



**ANNUAL QUALITY ASSURANCE REPORT
(AQAR)
2016 -2017**



CENTRAL UNIVERSITY OF KERALA
Tejaswini Hills, Periyé (PO),
Kasaragod District, Kerala 671316



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Tejaswini Hills, Periye (PO), Kasaragod District,
Kerala 671316

**THE ANNUAL QUALITY ASSURANCE REPORT
(AQAR) OF THE IQAC (2016-17)**

PART - A

1. Details of the Institution:

1.1 Name of the Institution

Central University of Kerala

1.2 Address Line 1

Tejaswini Hills

Address Line 2

Periye Post, Kasaragod

City/Town

Kasaragod

State

Kerala

Pine Code

671316

Institutional e-mail address

registrar@cukerala.ac.in

Contact Number

04672232401, 2232414

Name of the Head the Institution

Prof. (Dr.). G. Gopa Kumar

Name of the IQAC Director

Dr. M N Mohemedunni Alias Musthafa

Mobile Number

9447596952

IQAC e-mail address

directoriqaccuk@cukerala.ac.in
igac@cukerala.ac.in

1.3 NAAC Track ID

1.4 NAAC Executive Committee No. & Date

1.5 Website Address

www.cukerala.ac.in

Web-link of the AQAR

https://www.cukerala.ac.in/index.php?option=com_content&view=article&id=1429&Itemid=738&lang=en

1.6 Accreditation Details:

Sl. No	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
01	1 st Cycle	B++		2016	5 years (2016-2021)

1.7 Date of Establishment of IQAC

23.11.2012

1.8 AQAR for the year

2016-17

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC:

Not Applicable

1.10 Institutional Status

University: State Central Deemed Private

Affiliate Colleges: Yes No

Constituent Colleges: Yes No

Autonomous Colleges of UGC Yes No

Regulatory Agency approved Institution: Yes No

Type of Institution Co-Education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-In-aid + Self financing Totally self financing

1.11 Type of Programme:

Arts Science Commerce Law PEI (Phy.Edu)

TEI (Edu) Engineering Health Science Management

Others

1.12 Name of the Affiliating University (for the colleges)

1.13 Special Status conferred Central/State Government - UGC/CSIR/DST/DBT/ICMR/etc.

Autonomy by State/Central Govt./University

Central University

University with Potential for Excellence	<input type="text" value="--"/>	UGC-CPE	<input type="text" value="--"/>
DST star scheme	<input type="text" value="--"/>	UGC-CE	<input type="text" value="--"/>
UGC-Special Assistance Programme	<input type="text" value="--"/>	DST-FIST	<input type="text" value="--"/>
UGC-Innovative PG Programme	<input type="text"/>	Any Other (<i>Specify</i>)	<input type="text"/>
UGC-COP Programme	<input type="text" value="--"/>		

2. IQAC Composition & Activities:

2.1 No. of Teachers	<input type="text" value="11"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="03"/>
2.3 No. of Students	<input type="text" value="0"/>
2.4 No. of Management representatives	<input type="text"/>
2.5 No. of Alumni	<input type="text" value="1"/>
2.6 No. of any other Stakeholder and Community representatives	<input type="text"/>
2.7 No. of Employers/Industrialists/Experts	<input type="text"/>
2.8 No. of other External Experts	<input type="text" value="04"/>
2.9 Total no. of members	<input type="text" value="21"/>

2.10 Number of IQAC meeting held:

2.11 No. of meeting with various stakeholders: Total No. Faculty

Non-Teaching Staff Students Alumni Others

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

2.13 Seminars and Conferences (only quality related)

(i) No. of seminars/conferences/workshops/symposia organized by the IQAC

Total No. International National State Institution level

(ii) Themes

2.14 Significant Activities and contribution made by IQAC

- Sensitization Programme for Faculty and Non-Teaching Staff towards E-Learning and E-Management.
- Students Feedback System.
- Facilitating Career Advancement Scheme of Faculty Members.
- Orientation on MOOC.

2.15 Plan of Action by IQAC/outcome

MOOC Proposal submitted by Faculty members.

