnataka. On an average 32 women teachers participated in all these programmes the details of which are depicted in table 6.9.

**Table 6.9:** Sensitivity Awareness & Motivation Programme

Sl.No.	Period	No. of Participants	Amounts spent (Rs.)	Average Amount spent per participant(Rs)
1	3/8/2010to 7/8/2010	33	3,99,999	12,121
12	10/10/2010 to 14/11/2011	32	4,90,500	15,328
3	10/9/2012 to 15/9/2012	32	7,49,529	23,423

Source: Department of Commerce

## 6.3.7. What is the impact of the University's Academic Staff College programmes in enhancing the competencies of the University faculty?

A backbone of the University's efforts towards faculty empowerment is the Academic Staff College. The Academic Staff College in the University of Kerala was started in 1987. The key concept underlined was to strengthen the crucial link between teacher motivation and quality of education, and had the broad objective to improve quality of teaching by providing ample opportunities for professional and career oriented development to teachers. UGC-Consortium for Educational Communication has provided Edusat facility to Academic Staff College. Many teachers from different Departments and the participants of Refresher Courses/Orientation Programmes use this facility (Table 6.10). Courses under the STAT (Stimulating Teachers through Advanced Training Programme) of the Govt. of Kerala are undertaken and a number of programmes have already been conducted in some renowned institutions like IIT, IISC, etc. The UGC- Academic Staff College has a vibrant exchange of resources with prestigious Institutions such as Institute of Management in Government, Centre for Development Studies, Rajeev Gandhi Centre for Bio-technology, Tropical Botanical Garden, VSSC, Indian Institute of Management, Indian Institute of Technology, Indian Institute of Science and other institutions in the field of Medicine, Information Technology, Science and Technology, Agriculture, Social Science, and Universities functioning at Central and State level. The UGC-ASC, the University of Kerala has recorded maximum 33 programmes including orientation refresher and short term training courses per year(Table 6.11.; Figure 6.4). The ASC conducts refresher programmes in diverse discipline incliningChemistry, Commerce & Management, Education, English Language and Modern Literature, Environmental Science, Hindi Language and Modern Literature, History, Human Rights, Library Science, Life Sciences, Malayalam Language and Modern Literature, Mathematics, Nano-Sciences, Women's Studies. Orientation programmes mainly focuses on IT and enable the newly recruited teachers to undertake teaching with modern tools. In addition to these ASC also conducts short-Term Course for Research guides in various disciplines, Disaster Management, Short-Term Course for Academic Administrators, Workshop for Principals of Colleges in Kerala, Short-Term Course in Soft Skill Development. Many teachers of Department are the coordinators of these programmes.

**Table 6. 10**. Enrolment details of Academic Staff College during 2009-2014

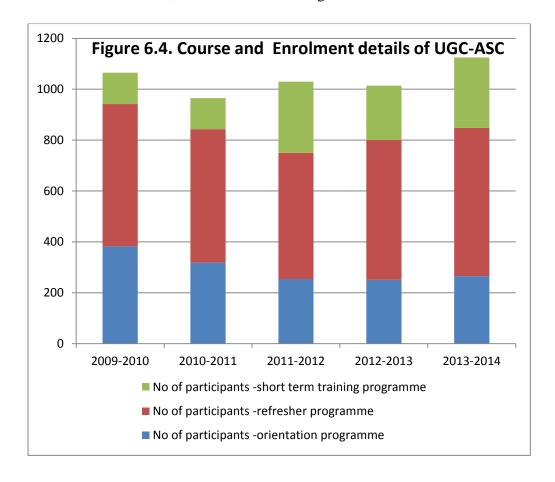
Sl. No.	Academic Year	No. of participants
1	2009 – 2010	1065
2	2010 – 2011	965
3	2011 – 2012	1030
3	2012 – 2013	1014
4	2013 – 2014	1125

Source: office records of Academic Staff College

Table 6.11: Details of Courses Conducted and Number of Participants

Course - Type	2009- 2010	2010- 2011	2011- 2012	2012- 2013	2013- 2014
No. of programmes conducted	33	31	29	27	34
No of participants -orientation programme	382	318	254	251	265
No of participants -refresher program	560	525	496	549	583
No of participants -short term training program	123	122	280	214	277

Source: Office records, Academic Staff College



In addition to these, the competency enhancement of the staff and students of the University is made through various other programmes. All departments have adequate number of computers and internet facilities. They are encouraged to get exposure to modern tools and software. The Computer Cell of the University is efficiently serving the faculty and students by inducting various online teaching programmes like Moodle. The non-teaching staff too frequently undergo computer training especially induction programme for automation of administration, finance and accounting.

### **6.4** Financial Management and Resource Mobilization

### 6.4.1. What is the institutional mechanism available to monitor the effective and efficient use of financial resources?

The University has an efficient mechanism to monitor the effective and efficient use of financial resources. Resources at the disposal of the University are cautiously budgeted based on the needs and requirements of the academic departments and the administration. The budget formulation of the University includes the following steps:

- 1. Compiling the requirements of the academic and administrative units,
- 2. Develop a draft budget through the Planning and Development wing,
- 3. Seek the recommendation of the Finance Committee of the University,
- 4. Placing the draft budget before the Syndicate for approval and
- 5. Finally getting it adopted by the Senate of the University.

The approved budget is taken care of by the Vice Chancellor and Registrar sees to its implementation. Every payment is subjected to a preaudit by audit section within the University. The Finance Department takes care of the utilisation at different stages and work reports are also asked at different levels.

### **6.4.2.** Does the University have a mechanism for internal and external audit? Give details

Yes, the University has a mechanism of both internal and external audit for the effective and efficient use of available financial resources of the University. The financial management of the University is controlled by the Finance Officer. The Finance Officer has full financial delegation to release funds to ensure smooth functioning of administrative, examination, academic wings and teaching department of the University. To ensure accountability of financial transactions, the University's budget is submitted to scrutiny by internal audit and external audit. Internal audit is being conducted by a team of the University officials. This Team is known as Out Audit Party (OAP).

The external audit is being conducted by;

Local Fund Audit Team of the Kerala State Government. A team comprises of approximately 18 officials permanently posted to conducts audit of transactions on a concurrent basis.

Supplementary audit is done by Accountant General on an annual basis. A team of 6 to 8 officials for a period of 45 days in a year is engaged in supplementary audit.

The audit of the accounts carried out by the Local Fund Audit department of the Government of Kerala as an External Agency independent

of the University administration to take a fair view and give independent opinion on the performance as well as financial transactions of the University in the form of Audit Report along with the Audited Annual Accounts for each financial year. The comments, views, deficiencies pointed out in the paras of Audit Report are deliberated elaborately in Accounts and Audit Committee meeting and suitable responses are drafted and placed before the Syndicate and Senate for their approval. The Audit Report after the approval of the Senate, is forwarded to Audit Department for consideration and acceptance. The Audit Reports contain paragraphs involving certain defects/deficiencies which call for immediate attention are given reply along with connected records to audit during Joint Sitting Conducted with Officials of the Audit Department periodically. Besides, the External Audit Agency conducts the Audit on the transactions of the University on post execution basis. The University itself has established an Internal Audit Section as part of the administration wing to conduct pre-audit, so as to improve better performance and safeguarding the overall interest in all the financial activities of the University. The major objective of the internal audit is to point out and amend the defects in the earlier stage of expenditure itself to avoid further recurrence.

## 6.4.3. Are the Institution's accounts audited regularly? Have there been any major audit objections, If so, how were they addressed?

Yes, the University's accounts are audited on a regular basis. The Local Fund audit and audit by Account General (AG, Kerala) have already been completed up to the F.Y.2012-13. There were no major irregularities reported. Other minor irregularities reported are being addressed for disposal /corrective actions. On the basis of proper reply, most of the objections were dropped by the office of the Accounts General (AG), Kerala and final audited accounts get approved. the University also adheres to guidelines or suggestions received from AG, Kerala.

## 6.4.4. Provide the audited Income and Expenditure statement of academic and administrative activities of the last four years.

As the University's accounts are on Cash basis only, Receipts and Payments account is prepared and hence the audited Receipts and Payments accounts during the last 5 years (2008-09 to 2012-13) are shown in appendices 6.4to 6.8). The amounts in the Receipts and Payments Account are categorised into four major categories such as Non-Plan Receipts and Expenditures, Plan Receipts and Expenditures, Special Plan Receipts and Expenditure and Debts and Deposits Received and Paid. The total receipts and payments from all these four heads are summarised and are shown in table 6.12 and fig. 6.5.

