



A Q A R

ANNUAL QUALITY ASSURANCE REPORT

2017-18

INTERNAL QUALITY ASSURANCE CELL (IQAC)
UNIVERSITY OF KERALA



CONTENTS

	Page No.
1. Introduction	..... 2
2. Objective	..... 2
3. Strategies	..... 2
4. Functions	..... 3
5. Benefits	..... 3
6. Composition of the IQAC	..... 4
7. The role of coordinator	..... 5
8. Operational Features of the IQAC	..... 5
9. Revised Accreditation Framework	..... 6
10. Mandatory Submission of AQAR by IQAC	..... 6
11. The Annual Quality Assurance Report (AQAR)	..... 7
 Part – A	
11. Details of the Institution	..... 7
12. IQAC Composition and Activities	..... 19
 Part – B	
13. Criterion – I: Curricular Aspects	..... 22
14. Criterion – II: Teaching, Learning and Evaluation	..... 25
15. Criterion – III: Research, Innovations and Extension.	..... 32
16. Criterion – IV: Infrastructure and Learning Resources	..... 65
17. Criterion – V: Student Support and Progression	..... 67
18. Criterion – VI: Governance, Leadership and Management	..... 76
19. Criterion – VII: Institutional Values and Best Practices	..... 84
20. Abbreviations	..... 87

Guidelines for the Creation of the Internal Quality Assurance Cell (IQAC) and Submission of Annual Quality Assurance Report (AQAR) in Accredited Institutions

Introduction

In pursuance of its Action Plan for performance evaluation, assessment and accreditation and quality up-gradation of institutions of higher education, the National Assessment and Accreditation Council (NAAC), Bangalore proposes that every accredited institution should establish an Internal Quality Assurance Cell (IQAC) as a quality sustenance measure. Since quality enhancement is a continuous process, the IQAC will become a part of the institution's system and work towards realisation of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. For this, during the post-accreditation period, institutions need to channelize its efforts and measures towards promoting the holistic academic excellence including the peer committee recommendations.

The guidelines provided in the following pages will guide and facilitate the institution in the creation and operation of the Internal Quality Assurance Cell (IQAC). The work of the IQAC is the first step towards internalization and institutionalization of quality enhancement initiatives.

Its success depends upon the sense of belongingness and participation in all the constituents of the institution. It will not be yet another hierarchical structure or a record-keeping exercise in the institution. It will be a facilitative and participative voluntary system/unit/organ of the institution. It has the potential to become a vehicle for ushering in quality enhancement by working out planned interventionist strategies by IQAC to remove deficiencies and enhance quality like the "Quality Circles" in industries.

IQAC – Vision

To ensure quality culture as the prime concern for the Higher Education Institutions through institutionalizing and internalizing all the initiatives taken with internal and external support.

Objective

The primary aim of IQAC is

- To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
- To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Strategies

IQAC shall evolve mechanisms and procedures for

- a) Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks;

- b) Relevant and quality academic/ research programmes;
- c) Equitable access to and affordability of academic programmes for various sections of society;
- d) Optimization and integration of modern methods of teaching and learning;
- e) The credibility of assessment and evaluation process;
- f) Ensuring the adequacy, maintenance and proper allocation of support structure and services;
- g) Sharing of research findings and networking with other institutions in India and abroad.

Functions

Some of the functions expected of the IQAC are:

- a) Development and application of quality benchmarks
- b) Parameters for various academic and administrative activities of the institution;
- c) Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process;
- d) Collection and analysis of feedback from all stakeholders on quality-related institutional processes;
- d) Dissemination of information on various quality parameters to all stakeholders;
- e) Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles;
- f) Documentation of the various programmes/activities leading to quality improvement;
- g) Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;
- h) Development and maintenance of institutional database through MIS for the purpose of maintaining /enhancing the institutional quality;
- i) Periodical conduct of Academic and Administrative Audit and its follow-up
- j) Preparation and submission of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC.