Promotion of Faculty members materialized.

2.16 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provided the details of the action taken

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	16	01	-	-
PG	19	02	-	-
UG	01	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	36	03	-	-

Interdisciplinary	4	-	-	-
Innovative	3	-	-	-

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

Plattern	Number of Progrmmes
Semester	36
Trimester	-
Annual	-

1.3 Feedback from stakeholders*

Alumni Parents Employees Students

(on all aspects)

Mode of feedback Online Manual Co-operating schools (for PEI)

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

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

Yes, updated

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

Yes,
 1. Geology,
 2. Public Administration and Policy Studies,
 3. Public Health and Community Medicine

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of faculty	Total	Asst. Prof.	Asso. Prof.	Professor	Others
	115	77	23	12	03

2.2 No. of permanent faculty with Ph.D

102

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

Asst. Professors		Associate Professor		Professor		Others		Total	
R	V	R	V	R	V	R	V	R	V
58	05	21	14	12	11	01	02	93	31

2.4 No. of Guest/s and Visiting faculty and Temporary faculty

13

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	40	92	17
Presented papers	63	97	6
Resource Persons	33	106	27

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

- ✓ ICT – enabled Teaching/ MOOC initiatives/ SWAYAM/ GIAN
- ✓ Model Making and visualisation through the structure, Topics covered in the class are given for seminar presentation which will be helpful for both slow and fast learners; students are asked to submit prepared notes on topics covered in previous days, which help students to become up to date with the progress of course.
- ✓ The department has started using Moodle to do the semester wise academics activities.
- ✓ The teaching – learning process is mainly based upon student centric approaches where students' involvement in the learning process is ensured. Lecture cum demonstration methods, drawing on case studies, anecdotal evidences, field based teaching, hands on methods and situational analysis.
- ✓ Cooperative Learning, Field Visit, ICT
- ✓ Participatory Learning, Group Discussion, Peer Teaching
- ✓ Flipped class room method
- ✓ Use of ICT, activity based teaching
- ✓ Online Video Lectures, Group Discussions, PPT, ICT
- ✓ Lecture method, usage of power point presentations, Use of Information and Communication Technology (ICT), visits to the Library, utilize Internet, conducted students Seminars and Assignments, class room tests, group discussions, conducted career guidance and counselling activities, allowed students to participate in NSS activities, building competitive skills to students, to teach contents beyond the syllabus, usages of glob arena materials for preparing the lectures.
- ✓ The courses in the program are interdisciplinary in nature and hence the methods adopted vary with each course. In general, our courses are delivered through classroom lectures, student seminars,

group activities and community visits. In order to enhance the research aptitude and update their knowledge in recent developments in public health research, we have a journal club, where presentations are conducted by students. We engage the students in field based learning where students carry out practical assignments in community settings such as in-depth interviews, observations and group discussions; and visit institutions of public health relevance so as to facilitate learning through observation. A few students who are in-service health professionals share their practical experience as an employee/insider of the health system, to stimulate the discussions/learning process. The inter-disciplinary profile of the students bring in different perspectives on a specific topic during the discussions.

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

180 days

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

- ✓ Double Valuation - Online multiple choice (internal)
- ✓ Complying the revised PG regulation and Ph.D. regulation including internal & external valuation
- ✓ Double Valuation, Photocopy, Online Multiple Choice Questions) Assignments, individual seminar presentations

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

Board of Study	Faculty Development	Curriculum Development
45	21	25

Average percentage of attendance of students

75%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. Of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BA International Relations	28	3	97	-	-	100
M.A. Economics	23	4.35	34.78	34.78	-	73.91
MA English & Comparative Literature	22	0.00	68	27	5	100
M.A. Linguistics & Language Technology	13	0.00	84.61	16.12	-	100
M.A. Hindi & Comparative Literature	19	0.00	17	02	-	100
M.A. International Relations & Political Science	15	0.00	12	3	-	-
M.Ed. (Master of Education)	12	75.00	25	0.00	-	100
M.Sc. Animal Science	21	0.00	66.6	33.3	-	100
M.Sc. Biochemistry & Molecular Biology	19	0.00	14	5	-	100
M.Sc. Chemistry	16	1	12	0.00	-	86.6
M.Sc. Computer Science	18	27.5	56	16.5	-	-