**Table.6.12:** Total Receipt and Total Payments (in crore)

Item	2008-09	2009-10	2010-11	2011-12	2012-13
Receipts	160.77	192.78	224.07	302.16	301.70
Payments	161.73	186.10	224.94	303.31	298.71

Source: Annual Accounts

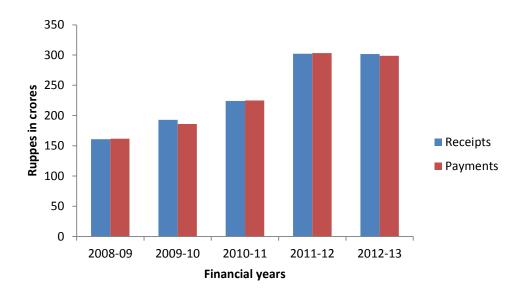


Fig.6.5: Total Receipts and Total Payments

Over the last five years the receipts of the University has almost doubled as the payments, but from the table 6.12 and fig. 6.5 it is clear that the University is not running deficit. The Non-Plan and Plan disaggregate are given in the table number 6.13 and 6.14.

Table 6.13: Non Plan Receipts and Expenditures (in crores)\*

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	102.62	129.71	136.47	172.11	193.90
Expenditures	102.97	114.46	127.56	176.19	191.47

<sup>\*</sup>Source: Annual Accounts

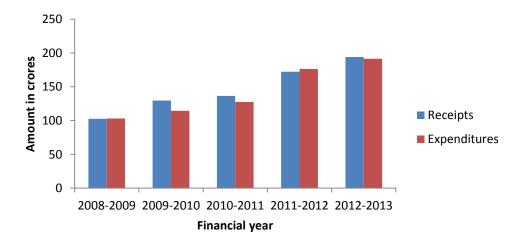


Fig. 6.6: Non-Plan Receipts and Non-Plan Expenditures

As illustrated in table 6.13 and fig.6.6, the receipts and expenditures under non plan head during the last five years showed a steady growth. Rs. 102.68 crore in 2008-09 increased to Rs. 193.90 crore in 2012-13, i.e. about 89 Per cent increase over a period of 5 years. Expenditure also showed a corresponding increase during the period, i.e. about 86 per cent increase.

The Plan Receipts and Expenditure of the University during the same period is depicted in table 6.14 and fig.6.7.

**Table6.14**: Plan Receipts and Expenditures (in crores)

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	9.70	10.53	25.17	13.60	28.34
Expenditures	7.52	8.58	6.27	4.72	12.26

\*Source: Annual Accounts

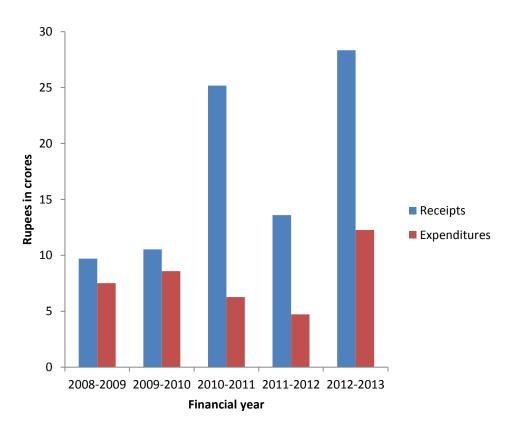


Fig.6.7: Plan Receipts and Plan Expenditures

During the review period, i.e. over a period of 5 years, the plan fund received noticed a 3 fold increase. The expenditure also increased from Rs.7.52 crore in 2008-09 to Rs.12.26 in 2012-13, an increase of about 63 percent. This reduced expenditure rate as compared to receipts is due to the procedural delay associated with the audit of long term projects of more than one year. The increased rate of receipt and expenditures of plan amount illustrated in table 6.14 and fig.6.7 indicates the capacity of the University to

mobilize funds from the government and to implement various developmental activities.

The Special Funds receipts and expenditure during the last 5 year period is shown in table 6.15 and fig.6.8.

**Table 6.15:** Special Funds Receipts and Expenditures (in crores)

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	11.19	14.33	11.99	13.85	17.41
Expenditures	10.10	14.45	9.94	14.50	16.42

Source: Annual Accounts

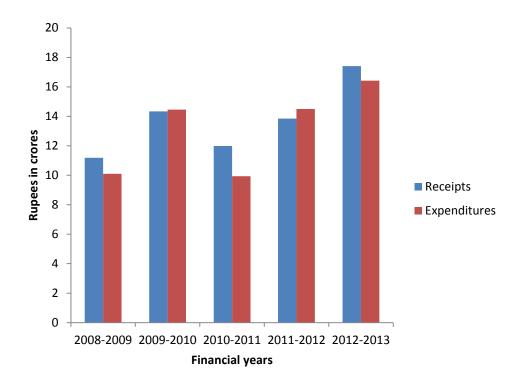


Fig. 6.8: Special Funds Receipts and Expenditures

During the period, various departments such as the planning and development wing, financial wing, administrative wing etc. functioned in coordination which resulted in the mobilization of special funds for specific developmental programmes. Growth of this fund during the five year period is nearly 150%. A high utilisation rate was also noticed, i.e. about 90% in almost all years. In 2008-09 the expenditure exceeded the receipts during the year. All these indicate that the University is more particular not only in mobilising the funds but also its utilisation which is shown in table 6.15 and fig.6.8.

The details of receipts and expenditure on account of Debts, Deposits etc. are shown in table 6.16 and fig. 6.7.

**Table 6.16**: Debts and Deposits Received and Paid (in crore)

Particulars	2008- 2009	2009- 2010	2010- 2011	2011- 2012	2012- 2013
Receipts	37.25	38.21	50.43	102.61	62.05
Payments	161.73	48.62	79.17	107.89	78.56

Source: Annual Accounts

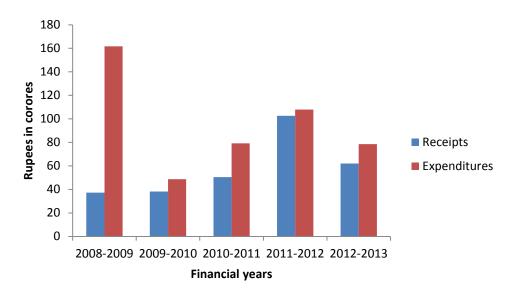


Figure 6.7. Debts and Deposits Received and Paid (in crore)

The debt repayments are higher than the receipts in all years under review. This is a clear indication of the financial strength of the University as it could discharge its obligations without depending further debts. The details are depicted in table 6.16.and fig.6.7.

To have a better understanding about the financial strength of the University the major items of receipts and expenditure during the period under review are shown in table 6.17 and 6.18.

The University's receipts from govt. in the form of grants has doubled. The general receipts head has shot up to 188 percent, which is in tandem to the receipt from examination fees. Whereas the fees from certificate and evaluation increased to 148 percent other receipts from the departments as fees and other receipt remain constant. School of Distance Education has shown a 229 percent increase in its receipt over the last five years. The hostel fee remains almost the same throughout the years. This shows that the University makes the accommodation cheaper to any student who seeks education. This is almost same with the library fee increase. Publication receipt nearly doubled but the fee from self-financing courses increased marginally. In a nutshell, the overall receipt of the University increased to 178 percent over the last five years. The details of Expenditure are shown in table 6.18.

**Table 6.17:** Major items of Receipts

Receipts	2008-09	2009-10	2010-11	2011-12	2012-13
Grants from Govt. of Kerala	5885.00	7291.31	7445.00	8934.00	11099.00
General Receipts	819.40	976.68	953.43	986.36	1542.08
Fee for certificate revaluation	409.25	493.86	705.84	1412.12	604.83
Examination fees	960.77	1473.22	1891.23	2024.96	1801.73
Departments- fees & other receipts	202.20	398.71	503.85	494.13	210.82
Receipts from IDE	363.32	438.47	450.65	514.04	832.25
Publications fees	16.34	23.43	44.94	35.48	30.52
Hostel fees	15.04	16.20	16.87	15.30	15.59
Self-Financing courses fee	1004.65	1008.11	583.01	793.77	1122.73
Library	9.06	9.20	11.94	12.85	11.89
Miscellaneous	225.91	181.34	168.04	201.54	348.39
TOTAL	9910.94	12310.54	12774.80	15379.55	17619.83

Source: Annual Accounts

As shown in table 6.15, the salary of Teaching and Non-Teaching staff remains the largest portion of the University expenditure. Pension constitutes the second largest. However, in the last five year the salary increased only 37 percent from what the University was paying in 2008-09, whereas the pension has doubled over these five years. The library expenditure showed an increase by 85%, Student facilities expenditure increased to 217 per cent and Fellowships to 143 per cent. All these are positive signals of academic commitment and growth of the University. The expenditure related to works increased to 264 per cent which further shows the increased investment for infrastructural development of the University. All these increased the total expenditure of the University but are positive signals in the growth and development of the University.