Benefits

IQAC will facilitate / contribute to

- a) Ensure clarity and focus in institutional functioning towards quality enhancement;
- b) Ensure internalization of the quality culture;
- b) Ensure enhancement and coordination among various activities of the institution and institutionalize all good practices;
- c) Provide a sound basis for decision-making to improve institutional functioning;
- d) Act as a dynamic system for quality changes in HEIs;
- e) Build an organised methodology of documentation and internal communication.

Composition of the IQAC

IQAC may be constituted in every institution under the Chairmanship of the Head of the institution with heads of important academic and administrative units and a few teachers and a few distinguished educationists and representatives of local management and stakeholders.

The composition of the IQAC may be as follows:

1. Chairperson: Head of the Institution
2. Teachers to represent all level (Three to eight)
3. One member from the Management
4. Few Senior administrative officers
5. One nominee each from local society, Students and Alumni
6. One nominee each from Employers /Industrialists/Stakeholders
7. One of the senior teachers as the coordinator/Director of the IQAC

The composition of the IQAC will depend on the size and complexity of the institution, accordingly the representation of teachers may vary. It helps the institutions in planning and monitoring. IQAC also gives stakeholders or beneficiaries a cross-sectional participation in the institution's quality enhancement activities. The guidelines given here are only indicative and will help the institutions for quality sustenance activities.

The membership of such nominated members shall be for a period of two years. The IQAC should meet at least once in every quarter. The quorum for the meeting shall be two-third of the total number of members. The agenda, minutes and Action Taken Reports are to be documented with official signatures and maintained electronically in a retrievable format.

It is necessary for the members of the IQAC to shoulder the responsibilities of generating and promoting awareness in the institution and to devote time for working out the procedural details. While selecting these members several precautions need to be taken. A few of them are listed below:

- ♦ It is advisable to choose persons from various backgrounds who have earned respect for integrity and excellence in their teaching and research. Moreover, they should be aware of the ground realities of the institutional environment. They should be known for their commitment to improving the quality of teaching and learning.
- ♦ It is advisable to change the co-ordinator after two to three years to bring new thoughts and activities in the institution.
- ♦ It would be appropriate to choose as senior administrators, persons in charge of institutional services such as library, computer center, estate, student welfare, administration, academic tasks, examination and planning and development.
- ♦ The management representative should be a person who is aware of the institution's objectives, limitations and strengths and is committed to its improvement. The local society

representatives should be of high social standing and should have made significant contributions to society and in particular to education.

The role of the Coordinator

The role of the coordinator of the IQAC is crucial in ensuring the effective functioning of all the members. The coordinator of the IQAC may be a senior/competent person with experience and exposure in quality aspects. She/he may be a full-time functionary or, to start with, she/he may be a senior academic /administrator entrusted with the IQAC as an additional responsibility. Secretarial assistance may be facilitated by the administration. It is essential that the coordinator may have sound knowledge about the computer, data management and its various functions such as usage for effective communication.

Operational Features of the IQAC

Quality assurance is a by-product of ongoing efforts to define the objectives of an institution, to have a work plan to achieve them and to specify the checks and balances to evaluate the degree to which each of the tasks is fulfilled. Hence devotion and commitment to improvement rather than mere institutional control is the basis for devising procedures and instruments for assuring quality. The right balance between the health and growth of an institution needs to be struck. The IQAC has to ensure that whatever is done in the institution for “education” is done efficiently and effectively with high standards. In order to do this, the IQAC will have to first establish procedures and modalities to collect data and information on various aspects of institutional functioning.

The coordinator of the IQAC will have a major role in implementing these functions. The IQAC may derive major support from the already existing units and mechanisms that contribute to the functions listed above. The operational features and functions discussed so far are broad-based to facilitate institutions towards academic excellence and institutions may adapt them to their specific needs.