M.Sc. Environmental Science	20	25	75	-	-	-
M.Sc. Genomic Science	19	20.00	57.89	42.11	-	-
M.Sc. Mathematics	21	71.43	19.05	-	-	90.48
M.Sc. Plant Science	21	38	62	-	-	-
M.Sc. Physics	19	42.10	47.36	10.52	-	-

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

- IQAC collect feedback from students and faculty members of the departments from time to time.
- Giving the suggestions in pedagogy
- MOOC Training Programmes conducted
- Orientation for Faculty members on promoting Digitalized System

2.13 Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of faculty benefitted
Refreshers courses	07
UGC-Faculty Improvement Programme	--
HD programmes	--
Orientation programmes	09
Faculty exchange programme	01
Staff training conducted by the university	03, GIAN Programme
Staff training conducted by the institutions	--
Summer/Winter schools, Workshop, etc.	50
Others	01

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	54	55	1	*
Technical Staff	08	17	NIL	NIL

* A total of 198 staff engaged through outsource agency (for security, cleaning, housekeeping and other services and 01 Medical Officer Contract basis.

Criterion - III

3. Research, Consultancy and Extension

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

- Department is conducting a weekly seminar by research scholars where one student present his/her research work. This improves the work organization and presentation skills of the students.

- Through conducting workshop/debates, extension activities & initiating tie-ups with research institutes the students as well as faculty members are sensitized towards research & extension.
- Conducted workshop.
- Suggested to improve the quality of the Teaching methods, develop Departmental Library & Language Lab.
- It maintains relevant and quality research programmes, organization of Seminars on quality related themes and promotion of quality service.

3.2 Details regarding major projects

Particulars	Completed	Ongoing	Sanctioned	Submitted
Number	13	23	8	8
Outlay in Rs. Lakhs	61	733.60	217.05	118

3.3 Details regarding minor projects

Particulars	Completed	Ongoing	Sanctioned	Submitted
Number	2	5	2	8
Outlay in Rs. Lakhs	12	47.5	--	--

3.4 Details on research publications

Particulars	International	National	Others
Peer Review Journals	162	27	2
Non-Peer Review Journals	--	3	6
e-Journals	1	1	1
Conference proceedings	25	27	--

3.5 Details on Impact factor of publications:

Range	0 to 51	Average	2.37	h-Index	11	Nos. in SCOPUS	158
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3.6 Research funds sanctioned and received from various funding agencies, industry and other organizations

Nature of the Project	Duration Year	Name of the funding Agency	Total Grant Sanctioned	Received
Major Projects	3	SERB-DST	265.9 Lakhs	221 Lakhs
	3	DBT		
	4	SERB-DST		
	3	SERB-DST		
	3	UGC	30 Lakhs	10 Lakhs
	3	DST	43.7 Lakhs	31.14 Lakhs
	4	SERB	23,22,000	13,70,157
	3	UGC	6 Lakhs	6 Lakhs

	2	ICSSR	20 Lakhs	-
	1	ICSSR	3.5 Lakhs	-
	3	KSCSTE-KBC	16 Lakhs	5 Lakhs
	5	DBT	25 Lakhs	18 Lakhs
	4	SERB	52 Lakhs	Nil
	4	DST	41.65 Lakhs	20 Lakhs
	4	DST-SERB	25 Lakhs	5.5 Lakhs
	5	DBT	25 Lakhs	5.4 Lakhs
	4	SERB	23 Lakhs	2.6 Lakhs
	3	KSCSTE	24 Lakhs	15.96 Lakhs
	2	SERB	33.4 Lakhs	20 Lakhs
	4	DST	96,92,800	49,70,687
	5	SERB	27.2	-
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Project sponsored by the University/College	--	--	--	--
Students research projects (Other than compulsory by the University)	--	--	--	--
Any Other (Specify)	--	--	--	--
Total	67	--	3,66,15,188	1,44,61,905

3.7 Number of Books Published

i) With ISBN No.