Table 6.18: Major items of Payments

Payments	2008-09	2009-10	2010-11	2011-12	2012-13
Salary–Teaching & Non-Teaching	5107.16	5080.01	5862.63	7399.77	6983.41
Examination Charges	694.48	828.51	940.74	1139.54	1311.82
Library	43.87	52.66	53.14	67.40	81.24
Publications	8.41	27.66	16.74	2.98	4.27
Student facilities	72.53	80.35	94.10	114.80	157.45
Fellowships	216.32	226.38	214.35	288.80	309.61
Works	84.90	187.45	90.07	157.59	223.85
Pension	3012.85	3302.80	3196.84	6346.70	6080.01
Pay of Guest/Contract Employees	335.12	409.92	532.11	771.08	1531.40
Electricity Charges	118.26	106.66	126.54	128.23	160.63
Water Charges	2.19	4.10	224.36	220.45	111.69
Other contingent charges	424.41	532.46	546.18	981.96	739.99
TOTAL	10120.48	10838.96	11897.81	17619.29	17695.36

Source: Annual Accounts

### 6.4.5. Narrate the efforts taken by the University for Resource Mobilisation

The University of Kerala is a State University predominantly funded by Government of Kerala. Still, the University of Kerala is very much aware of its increasing financial needs as also limitation of supports from the State government. Keeping this in mind, the University takes every effort to generate funds through various schemes or programmes. Apart from grants from the state government and Plan funds from the UGC, the University during the last five years, has significantly intensified its efforts to mobilize resources from faculty consultancies, endowments, and research grants of the faculty for their projects from different funding agencies. Being a public funded institution, the higher education programmes offered by the University are significantly subsidized to cater to students of all strata of the society, especially the socio-economically backward students and SC/ST students. Yet, the University is taking efforts to revise fees structure on a periodical basis.

As a reward to the University's commendable efforts in resource mobilization, a grant of Rs. 7.76 crore and 6.304 crore (Total1.4.1 crore)from UGC under general development assistance scheme under XI and XII plan respectively was obtained by the University the details of which are illustrated in Table 6.19. A perspective analysis of the University's budget for the last five years illustrates how the University has moved ahead with regard to resource mobilization and judicious use of the same to maximize the benefits to the University.

The resources for the University come through non-plan receipts by students fees and support from the State government towards the salary component of its employees of all categories, planned grants from national and international funding agencies, research project grants generated by the faculty from funding agencies, resources mobilized through industry collaborations and consultancies, interest from endowments, and income from the Institute of Distance Education especially through its Learners Support Centres, Income from Self Financing Colleges, Extension Centres for B.Ed., UITs, Centralised Allotment Fee for UG and PG admission etc.

**Table 6.19:** Grant-in-Aid under General Development Assistance Scheme of UGC

Plan Period	Year	Amount Rs. In lakh
11	2007	80.06
11	2008	240.22
11	2009	180.16
11	2010	Nil
11	2011	Nil
11	2012	276.24
11 <sup>th</sup> Total	2007-2012	776.68
12	2013	250.22
12	2014	380.18
12 <sup>th</sup> Plan Total	2013-2014	630.40
11 <sup>th</sup> and 12 <sup>th</sup> Plan Total	2007-2014	1407.08

Source: DPD, the University of Kerala

## 6.4.6. Is there any provision for the University to create a corpus fund? If yes, give details.

As a State University funded by the Non-Plan Grants of Government of Kerala for its salary and Pension expenses, creation of a corpus fund is not feasible for the time being. However, Department Development Fund (DDF) is available to meet expenses for the development of basic infrastructures and support academic activities of the Department.

#### 6.5. Internal Quality Assurance System (IQAC)

The IQAC chaired by the Vice Chancellor has a steering committee consisting of the Director, Registrar, Director of the College Development Council, members of syndicate, eight senior teachers and three experts from the industry/ Local community, representatives from stakeholders, and about

eleven other members to control the proceedings related to the teaching and research activities of the University so as to improve its quality.

It implements internal quality checks by introducing the Academic Audit system for the University departments, affiliated colleges and approved research institutes and R & D institutions. The academic audit is conceived of as an educational exercise of accountability aimed to improve the performance of teachers, students, administrative staff and the whole institution in a holistic manner. It supports the present academic standards of the University. The internal quality checks include stratified proforma based information on students feedback of teaching – learning process, self-appraisal by teachers, grievance redressal for all stakeholders of the University system, strict adherence to UGC norms in all academic functions of the University, administrative transparency by providing information to the needy as per Right to Information Act.

**6.5.1.** Does the University conduct an academic audit of its Departments? Give details

Yes, the University has opened a separate cell known as the IQAC with the intention of ensuring quality in the University Departments. Accordingly, under the leadership of the Pro Vice Chancellor, the steering committee members visit all the Teaching Departments andthe University centres once in a year and collect details from HODs, teachers and students as part of its academic audit. Further it issues detailed guidelines for identifying the best Teaching Department in the University (Guidelines – appendix-6.9).

**6.5.2.** Based on the recommendations the Academic audit, what specific measures have been taken by the University to improve teaching, learning and evaluation?

The University has decided to recognise the services of the performing Departments in the University and for that purpose applications are received for assessment of the Department seeks inputs on the above criteria as per the format attached. The University constitutes an external expert team consisting of three Senior Professors for Evaluation of scoring scheme of the guidelines for award of the Best Department of the University. The members nominated are:

- 1. Dr.Jancy James, Former Vice-Chancellor, Central University of Kerala, Kasargod, Kerala.
- 2. Dr.ChengduVenugopal, Professor, M.G.University, Kottayam
- 3. Dr.K.K.Aravindakshan, Professor, University of Calicut

Moreover, more financial powers are given to HODs. HOD's spending limit without seeking permission from higher authorities has increased from Rs.10,000 to Rs.15,000.

**6.5.3.** Is there a central body within the University to continuously review the teaching learning process/give details of its structure, methodologies of operation and outcome?

Yes, the Academic Council under the chairmanship of the Vice

Chancellor is the Central body which reviews, introduces and approves new ordinances or any changes to existing ones that govern the structure and operational aspects of various degree, diploma and certificate courses offered by the teaching Departments and affiliated colleges.

The Academic Council is responsible for granting approval to the syllabus of any course conducted by the University Departments and affiliated Colleges.

The syllabus recommended by the Board of Studies (BOS) in each discipline is presented to the Faculty by the concerned Chairman of the BOS who clarifies and justifies a syllabus with regard to its quality, relevance and standard. Upon observing any problems related to the teaching and learning process and evaluation, the Academic Council on its own initiative can make suitable recommendations to the concerned Board of Studies. The Academic Council and the Faculty are specifically meant for looking after the teaching learning process in the University. The Subject wise Board of Studies monitor the syllabus. The chairman of the Board of Studies and Dean of the faculty monitors the delivery. The examiners' list is finally approved by the Academic Council.

In addition, there is a Credit and Semester System (CSS) office, which acts as a coordinating body of all the University departments to continuously review the teaching and learning activities of its Departments that constantly keep a watch on the entire process of teaching learning in the University Departments and its Centres. The Research Standing Council scrutinizes the research proposals forwarded by the Department Councils. Likewise, different bodies within the University ensure that quality is maintained in the teaching learning process.

The IQAC was reconstituted in November 2012 and since then it acts as a central body within the University to continuously review the teaching learning process. The major activities of IQAC are reproduced here:

#### **Identification of best teaching Departments**

The best working Departments are to be identified. Orders have already been issued(appendix-6.1).

Collecting Students' feedback on Teachers. After collecting data the report is sent back to the corresponding Departments.

Linking of the University Research Council with research funding agencies.

Periodical release of the IQAC newsletter to inform the Departments of its activities, new initiatives and progress of the other ongoing schemes

Formation of Intellectual property Management cell

## **6.5.4.** How has IQAC contributed to institutionalizing quality assurance strategies and processes?

IQAC has contributed a lot in institutionalising quality assurance strategies of the University through the following steps:

Student evaluation of teachers

Infrastructure support

Seminars and Discussions

Strengthening of Confidential Assessment

Strengthening of Research Council

Compiling of AQAR

Drafting and dissemination of newsletter

Headship rotation in teaching Departments

Creation of new research centres.

Conversion of Research Centres into new Academic Departments like Nanoscience and Bioinformatics

New research centres have been created within a single Department also

Finishing school -three batches have passed out.

Soft skill training. A new proposal has also been submitted.