The institutions need to submit yearly the Annual Quality Assurance Report (AQAR) to NAAC by end of September every year positively. A functional Internal Quality Assurance Cell (IQAC) and timely submission of Annual Quality Assurance Reports (AQARs) are the Minimum Institutional Requirements (MIR) to volunteer for second, third or subsequent cycle’s accreditation. During the institutional visit the NAAC peer teams will interact with the IQACs to know the progress, functioning as well as quality sustenance initiatives undertaken by them.

The Annual Quality Assurance Report (AQAR) may be the part of the Annual Report. The AQAR shall be approved by the statutory bodies of the HEIs (such as Syndicate, Governing Council/Executive Council/Board of Management) for the follow up action for necessary quality enhancement measures.

The IQACs may create its exclusive window tab on its institutional website for keeping the records/files of NAAC, Peer Team Reports, AQAR, and Certificate of Accreditation Outcomes and regularly upload/ report on its activities, as well as for hosting the AQAR.

Revised Accreditation Framework

NAAC has launched Revised Accreditation Framework since July, 2017 and hence AQAR format also modified, in cognizance with the new methodology. The tools and parameters are designed in the new AQAR format are in such a way that the preparation of AQAR would facilitate the HEI's for upcoming cycles of Accreditation. Data collected/prepared infuses quality enhancement measures undertaken during the years. Further, it also adds quality enhancement and quality sustenance measures undertaken in teaching, learning, research, extension and support activities of the Institution. It is hoped that new AQAR would facilitate Educational Institutions for creating a good database at Institutional level for enhancing the quality culture.

As per the Revised Accreditation Framework (RAF), the NAAC Accredited institutions need to submit the AQAR online. NAAC is in the process of ICT integration in Assessment and Accreditation. The login id for the online submission for AQAR submission will be the e-mail id used for the IIQA. The AQAR submission is part of the post accreditation module, in due course of time. NAAC portal will have the facility to submit the AQAR online and Institutions will receive automated response. AQAR of the preceding year be submitted to the NAAC within six months i.e. the institutions should submit the AQAR before 31st December of every year.

The Higher Education Institutions need not submit the printed/hard copy of AQAR to NAAC.

Mandatory Submission of AQAR by IQAC

The Executive Committee of NAAC has decided that **regular submission of AQARs is mandatory for 2nd and subsequent cycles of accreditation with effect from 16th September 2016:**

The following are the pre-requisites for submission of IIQA for all Higher Education Institutions (HEIs) opting for 2nd and subsequent cycles of A& A:

- Having a functional IQAC.
- The minutes of IQAC meeting and compliance to the decisions should be uploaded on the institutional website.
- Mandatory submission of AQARs on a regular basis for institutions undergoing the second and subsequent cycles of Assessment and Accreditation by NAAC.
- Upload the AQAR's on institutional website for access to all stakeholders.

Note: The terms and abbreviation used in AQAR are in accordance with respective manuals for assessment of NAAC. Please refer institutional manual for glossary and abbreviations terms used in AQAR.

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF IQAC, UNIVERSITY OF KERALA

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. *The AQAR period would be the Academic Year. (For example, July 1, 2017 to June 30, 2018)*

Part – A

Data of the Institution

1. Name of the Institution: University of Kerala

- Name of the Head of the institution : Dr. V. P Mahadevan Pillai
- Designation : Vice Chancellor
- Does the institution function from own campus : Yes
- Phone no./Alternate phone no. : 0471-2306634/2386250
- Mobile (Vice-Chancellor) : 9400946909
- Registered Email : regrku@gmail.com
- Alternate Email : registrar@keralauniversity.ac.in
- Address : Senate House Campus, Palayam,
Thiruvananthapuram, Kerala
- City/Town : Thiruvananthapuram
- State/UT : Kerala
- Pin Code : 695034