39

apters in Edited Books

30

iii) Without ISBN No.

--

3.8 No. of University Departments receiving funds from

UGC-SAP

--

CAS

--

DST-FIST

--

DPE

--

DBT Scheme/Fund

√

3.9 For Colleges

Autonomy

--

CPE

--

DBT Star Scheme

--

INSPIRE

--

CE

--

Any Other (Specify)

--

3.10 Revenue generated through consultancy

Level	International	National	State	University	College
Number	7	16	04	---	--
Sponsoring agent	CUK/ISARCO N	CUK/IIT DELHI			

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

3.13 No. of collaborators International National Any Other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs.

From Funding agency From Management of University/Colleges

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	--
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	01

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

Total	International	National	State	University	Dist.	College
14	04	10				

3.18 No. of faculty from the Institution who are Ph.D Guides

and
Students registered under them

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

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

JRF SRF Project Fellows Any Other

3.21 No. of students Participated in NSS events:

University level	<input type="text" value="150"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.22 No. of students participated in NCC events:

University level	<input type="text"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.23 No. of Awards won in NSS:

University level	<input type="text"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.24 No. of Awards won in NCC:

University level	<input type="text"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="1"/>	College forum	<input type="text"/>
NCC	<input type="text"/>	NSS	<input type="text" value="5"/>
		Any other	<input type="text"/>

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

Inspire Internship Science Camp hosted by Central University of Kerala, held from 26 December 2017 to 31 December 2017 was attended by 175 students from 99 schools and 15 invited school teachers and 12 INSPIRE alumni. The camp became the venue for fruitful interactions between reputed scientists and young talents. The mentors included a galaxy of 13 scientists and academicians belonging to Physical, Chemical & Biological Sciences from reputed national institutions such as Indian Institute of Technology, Madras, Indian Institute of Technology, Tirupati, Indian Institute for Space Science and Technology, Thiruvananthapuram, Institute of Interdisciplinary Science Education and Research, Thiruvananthapuram, Vels University, Chennai, Vellore Institute of Technology, Vellore, Pondicherry Central University, Pondicherry, and Cochin University of Science and Technology, Kochi and Central University of Kerala.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	310 Acre	-	UGC	310 Acre
Class rooms	66	3	UGC	69
Laboratories	54	2	UGC	56
Seminar Halls	3	-	UGC	3
No. of important equipments purchased (\geq 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. In Lakhs)				
Others				

4.2 Computerization of administration and library

Koha Library management software

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	600	2 Lakh	6951	14137231		1.41 Lakh
Reference Book	2000	15 Lakh	1000	7.51		
e-Books	30000	e-books free from INFLIBNET				
Journals	66	10 Lakhs				10 Lakhs
e-Journals	8000	e-books free from INFLIBNET				
Digital Database	07	1700000	2	13.5 Lakh		13.5 Lakh
CD & Video	500	1 Lakh	-	-	500	1 Lakh
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing								
Added								
Total								

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

--

4.6 Amount spent on maintenance in lakhs:-

i)	ICT	0.82
ii)	Campus Infrastructure and facilities	3.82
iii)	Equipments	5.41
iv)	Others	11.93
Total		21.98

Criterion - V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- ✓ During the time of student admission, information regarding the student support services is provided by the faculty. Students are updated from time to time about any new information regarding the student support services
- ✓ The department has taken initiatives to organize a variety of programmes such as extension activities, career development cell, training/ coaching for competitive exams, discussions & debates on contemporary issues which are having larger public interest & policy implications. IQAC is giving adequate support to these endeavours.

5.2 Efforts made by the institution for tracking the progression

--

5.3 (a) Total Number of students

UG	PG	Ph.D	Others
88	685	185	

(b) No. of students from outside the state

63

(c) No. of International students

04

Men	No	%	Women	No	%

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
326	88	42	450	01	906	427	121	54	505	11	1107

Demand ratio

Dropout %

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

- ✓ YES like Civil service coaching by CUK
- ✓ Lectures, assignments, seminars, discussion etc. as part of the curriculum enable students to improve their performance and skills. In addition, students are getting benefitted from talks and special lectures of eminent scientists and professors that are organized by the department. Altogether, the department provides an environment for motivating self-learning abilities and to prepare for national and state level competitive examinations.