Formation of Placement Cell.

In addition to frequent seminars and workshops, IQAC has issued its newsletter KUIQ NEWS and is widely circulated among its teachers in the University Departments and affiliated Colleges. This inculcates the spirit of total quality among teachers.

**6.5.5.** How many decisions of the IQAC have been placed before the statutory authorities of the University for Implementation?

The major decisions of IQAC during 2013 are:

Seminar on best practices on quality education

Students Feed back

Department wise assessment

Centralised Purchases for the Departments

IOAC office

Newsletter publication

Workshop

Scrap disposal

Vision Statement for each Department and Research Centres

Comprehensive Work Study for administrative reforms

Planning Board

Research Council

After getting administrative sanctions from the statutory authorities, all the decisions of 2013 are under implementation in the year 2014 and in addition three more major decisions were taken in 2014. They are:

- 1.Letter of Intent filing
- 2. Self Study Report compilation
- 3. Administrative set up for quality assessment
- **6.5.6.** Does IQAC have external members on its committees? If so mention any significant contribution made by such members.

Yes, three external members, two from industry and one from the State Planning Board are included in the IQAC of our University. They are;

- 1.Dr.Babu Thomas, Sr. Vice President, Hindustan Latex Ltd,
- 2.Mr.Najeeb, CEO and MD, Air Travel Enterprises Ltd. and
- 3. Mr. Vijayaraghavan, Member, State Planning Board

The first two members help the University in getting the inputs from industry and thereby the University can modernize its curriculum and strengthen the research based on the needs of the industry. Moreover, it speeds up the process of Industry-University interaction for mutual benefit. The member from the State Planning Board enables the University in understanding the needs of the society and thus be more responsible to the society. Representation from other stakeholders such as NGO, Social Worker and Student representative are also ensured for its smooth functioning.

**6.5.7.** Has IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of the society?

The University of Kerala has established Dr.B.R.Ambedkar Chair to look after the needs of the students from disadvantaged sections of the society. IQAC has requested the chair to submit a proposal to make a study on the incremental growth of students in its University Teaching Departments, Centres and its affiliated Colleges.

**6.5.8.** What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres etc.

The policy of Annual Academic Audit by external experts to review the academic programmes of the Teaching Departments, periodical meetings of faculty with VC, PVC, Department Council meetings and Committees such as Standing Council of Syndicate, Research Council etc. and Committees periodically set up to review the functioning of the administrative and academic Departments will go a long way in reviewing the teaching, research, extension and consultation services of the University. The conduct of examinations and publication of results are also under thorough review. Reports of these committees are discussed in the Syndicate or Syndicate subcommittees and suggestions are implemented accordingly.

Thus, the Syndicate, Senate, Academic Council, Board of Faculties, Board of Studies and Department Council through their meetings co-ordinate and exercise general supervision over the academic, administrative and financial policies of the University and keep under review the standard of

Learning and Research in the University. Strengthening the review system, the University has announced Annul Award for the best teaching department in the University and best thesis in the University. A Research Council is also functioning in the University to review the performance of its research Scholars and thereby ensure quality of research.

**6.5.9** Any other information regarding Governess, leadership and Management which University would like to include:

The University of Kerala was ranked 19<sup>th</sup> among the top universities in India rated by India Today in 2013. Participatory and transparent governance, proactive and progressive leadership, timely decisions and speedy implementation strategies are the focus areas of the University. Monitoring Committees review the performance of various systems like Academic, Examination, Planning, HRD Cell, Administration, Library, Financial Management, the University Departments and Centres, Affiliated Colleges, Research and Publications, Academic-Industry interaction etc. Meetings of different stakeholders and decision-making bodies are frequently held and their suggestions are incorporated in the governance of the University. A continuous feedback system is also there in the University to correct the pitfalls if any, and thereby achieves the projected goals of the University and to serve the society at large.

#### List of Appendices

Annexure I: Award for Research Projects undertaken by the

Teachers of the University of Kerala

Annexure II: Application for Awards for Research Projects

2013-2014

Annexure III: Award for Research Projects undertaken by the

Teachers of the University Departments/Centres

Appendix IV: Committee for Academic Audit

Appendix V to IX: Receipts and Payments Account for the Years

2009-2013

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# CRITERION VII INNOVATIONS & BEST PRACTICES

#### INNOVATION AND BEST PRACTICES

#### 7.0 INTRODUCTION

The University of Kerala has a tradition of democratic decision making and participatory management involving teachers, administrative staff and students. The University is the first in the country to give a representation for students in its most powerful body, the syndicate, in 1974. The democratic and participative management is considered by the University as one of its strength and an ideal platform on which innovative and healthy practices can evolve. The innovative and healthy practices that are recorded in this section are thus self-motivated and naturally emerge in the eco-system of the University. There is no organized effort to micro manage innovation and healthy practices by the university. The University encourages and promotes innovations and healthy practices for all to adopt. For instance, the best department is given an award for its healthy practices. This, in turn, becomes a visible model for emulation. The criteria involve various best practices and the outcome of the award is also a publication which documents the best practices.

In the subsequent sections, various innovations and healthy practices under the University of Kerala are grouped under the following heads.

Green Activities, Use of Technology, Community Outreach, Student Empowerment, Academic Innovations, Internationalization, Miscellaneous

#### **Environment Consciousness**

#### 7.1 GREEN ACTIVITIES

#### 7.1.1 Green charter for the University

A green charter for activities of the University is being drawn up (Appendix 7A). Check dam and rain water harvesting in Kariavattom campus has been announced in the 2014-15 budget and the NSS unit is implementing it. An energy audit of the University has been conducted.

#### 7.1.2 E-waste Management

The University has centrally collected all the electronic waste and is currently in the process of considering a scientific management of such electronic waste. The departments are prevented from handling the electronic waste in an ad-hoc manner.

#### 7.1.3 BhoomithraSena

Bhoomithrasena Club aims to strengthen the commitments of students towards environmental practice. Established by the Environment Management Agency, Kerala this is operational in two departments. The activities of the club focus sensitizing society about environmental concerns. The members of the club constantly clear the surroundings and have planted a number of trees. On the centenary of International Women's Day (March 8<sup>th</sup> 2012) a human chain was formed at the campus gate facing National Highway with the view to safeguard earth and women. A film 'The Green' was shown in the campus in connection with the environmental Day in 2011. The club conducted a novel activity in the campus namely "Mazhamooli" (the rain making instrument) in connection with the environmental day 2012. This was

inaugurated by famous environmental activist and poet Sugathakumari. The play 'Zoo Story' was also staged the same day which was appreciated by the viewers. The campus was the venue for the Bamboo-music instrument which attracted a large number of students. Every year an essay competition is conducted on the topics of Ecology and Environment. Two members of club, Ms. Indulekshmi and Ms. Najiya Nazeer, made an environmental documentary film: Prakruthi-Maram-(Nature-Tree).

#### 7.1.4 MaraOnam/ Tree Planting

Select trees have been planted in Kariavattom campus aiming to make the place livable even in the absence of traditional sources of energy. The planting of trees was done in a novel way that emphasized an enabling narrative of sustenance. This is recognized as an annual rite and termed as "Mara Onam" in which Onakkodi (brand new clothes marking Onam) are tied around the trees and offerings made of rice, lentils and payasam. Every year trees are planted is done with the involvement of department faculty, students and student union.

#### 7.1.5 Thulaseevanam

The Department of Botany has taken up a number of activities related to preserving plant diversity in the campus. One of this is the seven year old Thulasi Herbal park, in which a number of herbal plants have been preserved. The Department has also started a HortusMalabaricus garden in which all the plant species which are mentioned in the famous work *HortusMalabaricus* are planted. The department also has a very valuable herbarium with 7000 species. A Horticulture Centre in the Campus is also being contemplated.

#### 7.1.6 Thanalidam

This has been a joint venture of the Staff Club and the Alumni Association of the School of Distance Education. Saplings of trees native to Kerala were collected over a few months preceding the monsoon in 2013 and were planted in the SDE compound on 5 June recognized widely as World Environment Day. This programme is special as it has multiple aims – to bring in a unique greenery to the premises of the new SDE building and to conserve rare trees like *karimaram*, *aanathondi* and *samudrakai*. It also gives a message regarding the individual's obligation towards conservation, and to have a rich collection of select species in the University's Palayam campus. Another highlight is that the staff members have been taking care of the trees over the last one year and they are all growing well.

#### 7.1.7 River/Lake Monitoring Programme and Fish Census

The Department of Aquatic Biology and Fisheries co-ordinated the river monitoring programme of Kerala State Biodiversity Board, which envisaged assessing the health of the riverine ecosystems of Kerala through fish population studies and pesticide assessment. The first participatory fish census was done for Vellayani Lake, the second largest freshwater lake in Kerala for assessing the fish stocks.