No. of students beneficiaries

214

5.5 No. of students qualified in these examinations

NET

34

SET/SLET

6

GATE

8

CAT

IAS/IPS etc.

State PSC

3

UPSC

Other

2

5.6 Details of student counselling and career guidance

- ✓ Department faculty give counseling to students at the time of admission as well as during the entire course of study. Faculty share their experiences with students and give them valuable suggestions and advises regarding competitive examinations,.
- ✓ The faculties within Department mentor the students as of their needs and provide counseling regularly. The Department also started placement cell.
- ✓ The faculties within Department mentor the students as of their needs and provide counseling regularly. The Department also started placement cell.
- ✓ State Counselling is done for writing competitive exams and career guidance at Department level only.
- ✓ Academic & professional Counselling functions as the mentor of 10 students. e system of mentoring, wherein one faculty
- ✓ All teachers are guiding & counseling for career.
- ✓ Guidance of counseling cell conducted one day seminar

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
1	14	-	7

5.8 Details of gender sensitization programmes

- Through student counselling by faculty members of the department. Department has a woman cell which addresses gender based issues
- Penma- Womens day celebration
- Mother and baby friendly room for breast feeding initiatives

5.9 Students Activities

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

State/University level National level International level

No. of students participated in cultural events

State/University level National level International level

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

Sports : State/University level National level International level

Cultural: State/University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	148	8000/month 15000/Year
Financial support from government	193*	#
Financial support from other sources	21**	
Number of students who received International/National recognitions	02 (UGC)	#

*E-grants, MANF

Depends upon funding agency

** DCE scholarship

5.11 Students organized/initiatives

Fairs : State/University level National level International level

Exhibition : State/University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: _____

- (i) Student's request for arranging a fan in class room (addressed)
- (ii) Request to make available wi-fi network (addressed)
- (iii) Request for additional personal computers is under process.

Criterion - VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

To ensure quality higher education and thus contribute to the development of the remotely located district in Kerala

Become a centre of excellence in the field of science and technology. Make a foot print of the department in the national and international scenario by innovative research and teaching

Vision: To be the centre of excellence through expansion & dissemination of knowledge, competitiveness, ethics & values among the stakeholders with an inclusive & sustainable approach.

Promotion of composite ethos through curricula development and various literary and cultural activities/ Introducing classical literature through special lectures by renowned scholars/ Motivating students to essential social issues and democratic values/ Maintaining discipline and cohesiveness among students/ Inter disciplinary approach to imparting Knowledge.

6.2 Does the Institution has a management Information System

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

- ✓ Curriculum is annually revised with recent trends and developments in the area; also incorporating the suggestions from eminent scientists and professors who are the part of Board of studies of the department. Feedback of curriculum is also collected from renowned scientists of national and international status and their comments and suggestions are incorporated. Student feedback from passed out Alumni are also taken in to consideration in the curriculum revision.
- ✓ The department evaluates the student feed-back to improve teaching, syllabus revision, and delivery methods. The outgoing students were asked to give proposals for any necessary changes in the syllabus. Every academic year, the faculty council of the department meets and proposes necessary changes in the curriculum and syllabus based on the input received from alumni, industry, faculty (national/international) and on-going students.
- ✓ Experts Feedback
- ✓ CBCS curriculum, Board of Studies for curriculum revision
- ✓ Board of Studies & National workshop on Research Methodology.
- ✓ Curriculum was developed for the department in the year 2016-17 and it is intended to revise every year with the feedback from external experts, faculty and students. Teaching and Learning Feedback on the teaching is sought from the students for each courses and learning is evaluated based on the student performances in assignments, internal exams and group work for the respective courses.