#### 7.1.8 Elective in Literature & Ecology/Green Studies

The Institute of English offers an Elective in Literature and Ecology, which focuses on revaluation of nature-oriented literature from ego-consciousness to eco-consciousness, and a study of Eco criticism as a literary

theory based on Eco critical paradigms. This has led to students pursuing research in this area in our own university and in other institutions of higher learning.

#### 7.1.9 Activities by Centre for Gandhian Studies

The Centre for Gandhian Studies promotes eco-friendly products and practices such as use of paper carry bags and provides training in producing them.

#### **INNOVATIONS**

#### 7.2 USE OF TECHNOLOGY

The University has a history of using computing technology which dates back to the 1950s when an electromechanical computer named 'Arithma' was installed in the Department of Statistics of the university and was used for research purposes during those days. In 1977 a computer centre was been established with a TDC-316 computer. Gradually, from data processing for research the role of computers changed to e-governance.

#### **7.2.1** Website

In 1997 the university set up a website which underwent major upgradation in 2001 and later in 2009. Currently a Joomla-based website is in existence which can be modified by all the stakeholders. Around 250 persons are authorized to change the respective pages of the website ensuring that the updation of the website is decentralized. The next revamping started in 2014 has been initiated and is going on.

#### 7.2.2 Communication

In January 1994, a facility for e-mail was established through ERNET. At present, the Computer Centre designed and implemented an intranet in the University campus for use by different wings. The works implementing Wi-Fi network for both campuses and a modern Data Centre at Palayam are in progress and these will be commissioned soon. A video-conferencing facility between the vice chancellor's office and Kariavattom campus was also established in 2010.

#### 7.2.3 Book Face Library Software

A unique software was conceived in the style of Facebook, the hangout of the youth. Here readers can sign up and become friends of books, like/dislike them, comment on them and form group of readers etc., very much like in social networking. This software is perhaps the first reader-centric library software. It represents the latest phase in transformation of libraries from book-centric to librarian centric to service-centric and finally to reader-centric philosophy. It's new-generation look and feel, has attracted the young readers to the library in an unprecedented way. Book Face was featured in the 2013 March issue of the Communications of Computer Society of India.

#### 7.2.4 Using SMS to Communicate

With the advent of mobile phones the University has started to use SMS for various purposes. The Finance Department of the University has been using SMS alerts to staff members for information related to salary, taxes, and statements/documents to be submitted from time to time. This has proved to be a swift, sure and highly personalized way of delivering

information, while effecting considerable savings on stationery. Since 2013 the School of Distance Education has begun using SMS alerts to keep its thousands of students informed about contact classes, distribution of study material and deadlines related to fees. This is supported by general information published in dailies and through postings in the SDE website, which too are noticeably paper-free. In addition to saving labour, stationery and postage costs, this is a meaningful step towards conserving resources.

#### 7.2.5 Digital Archiving

The University has taken forward digital archiving in a big way. The most valuable collection of heritage manuscripts at the Oriental Research Institute and Manuscript Library are being digitized and being made available for researchers in the convenient searchable form. The rare collection of books in the Kerala Studies section in the University library of Kerala have also being digitized and are available in a Google like search engine. Both the digital archiving projects are continuing and are an important source for scholars. In addition to the above, digitalization of records is also going on.

#### 7.2.6 E-Governance

E-governance in the University of Kerala began with development of software for the management of demand drafts. Computerization of Cash Counters followed and the University makes use of this software even after 14 years. Software for B.Ed. admissions and computerization of tabulation works followed. By 2001, a system for web enabled exam transactions was established for 165 Colleges (on-line enrolment, on-line registration, on-line hall ticket generation, on-line nominal role generation and on-line exam attendance reporting, etc.). The University of Kerala received e-governance awards during 2009 from Government of Kerala on 08/12/09. The key e-governance initiatives include:

- **Online Admissions:** An online single-window system was established for PG admission in 2009 and UG admission in 2012.
- **Research Portal :**For on-line PG admission students can apply for registration and track their status of evaluation.
- **Placement Portal of the University:** For online job placement of the students of the University. This is a site with the following link: <a href="http://placement.keralauniversity.ac.in/">http://placement.keralauniversity.ac.in/</a>.
- **Document Verification Portal:** For students as well as employers for verification of documents the site <a href="http://www.ku.directverify.in">http://www.ku.directverify.in</a> is available. The University degree certificate comes with Hologram and a number of security features.
- **Electronic Observation:** There is CCTV facility interconnected by OFC networking system with observation point at security officer's desk. The video is recorded for future reference.
- Campus Networking: All administrative and academic departments in the University's are interconnected by OFC with data, Internet and video channels.

- **Teachers Index Database:** There is also a single window system that gives an online teacher index database which helps the valuation and question paper setting process.
- Online Question paper: To automate question paper preparation and distribution to the examination Centre the principals of examination Centre can download the question papers at the scheduled time for conducting exam.
- Online Question Bank: The University has already started a platform for online question bank facility for students and staff.
- University IT policy: The University has a comprehensive IT policy with regard to IT service management, information security, network security, risk management, software asset management, open source resources, green computing, etc.

#### 7.2.7 Smart Class Rooms

The innovations introduce in the last four years include

- Best Department Award based on curricular aspects, teaching and learning, research and consultancy, publications and outreach services.
- Best Thesis Award
- Establishment of Finishing School
- Formation of Equal Opportunity Cell
- Formation of Research Council

#### Other Best practices

#### 7.3 COMMUNITY OUTREACH

#### 7.3.1 Film Festivals & Drama Festivals

The Institute of English has a very vibrant film club which functions not only as a mode of extra-curricular activity for the students but seeks to study the rich field of popular culture in Kerala and India. In association with the Centre for Cultural Studies a number of programmes have been hosted. There are regular film screenings and discussions that have curricular dimensions in helping students study how narratives function in film as in literature. A Campus Film Festival was also held at an all Kerala level. The University Union has also organized Drama festivals.

#### 7.3.2 Marine Life Web Portal

An interdisciplinary project of the Department of Aquatic Biology and Fisheries and the Department of Computational Biology and Bioinformatics supported by Kerala State Council for Science, Technology and Environment launched a web portal <a href="http://keralamarinelife.in/">http://keralamarinelife.in/</a> which contains information on marine biodiversity records from India.

#### 7.3.3 Thalaakshara

The Oriental Research Institute and Manuscripts Library which has a unique collection of over 60,000 manuscripts (one of the largest in South Asia) has been holding exhibitions to share knowledge about these

manuscripts with the general public. This exhibition titled 'Thalaakshara'was held for twomonths and a large number of students from schools and general public made use of this opportunity to acquire knowledge about the manuscripts.

#### 7.3.4 Acquiring Manuscripts & Free Service to needy

The Oriental Research Institute and Manuscripts Library recognise the fact the many families have in their possession very rare manuscripts. The Institute has reached out to these families or persons and pursued them to contribute the manuscripts to the library. In the event of the persons or families who are not ready to part with the manuscripts in their positions, the manuscripts library offers free service for proper preservation of the same.

#### 7.3.5 Popular Science Articles

Many popular science articles written by students of Department of Computational Biology & Bioinformatics in popular technical magazines were compiled and published as 'Corona', in 2013.

#### 7.3.6 Programmes for School Children/Children of Campus Community

Departments collectively conduct extension activities for school students and common public. Amusing aspects of science, crafts, games and green activities are incorporated in the extension programmes. Experienced science communicators are also invited to conduct the classes apart from the faculties and research scholars from the departments. The following are some of the outreach programmes organised.

- Innovation in Science Pursuit for Inspired Research (INSPIRE) is a unique programme initiated by the Department of Science and Technology, Govt. of India to attract young talent towards advanced studies and research in basic sciences. From the year 2011 onwards the University organizes Summer Camps for about 100 students selected from the top-scoring SSLC students from the State. Leading scientists in India interacted with the students in the camp.
- 'Inculcate' is a Science Propagation Programme of Kerala State Science & Technology Museum, organized through the Universities in Kerala. The objective is to catch potential scientists at a young age and nurture their inborn talents for scientific learning and research. The University organises Residential Training Programmes for the students selected from the Government and Aided Schools of India. The selected students were attached to the faculty who also serve as mentors for the students.
- Balasastra Congress of Kerala Sastra Sahitya Parishad was organized in 2010 for about 100 selected students and they were attached with the Departments of Aquatic Biology and Fisheries, Botany, Biochemistry, Biotechnology and Environmental Sciences.
- One Day/ Fun day: A one day event to foster creativity and science in school children continues to be organized every May since 2008.

- Visits: Faculty and research scholars visit and deliver popular science talks in schools, colleges and in institutions like National Institute for Speech& Hearing (NISH), Cheshire Home etc.
- Schools: When the Departments hosted Nobel Laureates, interaction with the public and school children was arranged.

#### 7.3.7 Legal Awareness Programme

The Department of Law arranges 24-hour toll -free legal advice and awareness for general public, (Soujanya Niyama Sahaya Vedi), in collaboration with the NSS Unit.

#### 7.3.8 Heritage Walk

The Department of History leads heritage walks to trigger interest in local history.

#### **7.3.9** Video CD

A video CD introducing the subject of Bio-informaticsaimed at students who want to study the subject in a distance education mode was prepared by the Department of Bio informatics in 2012.

#### 7.3.10 E-journal Publishing

The Department of Journalism and Communication has been publishing its student journals in the e-journal format.

The Practice Journals of Department of Journalism and Communication students in English and Malayalam (UnivVoice and Kalari) are available online.

Every year the Department of Communication and Journalism produces news documentaries. In 2013, two documentaries fetched National Awards. These documentaries are now available on Youtube.

#### 7.3.11 Action on Social Issues

In the early nineties, when HIV/AIDS developed into a pandemic, Futures Studies Department carried out a number of research projects on the same issue associating with different agencies including doctors working in the area and was internationally acclaimed. One such work 'Anticipatory crisis management of HIV/AIDS' has caught wide national/international attention. The department carried out an epidemiological study on ChickunGunya associating with National Institute of Virology, Pune. Research was undertakenon stress management of IT workers as well as pain mitigating aspects of cancer patients.

The Department of Aquatic Biology and Fisheries organized a workshop titled MeeninuOru Peru" to provide Malayalam names for the freshwater fishes of Kerala and published the results. This is the first initiative of this kind in India.

#### 7.3.12 Exhibitions

During the archaeological excavations and ethnographic researches conducted by the Department of Archaeology in various parts of India, informal and formal lectures are delivered in the field for the visitors especially school and college students, educated and uneducated public etc.

These talks immensely helped to create heritage consciousness among the public.

#### Other information

#### 7.4 STUDENT EMPOWERMENT

#### 7.4.1 Soft Skill Acquisition Club

Students Skill Acquisition Club (SSAC) was established in each Department with the following objectives:

- 1. Developing soft skills among students
- 2. Enhancing learning capabilities, organizational skills and promoting team work
- 3. Enhancing general awareness among students and supporting them in the choice of a career path.
- 4. Imparting leadership skills

#### 7.4.2 Gender Audit

A gender audit of the University was done in 2014 and it revealed that perhaps our University ranks at the top on a global basis in terms of gender balance (it is the Nordic countries that claim highest figures which are less than of Kerala University in many cases). There are about 70% of women students in UG, PG and MPhil, about 50% women as administrators and close to 50% faculty are Women University of Kerala is predominantly women's University at every level. A noticeable feature is that the women representation at all levels has increased in the last 25 years, and there has only been nominal drop in this regard.

#### 7.4.3 Application Form

The University is in the process of transforming its application forms making it at par with international Standards. Seven application forms have been drafted thus and are under consideration for adoption. In style, content and design these forms adopt very many modern practices such as gender balance, scientific design and lucid communication.

#### 7.4.5 Entrepreneurship Development

The Department of Futures Studies has an Entrepreneurship Development cell (ED Cell) that is primarily meant to equip students with Entrepreneurship spirit and motivate them to become an entrepreneur. The ED cell functions on the basis of industry interaction and brings professionals from the IT hub of the Kerala and the firsthand experience of successful entrepreneurs.

#### 7.4.6 Industry Incubation

The Department of Bioinformatics incubated a company in the premises which produced a turnover of 30 lakhs in 2 years. The company Sooryakiran Bioinformatics Pvt. Ltd, the first Bioinformatics company in Kerala later moved out to Techno Park.

#### 7.4.7 Student Charter

The students of department of Bioinformatics have drawn up a students charter.

#### **7.4.8 ASPIRE**

Students wishing to take up project work in national institutions are supported with monthly stipend under ASPIRE scheme.

#### **7.4.9** Group Insurance for Students

The Department of Student Services distributed an amount of Rs. 10,00,800/- to students who met with accidents.

#### 7.4.10 Leadership Training Camps

These were organized in various colleges by DSS for inculcating leadership qualities among students.

#### 7.4.11 South Zone Youth Festival

University of Kerala achieved a Hat-trick win in the South Zone Youth Festival, winning the championship for the third time.

#### 7.4.12 Housing the Houseless

The NSS Unit recently built 14 houses for houseless students of affiliated college of the University.

#### 7.5 ACADEMIC INNOVATION

#### 7.5.1 Use of Social Media

A number of faculty members have been using social media for academic activities both formal and semi-formal. The forums used include facebook, blogs, scribd.com, Youtube, LinkedIn. One of the Departments runs a Youtube channel, in which all important lectures that are held in the Department are broadcast and all PhD open defenses are published.

Department of Futures Studies has installed Moodle on a website (<a href="http://hpc-ku.in/moodle">http://hpc-ku.in/moodle</a>). It provides digital course material online and submission of assignment etc. are done through the Moodle. Learning has been made more interactive through Smart Classroom by using the latest technologies in ICT which enhances the student learning opportunities.

#### 7.5.2 Knowledge and IP Management

A Center named Intellectual Property Management & Industrial Consultancy Centre (IPM-ICC) is being established in the University. All Intellectual Property related and consultancy related activities of the University of Kerala are to be brought under the proposed Center, which has the following mandates.

- To encourage and enhance innovations and thereby patent applications from University of Kerala.
- To encourage consultancy assignments for university Departments from industries and other clients including inter-departmental consultancies.
- To take up activities allied to innovation, IP generation and industry-institute interaction.

The Kerala University IP Policy has been proposed as follows:

The University of Kerala recognizes the importance of generation of intellectual property by teachers and students and it shall do all that is within

its powers and obligations to encourage increased creativity and innovation which will lead to generation of IP.

As a public institution funded by public money, the University of Kerala attaches prime importance to disseminate the knowledge it generates to the people, both locally and internationally. In case of a decision to patent an invention, the University of Kerala does not consider it as going against the principle of free knowledge dissemination, as the University would be able to, under social control, reinvest any share of return from the licensing of the patent to further the case of IP generation and knowledge dissemination.

The University of Kerala would encourage its teachers and students to take considered decision on a case by case basis to decide upon the use of the intellectual properties generated by the university. In case of inventions, this will involve a major discussion by the student and/or the teacher —"to publish or patent". In the case of publication, every effort should be made by the student and the teacher to consider an open access publication, provided other scholarly considerations are not compromised. This will ensure that results of public funded research are freely accessible to the public, without any barriers.

The University of Kerala recognizes the need to educate and empower its teachers and students to encourage them to generate and manage IP as per the policies of the University.

#### **7.5.3** Exams

Many departments have tried out innovations in examinations for internal assessment. Take home examination, no surprise examination (in which the format and type of questions are announced in advance), open book exams in which the questions do not rely on knowledge recall have been practiced in various departments.

#### 7.5.4 Curriculum Design

The concept of Negotiated studies where the students can propose topics for study which is negotiated with the faculty members and approved formally as an elective is being practiced in the department of Computer Science and department of Futures Studies. Flexi modules in syllabus are not covered in end-semester assessment but only in in-semester assessment and thus give scope of interpretation for the lecturer teaching the subject with the provision to make minor additions or deletions in the topics.

#### 7.5.5 Inter-University Centres

Inter-University Centres in Alternative Economics, Bioinformatics, Geo-Informatics, Genomics Technology etc. have been established with financial support from Govt. of Kerala. The Department of Biotechnology runs a journal club, which meets twice every month to discuss recent scientific publications. Each student and faculty will select one recent publication of his/ her choice from a journal and present, and discuss it in detail. This is continued on rotation basis among the research students and faculty.

#### 7.5.6 Research Council

The Research Council of the University with membership from industry, business and R&D Institutions has been providing valuable inputs in research activities.

#### 7.5.7 Visit of Erudite Scholars including Nobel Laureates

The University departments have, in the recent years, organized visit of eminent scientists & scholars including 3 Nobel laureates to the Campus using schemes of Govt. of Kerala (Erudite Scheme) ICSSR National Fellowship etc.

#### 7.5.8 Critical Pedagogy

Critical pedagogy has been practiced by Department of Law in its human rights courses.