6.3.2 Teaching and Learning

- ✓ In addition to conventional class room teaching practices, our faculty also adopt interactive teaching methods that motivate students for self-learning. Classes are taken interactively with active student participation. Student seminars are conducted as part of courses which are beneficial for both fast and slow learners. Seminars from fast learning students will be benefit slow learners; on the other hand, slow learners will also develop presentation and communication skills along with gaining better understanding of the concepts. Class assignments are mainly problem/application oriented which test the student's understanding of theoretical basics and improve the problem solving skills. Through the above activities students also get equipped for state and national level competitive examinations.
- ✓ We follow choice-based credit system for M.Sc. The department offered elective courses by giving preferences to student choice. , We follow, chalk and black board, power point lectures, multimedia presentations, white-board and marker pen, videos, paper discussion, Student Presentations, in class and take-home assignments. We follow continuous assessment and end semester exams to evaluate the student performance. During the last semester each student is required to carry out a project work under the supervision of a faculty member of the Department. However, a student may also opt to pursue his project work in a reputed industry/institution with the consent of Department/Institute. In such cases, the department must look into the suitability of the projects and assign one internal guide/supervisor. The internal supervisor shall monitor progress of the student continuously.
- ✓ Flipped Classroom, Cooperative Learning, MOODLE
- ✓ Participatory learning, peer teaching, seminars and group discussions
- ✓ Student feedbacks are taken. ICT based teaching
- ✓ Seminar, Dissertations & Group Discussions.

6.3.3 Examination and Evaluation

- ✓ A minimum of two tests per subject are conducted in addition to the assignment and seminars in each course. In practical courses, as part of the continuous assessment, theoretical understanding of the experiment, performance skill, accuracy and precision in measurements etc. of the students are scrutinized and constantly evaluated. End Semester examination answer scripts are evaluated by both department faculty and an external supervisor. This double-valuation ensures the quality.
- ✓ We follow continuous assessment and end semester exams to evaluate the student performance.
- ✓ Double and even triple evaluation (in cases of a difference of 5 and above between the 1st and 2nd evaluations)
- ✓ External and internal evaluation. Relative grading system
- ✓ Double Valuations.
- ✓ Apart from the end semester external evaluation, the students are being assessed for their knowledge and skills on the respective courses through individual field assignment, classroom group work and individual-group presentations.

6.3.4. Research and Development

- ✓ Department faculty are carrying out independent and collaborative (national and international) research projects in diverse areas such as industrial-heterogeneous catalysts development, organic chemistry, surface chemistry, polymer chemistry, nanoscience, computational chemistry, supramolecular chemistry, dye sensitized solar cells, ultra-fast electron and energy transfer reactions, catalysis and CO₂ capturing etc. 3 of our faculty members have funded research projects from DST/DST-SERB. 12 PhD students have been newly joined in the year 2016; thus a total of 15 students are working for PhD in the department. In addition, each faculty member guides MSc students for their project work which is a part of the MSc curriculum. Altogether 22 papers have been published by department faculty in the year 2015-2016. The department has organized training workshop and national seminars for teachers and students. Several faculty members have participated and/or presented their work in conferences, seminars and workshops of national and international status (annual report attached).
- ✓ The Department course structure has been specialized in the area of intelligent system. The department is involved in research and development activities in the area of speech and image processing, audio visual speech processing, big data analysis, network system security, data mining etc. We make the students to involve in the research activities in the above said areas.
- ✓ Research Forum
- ✓ One research project has been sanctioned by SERB. Guide ship sanctioned to four faculty members. Publications in high impact factor journals.
- ✓ Seminar, Field Works, Visit for data collection.
- ✓ We do have existing informal research collaborations, which will be utilized for future grant

6.3.5. Library, ICT and Physical infrastructure / instrumentation

- ✓ Reasonably good library with necessary text books are available both for reference and for issue. There are new additions to the library from time to time as per the requests of the faculty. However, scientific journals essential for the research and teaching work are yet to be subscribed. Department has good infrastructure with several sophisticated instruments such as UV-Vis and IR spectrophotometers, DSC-TGA analyser, CHNS analyser, Atomic absorption spectrophotometer, Spectrofluorimeter etc. along with several minor equipments necessary for teaching and basic research works. Students get hands-on training on various sophisticated instruments which improve their analytical skills. The instrument services are also made available to the sister departments of the university.
- ✓ The Department has a mini library with sufficient number of books and articles. Apart from research lab the department has a general computing lab and intelligent system lab.