#### 7.6 INTERNATIONALIZATION

#### 7.6.1 Credit Transfer Regulation

In line with changes taking place in networking between Universities world over, there is need for enabling student mobility amongst various universities. At present, a student who completes one semester in one University and is moving to another state, may have to be admitted afresh in a new University. Seeing that Credit transfer system will be a solution to this, a legislation recognizing selected individual courses in a Degree programme of an external university and reckoning the corresponding credits for award of a degree of another university has now been put in place. Kerala University is the first University in the state to go for such a legislation and perhaps one of the few state Universities in the country.

#### 7.6.2 Semester –in-India Programme

The University of Kerala has successfully implemented the Semester-In-India programme. Students of four American Universities were admitted to a single semester of Master's programme in University of Kerala. The students do a set of common core courses in the University and further choose courses from various departments of the University. These programmes have produced inflow of income as well as triggers of change in the University campus.

#### 7.6.3 Foreign Students Meet

The University of Kerala organized the first ever foreign students meet into campus on December 7, 2013. It was organized to accelerate the international activities of the University in particular and the state in general. 60 International students representing 23 countries (Uganda(3), Rwanda (1), Tanzania (1), Chad (1), Ethiopia (2), Fiji (1), Ghana (1), France (1), Senegal (1), Kazakhstan (1), Kenya (2), Iran (25), Spain (1), Indonesia (1), Nepal (10), Nigeria (1), Afghanistan (1), Liberia (1), South Africa (1), Taiwan (1), Japan (1), Namibia (1) and Sudan (1)) participated in the meet. The meet discussed the problems faced by the Foreign Students in Kerala.

#### 7.6.4 Publishing History & Current Statistics of Foreign Linkages

To plan well the international activities of the University, a history and current statistics of foreign linkages of university of Kerala has been compiled and published. This has given a solid platform to design international activities of the University .

#### 7.6.5 Erasmus Mundus Programme, Obama Singh Initiative

The University of Kerala has been successfully running the Erasmus Mundus program and later the EMINTE program by the United Nations enabling scholars and teachers to visit 9 European universities and also attract students and scholars from these universities to University of Kerala. The

University has also submitted an application for interaction with Green Valley State University under the Obama Singh initiative.

#### 7.7 MISCELLANEOUS

#### 7.7.1 Curio Corner

The University has established a sales corner in which specially designed curios with University logo are made available for sale.

**7.7.2** Consultancy Group for Research and Forecasting(C-Graf) has been formulated as a consultancy Center in 1992. The prime objective of the Centre is to undertake socially relevant consultancy work catering to the needs of the central and state Governments and the organizations/institutes under its purview. C-Graf has successfully completed lot of interdisciplinary projects for various funding agencies like World Bank, ADB, JBIC, FHI apart from other state and central Government bodies.

#### 7.7.3 Election Surveys

Students of the Department of Communication and Journalism participated in pre-election surveys (Loksabha polls) conducted by National Media Organizations.

#### 7.7.4 Knowledge Management Diploma

The department of Futures Studies sensing the scope for knowledge management started a post graduate diploma in Knowledge Management under the innovative programme of University Grants Commission (UGC) in 2011-12. The syllabus for the Negotiated studies is prepared by the students themselves and the students get an opportunity to frame their own curriculum for a research problem. The Post Graduate Diploma in Knowledge Management Courses offered by the Department is supported by IBM to train students in IBM COGNOS and to provide placement assistance to students.

#### 7.7.5 Publishing Research Compendium

The Department of Commerce has published a research compendium documenting the research it has done in the past 25 years.

#### 7.7.6 Best Department

Award for Best University Department has been instituted to motivate performing Departments and bring to light their best practices for possible emulation by others and to generate a friendly competition among departments. Awards are based on activities in the last 36 months reckoned from the last date for submission of nominations. The Award is Rs.5,00,000/-which will be remitted to the DDF and can be utilized for development of the department as the Department Council deems fit. A citation signed by the Vice- Chancellor shall also be given. To further the objectives of the award, an edited compilation of all award applications will be published.

#### 7.7.7 E-grants for SC/ST

SC/ST welfare department has launched online filing of application form to provide stipend for Post Metric SC/ST students of Kerala. This service, available through <a href="https://www.e-grantz.kerala.gov.in">https://www.e-grantz.kerala.gov.in</a>) has been implemented in the University. Application can be submitted online by students themselves using the menu provided in the E-Grantz home page. Students can also submit applications online through Akshaya e-Centres

elsewhere in the state. The Akshaya Centres supply a print out of the online application.

#### 7.7.8 Exhibition

The Department of Archaeology's artifacts collection cover the prehistoric, megalithic, early historic and medieval period. These were artifacts recovered from various parts of Kerala and an extensive collection of artifacts from the Mesolithic, Harappan, Early Historic and Medieval sites from Gujarat and other states of India. Geology Department has held exhibitions on earth science in the campus with entry for school students as well.

#### 7.7.9 Diary of Campus Association

A diary documenting Campus life and services available in the vicinity has been published by the Campus Association at Karyavattom.

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#### **APPENDIX-7A**

# University of Kerala Green Charter

The green charter for the University of Kerala outlines practices to be prioritized and aimed at, within resources and constraints, to ensure best possible co-existence with nature.

Through education and research the University shall promote the principles, essentials, knowledge and practices of sustainable development, especially the 6R's (Reduce, Reuse, Recycle, Refuse, Rethink and Respect)

The University shall seek to address the local societal demand in environmental conservation and be part of the public awareness towards environmental education and creation of knowledge societies.

In each and every activity-academic, research, extension or administrative - the University community shall consider the green aspects and address them suitably.

No plastic wrapped bouquets, plastic wrapping of mementos, plastic confetti/kodithoranam shall be used in functions organized by the University. Plastic files, plastic pen shall not be distributed in Seminars and Conferences.

Use of flex sheets shall be minimized, and where used, cloth base shall be ensured.

Plastic sheets shall not be used in dissertations to overlay title pages etc.
Assignments and brief reports submitted by students shall not use plastic covers. Spirals, if used, shall be recycled. Research and project proposals submitted to funding agencies shall not use plastic covers. Reuse of envelopes shall be encouraged.

Plastic cups and plates, thermo-cool plates shall not be used in public function including open defenses. In conferences and meetings, the University shall promote good food culture and create awareness against use of junk food and carbonated soft drinks on the campus. Plastic packed materials shall be discouraged and ethnic food shall be promoted. Bottled water shall be used only when absolutely essential.

Monoculture of Acacia in Kariavattom Campus shall be gradually replaced with a variety of trees aimed at preserving and enhancing the biodiversity of the Campus.

The communication of administrative and academic matters shall increasingly be transferred to electronic means, reducing the use of paper, and at the same time, creating awareness about carbon emission associated with emails, search engines and social networking facilities.

All new buildings shall be constructed as Green buildings, which minimize artificial lighting and air-conditioning.

# Appendix 7 B AWARD FOR BEST UNIVERSITY DEPARTMENT SCORING SHEETS FOR DEPARTMENTS

#### NOTES ON PREPARING PROPOSALS FOR AWARD

- 1. Objective of the award: To motivate performing Departments and bring to light their best practices for possible emulation by others and to generate a friendly competition among departments.
- For the purpose of this award, Departments are grouped as follows:
   Applied Sciences & Technology: Futures Studies, Computational Biology, Computer Sciences, Opto-electronics Sciences:
   <<Dr Prabhash sir pls fill >> (IDE shall not be considered for award due to its multi-subject nature
- 3. Awards are based on activities in the last 36 months reckoned from the last date for submission of nominations, except as indicated in the scoring sheet. Award will be given once in 3 years.
- 4. No awards shall be given if total score of the Department is less than 50 percentage
- 5. No awards shall be given in a group where there is only one nomination.
- 6. Award shall not be given to a department if the score is below 75% of what is obtained by the previous Awardees in the group.
- 7. The award shall be Rs. 1, 00,000/- which will be remitted to the DDF and can be utilized for development of the department as the Department Council deems fit. A citation signed by the Vice-Chancellor shall also be given. To further the objectives of the award, an edited compilation of all award applications will be published.
- 8. Department may, along with submitting scoring sheets, raise objections to any item along with detailed reasons thereof endorsed by the Department Council. The evaluation team will consider these objections before commencing the evaluation and shall have the powers to delete items from consideration if they so deem fit.
- 9. Scoring schemes are indicated as A, B, C, etc., which shall have the following procedures.