6.3.6. Human Resource Management

University provide timely support & required resource for the department development & requirement. Working environment is extremely dynamic

6.3.7. Faculty and Staff recruitment

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6.3.8. Industry Interaction / Collaboration

Faculty members have several national and international collaborations as listed below:

National	International
IISER, Trivandrum	SABIC Technology & innovation Centre, Saudi Arabia
IOCL R&D	The Hebrew University of Jerusalem, Isreal
CECRI-Karaikudi	Korean Institute of Energy Research Korea
IICT-Hyderabad	
Mahatma Gandhi University	
NCL-Pune	
IIT-Bombay, Mumbai	
St. Joseph College, Kerala	

The Department maintains contacts with eminent personalities from academic and industrials.

6.3.9. Admission of Students

PG admission is through CUCET and PhD admission is through DET. Students with research fellowship from various agencies such as UGC, CSIR, DST (INSPIRE) etc. can also join for research when the PhD admissions are notified. All the Ph.D. admission finally process through DRC based on their interview performance.

Through CUCET

Number of seats has been Increased & Counselling of the students & Induction Programme.

6.4 Welfare schemes for

Teaching	
Non-Teaching	
Students	NET & Civil service coaching

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done. Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes			
Administrative			Yes	CUK

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

For UG Programmes Yes No

For PG Programmes Yes No

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

Current system involves external evaluation which is delaying the publication of results

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

6.11 Activities and support from the Alumni Association

- ✓ Alumni feedback are taken in to consideration in curriculum revision
- ✓ The Department alumni meeting has been conducted on 24 – 09 - 2016.
- ✓ Yes, maintain contact with Alumni regularly through social media network

6.12 Activities and support from the Parent – Teacher Association

- ✓ Feedback from parent are collected and grievances/issues are addressed accordingly
- ✓ The Department has conducted parent teacher meeting on 24 – 09 – 2016 and discussed about the progress of the department.
- ✓ Yes, meeting is conducted in every year.

6.13 Development programmes for support staff

- Training workshop was conducted by the department for teachers and staff (5-day Training Programme in Sophisticated Analytical Instruments, 11-15 January 2016)
- Staff attended IT training programme and FTS-training programme conducted by the university

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

- ✓ The department has efficient waste management in the sense that organic/inorganic and plastic-paper wastes are collected separately and handed over to the industry for recycling
- ✓ The department design lab experiments (example: green experiments) and practices that require smaller quantities of chemicals (for example semi micro and micro scale experiments) and thus ensure minimal levels of laboratory waste to be disposed of.
- ✓ As part of ecofriendly campus the Department started gardening and planted banana tree
- ✓ Rearing Plants with eco- friendly approach Waste disposal (Dust bin)
- ✓ Agricultural initiatives by the Department of Education
- ✓ Undertook Organic farming on a plot adjacent to the rented building of the University at Vidyanagar, Kasaragod.

Criterion – VII

7. Innovations and Best Practices

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

- ✓ Best Practices: Hands on training to MSc students with major and minor analytical equipments
- ✓ During the academic year the Department has organized a workshop on Enjoyable Programming. The program was really useful and provides an impact on participants to how to maintain a stress free life even during the busy academic schedule.
- ✓ Induction Ceremony at the Department level
- ✓ Opportunities for High School Students for Research

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

- ✓ According to the year's action plan, the department has revised MSc curriculum, conducted PhD admissions for the year 2016 and purchased several minor equipments required for teaching and basic research.
- ✓ Organized International Workshop on Enjoyable Programing
- ✓ Celebrated National Science Day.
- ✓ Conceived and executed organic farming
- ✓ Organised talks by eminent personalities from within and outside the country
- ✓ An International Symposium on 21st Century Indian Political Documentary Films was organised from 14-16 February 2017.
- ✓ Typing & Designing of MA Dissertations by students themselves. All students are skilled in Hindi Typing.