- A- Score to be awarded by the Department Council and documentary evidence or declaration by concerned faculty/ Department Council may be attached.
- B- Score will be computed based on the numbers or quantities claimed (with documentary evidence/declaration) by all departments in the group. Full scores will be given to the top Department and others will be given marks proporationally. For instance if there are 3 departments in a group with 3, 2 and 1 PhDs produced/faculty, then they are given 60, 40, and 20 marks respectively since maximum score for PhDs produced is 60.
- C- Items in this category will be evaluated by an expert team consisting of 3 eminent persons (i) a former Vice-Chancellor (ii) an eminent scholar (iii) a public figure. They will rate items as A (Excellent), B (Very good), C (Good), D (Average) E (Below average). These shall be give 100%, 80%, 60%, 40% and 10% scores respectively
- 10. Items marked with a \* are to be calculated on a per-faculty basis. In such cases, numbers are to be divided by faculty count. Period covered is 3 years. If number of permanent faculty is N and if they are all in service during 3 years, then faculty count is taken as N. Otherwise, proportionate fractions are to be taken. For example, 1 teacher who has been in service for 9 months and 2 teachers over the whole 3 years results in faculty count of 2 +9/36 = 2.25. For items on PhD/Postdoctorals, count may be restricted to faculty who are guides.

Part A: Academic Achievement of the Department (Max Score 400)

Sl.	Component	Max	Remarks	Ev
No		Scor		al
		e		
1	Recognition of the department by	20	15 marks for first	Α
	agencies or councils of national		recognition, 5	
	importance		more for any	
	(UGC-SAP/UGC-FIST/UGC-		additional	
	DOE/DST/ ICMR/		recognition of	
	ICSSR/CSIR/AICTE/KSCSTE/SARD		other agencies(s)	
	(In the past 5 years)			
2*	Number of books published by faculty	25		В
	through reputed publishers during the			
	last 3 years (excluding edited volumes)			
3*	Number of research papers in journals	65		В
	approved by BOS during the last 3			
	years			
4*	Keynote speaker/Inaugural Address/	10	Outside Country	В
	Valedictory Address Chairman in		= 5	

	seminars/Conferences during the last		Outside State = 3	
	3 years		Inside State = 2	
5*	Number of papers presented in	20	Outside Country	В
3	conferences or seminars/invited talks	20	= 10	Ъ
			Outside State = 6	
	during the last 3 years		Inside State = 4	
6*	Number of funded projects during the	5	Ilisiue State – 4	D
0.	Number of funded projects during the	3		В
7*	last 3 years	20		В
/	Total amount of funded projects	20		Ь
8*	during the last 3 years	10		В
0	Number of Awards received by	10		D
	prestigious professional/Scholarly			
	societies, State/National Academies			
	during the last 3 years	10	10 10 11	
9	Number of Chair/Endowments	10	10- If at least one	A
	established in the Department during		is established	
10	the last 3 years	10		D
10	International Travel on official duty by	10		В
*	faculty during the last 3 years			D.
11	Number of PhDs produced by Faculty	60		В
*	during the last 3 years	10	0 11 0 1	D.
12	Membership in Academic Bodies of	10	Outside State = 6	В
*	other Universities during the last 3		Inside State $= 4$	
	years	20	<b>TIL 1 0</b> 0	
13	Number of patents filed/granted or	30	Filed – 20	Α
*	Technology transferred during last 10		Granted – 10	
	years		Tech Tr – 10	
14	Journals published by the Department	20		Α
	(if at least one issue is published every			
	year during the last 3 years)			
15	Number of Conferences Organized	10		В
*	during the last 3 years			
16	Number of Seminars Organized during	10		В
*	the last 3 years			
17	Number of consultancy assignments	5		В
*	taken up by faculty during the last 3			
	years			
18	Total value of consultancy projects	15		В
*	during the last 3 years			
19	Any MOU with other institutions in	15	Foreign-10	A
*	the last 10 years		Indian-5	
20	Sum of best citation count by each	20	If Google	
*	faculty member (as evidenced by		Scholar shows 40	
	Google Scholar search or any other		citations for one	
	established means) as reckoned in the		faculty member	
	month of application.		and 20and 15 for	
			2 others, then	
			40+20+15=75.	
			Divide this by	
			faculty count	

Part B: Teaching Methodology (Total Score 110)

Sl.	Component	Max	Remarks	Eval
No.		Score		
21	Pedagogic Innovations practiced in the Dept. (Department council has to list maximum 3 pedagogic innovation with brief description . Use of ICT my be excluded as it is mentioned as separate item)	30		С
22	Updating the curriculum during last 5 years.	20	2 Updations – 25 marks 1 Updation – 15 marks Nil – 0 marks	A
23	Effective use of ICT(Department Council has to give statement)	30	Course website – 5 Student email group in use for at last one year – 5 Substantial use of multimedia presentation–5 On-line lectures/video – 5 Others - 5	A
24	Multi-disciplinary approach (No. of Inter Departmental electives taken/offered, Joint projects/Research guidance with other Departments, other activities which encourage students to connect to other Departments/disciplines) Department Council has to give statement	15		С

Part C: Student Profile (Total Score 150)

Sl.	Component	Max	Remarks	Eval
No.		Score		
25	Number of applications for	20		В
	Masters/Seat during the last 3			
	years			
26	Number of applications for Mphil	20		В
	and/or MTech/Seat during the last			
	3 years			
27	% of outside state students (	5		В
	Masters + MPhil + PhD) during			
	the last 3 years			
28	% of foreign students ( Masters +	10		В
	MPhil + PhD) during the last 3			

	years		
29	% of students who obtained	20	В
	NET/JRF/GATE etc during the		
	last 3 years		
30	% of students placed during the	25	A
	last 3 years		
31	Active Alumni Association	10	C
	(Please provide statement		
	approved by the Department		
	Council on Alumni activities)		
32	Contribution from Alumni to	10	В
	Department		
	(Please quantify in Rupees)		
	during the last 3 years		
33	Number of active student clubs	10	A
	during the last 3 years		
34*	Number of post doctorals during	10	В
	the last 3 years		
35	Recognition for Research	10	В
	Students (Young Scientist Award		
	etc) during the last 3 years		

#### Part-D: Miscellaneous (230)

Sl.	Component	Max	Remarks	Eval
No.		Score		
36	Number of events conducted for	20		В
	general public (Seminars,			
	Exhibitions, and Camps etc)			
	during the last 3 years			
37	Number of popular articles	15		В
	published by faculty/students			
	during the last 3 years			
38	Number of events targeting	10		В
	school of children during the last			
	3 years			
39	Awareness literature/material	10		A
	produced (Example: leaflet on			
	waste management) during the			
	last 3 years			
40	Involvement of faculty in NSS	10	Leadership -5,	Α
	activities during the last 3 years		Participation - 5	
41	Involvement in Placement Cell	10	At least one faculty	
	during the last 3 years		member formally	
			involved – 5	
			More than one - 10	
42	Involvement in Finishing School	10	"	
	during the last 3 years			
43	Involvement in Entrepreneurship	10	"	
	development during the last 3			

	years			
44	Involvement in IQAC during the	10	"	
	last 3 years			
45	Involvement in Hostel	5	"	
	Management during the last 3			
	years			
46	Involvement in Departments	5	"	
	Union during the last 3 years			
47	Any Department publication	10		В
	other than research journals?			
	during the last 3 years			
48	Number of eminent scholars	15	Foreign - Max 10 (5	В
	including erudite scholars to the		per visitor)	
	Department during the last 3		Indian –Max 5 (2.5	
	years		per visitor)	
49	Visitors diary maintained by	5		Α
	Department during the last 3			
	years ?	_		
50	Number of Entries/year in	5		В
	visitors diary during the last 3			
<b>7</b> 1	years	20	T (1 . 10 . 1	
51	Printed Department brochure	20	Leaflet 10 marks,	A
50	during the last 3 years		Booklet 20 marks	
52	Rating of Department website:			
	(Give address of the website and			
	submit webpages for evaluation with brief notes)			
		5		С
	(i) Up-to-date and professionally maintained	)		C
	(ii) Student Representation?	5		С
	(iii) Downloadable Resources	5		C
53	Library Usage, No. of books	20		В
33	issued over 3 years	20		Ъ
	155ucu Over 5 years			

#### **PART-D:** Best Practices & Overall Evaluation (Max score of 150)

54-55. Five best practices by the Department other than whatever is mentioned above with a brief description may be given. (Score of 20 each) Evaluation: C

56. Overall Evaluation through a visit to the Department by the expert team, based on upkeep of premises, interaction by the team with faculty and students : 50 Marks : Evaluation: C



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Prof. P. K. RADHAKRISHNAN, Ph. D.

Vice - Chancellor

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## 4. Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the Institution with seal:

Place: Thirnvananthapuram

Pate: Monday, August 11, 2014