7.3 Give two Best Practices of the institution

- (i) In the revised syllabus, proposal has made on industrial visit as part of curriculum
- (ii) Teaching structural chemistry with the help of paper model

The faculty members have the practice of going to school once in a year for providing then training in Computer Science.

****Provide the details in annexure (annexure need to be numbered as i, ii,iii)***

7.4 Contribution to environmental awareness / protection

- Green campus program was conducted in RSTC campus on 26.07.2015
- Department faculty participated in tree planting activity conducted in Periyar Campus
- Paperless assignments
- A modest initiative in organic farming
- Organised a nature camp on July 2016
- A Model United Nations on the Theme Human Right to Water October 2016
- HarithaBhoomika 2017

7.5 Whether environmental audit was conducted?

Yes No

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

8. Plans of institution for next year

Department feels that library services such as subscription of E-journals/purchase of additional reference books/ and other E-learning resources should be initiated with immediate effect. Research lab facility for the faculty (not available yet) are very essential for successful implementation of MSc and PhD research projects.

Strengths:

- Highly aspiring students from diversified background.
- Access to the national database like Prowess, Census. NSSO, ASI etc.
- Well-equipped computer lab facilities with statistical packages for advanced econometric research.
- Experienced and competent faculty.

Weakness:

- Lack of collaborative research.
- So far no collaborations with industry, professional and government bodies.
- Lack of sufficient infrastructure and supporting system.

Opportunities

- Social and cultural diversity of the students.
- Collaboration with academic, professional and government bodies.
- Offer interdisciplinary courses and research.
- Become a benchmark for post graduate learning and research in economics in India.

Challenges

- Catering the needs of a heterogeneous group.
- Motivating and equipping the students with the changing conditions.

S: Faculty with international exposure

W: Lack of physical infrastructure – Functioning in a rented building

O: Resourceful faculty and motivated students

T: Getting academically challenged students to cope with the heavy syllabus and advanced mode of curriculum transaction

Strengths are:

1. Multidisciplinary faculty and students
2. International research collaboration of the faculty
3. Adequate infrastructure for teaching
4. Collaboration with health institutes at National, State and local level
5. A supportive and proactive university administration

Weaknesses are:

1. Early stage
2. Limited student enrolment
3. Physical location of the department

Opportunities

1. Located in an under developed/ under researched area, which has a potential for community based research programs of public health relevance
2. Developing a cadre of public health professionals from the northern part of Kerala
3. To address the health problems of the locale by providing community health services

Challenges

1. Supporting and facilitating the growth in its nascent stage
2. Attracting the creamy layer of students and in-service health professionals.
3. After program job placement of MPH graduates

- ✓ Establish interdisciplinary research with sister departments (Physics, biochemistry, environmental science etc). Establish national and international collaborative research. Apply for UGC-SAP, DST-FIST programmes of funding for the department.
- ✓ During the academic year 2017 – 18 the Department is having plan to organize international and national level programlike conference, workshop and lectures. The Department has already submitted proposal for the approval of conducting a national level workshop in collaboration with KSCSTE and an international conference. As part of the extension program we have planned the technological adoption of the Marthoma School for Hearing Impaired, Cherukkala, Kasaragod. The representatives of the faculty and ASCI forum have already visited the school and organized some programs. Now we are in the process of planning further action to be undertaken for technological support
- ✓ Set up 3 New Centres under the Department: Centre for Theory and Criticism, Centre for Cinema and Screen Studies and Centre for Translation Studies.
- ✓ To publish more, revise the curriculum and organize more seminars and invited lectures. To organize periodic training sessions for taking the UGC NET examination.
- ✓ We aim to transform the department to a centre of excellence in public health teaching, research and practice.
- ✓ We will utilize the existing national/international collaborations to bring in research projects.
- ✓ We will facilitate community based health initiatives in Periyee and in Kasargod as a whole

Prof (Dr) M.N. Mohamedunni -
Name: *Alias Musthafa*



Signature of the Director, IQAC

डॉ. एम.एन. मोहम्मदुनी - मुख्तफा
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