2. Institutional Status:

- University: State/Central/Deemed/Private : State
- Type of Institution: Co-education/Men/Women : Co-education
- Location : Rural/Semi-urban/Urban : Urban
- Financial Status: Centrally/State/Private funded : State funded
- Name of the IQAC Co-ordinator/Director : Prof. Dr. Gabriel Simon Thattil
- Phone no. /Alternate phone no. : 0471-2303013
- Mobile : 9496275305
- IQAC e-mail address : team.iqac@gmail.com
- Alternate Email address : simon.thattil@gmail.com

3. Website address : <https://www.keralauniversity.ac.in/>

Web-link of the AQAR: (Previous Academic Year) :
https://iqac.keralauniversity.ac.in/docs/V21_AQAR_2016_new.pdf

4. Whether Academic Calendar prepared during the year? : Yes

If yes, whether it is uploaded in the Institutional website : Yes

Web link: <https://www.keralauniversity.ac.in/academic-calendar>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	B++	81.5	2003	from: 21.03.2003 to 20.03.2008
2 nd	A	3.03	2015	from: 03.03.2015 to 02.03.2020

6. Date of Establishment of IQAC : 10.05.2005

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Meeting of IQAC	01.07.2017	12
Meeting of IQAC	18.09.2017	12
Meeting of IQAC	27.12.2017	20
Meeting of IQAC	24.04.2018	17
Ranked 30 th in the University level & 47 th in Overall category of National Institute of Ranking Framework (NIRF) on 208	2018	-
Energy Audit	August 2017- July 2018	23
Faculty Development Programme on ‘Improving Teaching and Assessment’	15-07-17 to 22-07-17	56
‘Green Squads’ to monitor the implementation of green charter	-	-
Workshop on “Examination Reforms and Automation of Examination Wing”	May 2018	118
UGC-NET coaching classes	June 2018	Above 100
A comprehensive Academic Handbook has been compiled and issued to all newly admitted PG students	-	-
Research Handbook has been compiled and issued for Research Scholars and M. Phil scholars in the same lines as the Academic Handbook	-	-
Student feedback system practise in place.	2017-2018	-
Student orientation for Additional Skill Acquisition Programme (ASAP)	15-09-2017	77
Awareness Programme on “Patentability and Legal Procedures”	22-11-2017	82

Note: Some Quality Assurance initiatives of the institution are:

(Indicative list)

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- Academic Administrative Audit (AAA) conducted and its follow up action
- Participation in NIRF
- ISO Certification
- NBA etc.
- Any other Quality Audit

8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Sl.No.	Institution/ Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
1	Department of English	Special Assistance Programme(SAP-DRS-I)	UGC	2018 (2009-2014-reimbursement basis for the expenditure already incurred to the project fellows)	Rs.1,30,133/-
2	Department of English	Special Assistance Programme(SAP-DRS-II)	UGC	2018 (1-4-2015 to 31-3-2020)	Rs.12,88,726/-
3	Department of Mathematics	Special Assistance Programme(SAP-DRS-II)	UGC	2017 (1-4-2013 to 31-3-2018)	Rs.6,90,000/-
4	Department of Geology	Special Assistance Programme(SAP-DRS-II)	UGC	2017 (1-4-2013 to 31-3-2018)	Rs.40,28,000/-
5	Dr Sabu Joseph, Department of Environmental Sciences, University of Kerala	“Environmental isotope investigation to assess the surface water- groundwater interactions in Karamana River Basin, Kerala with emphasis on water pollution at the lower reaches”	DAE- BRNS	31/05/2016 3 years	Rs.4,29,244/- 2 nd instalment

6	Dr. Manoj Changat Department of Futures Studies, University of Kerala	“Transit Functions Betweenness and Community Structures”	DAE	17/11/2014 2 years	Rs. 4,29,570 /- 2 nd instalment
7	Dr. Anil Chandran S. Department of Demography University of Kerala	“Multi-Dimensional Research on Population Ageing in Kerala (MUDRA) – Kerala”	ICSSR	16/08/2016 18 months	Rs.2,00,000/- 1 st instalment
8	Dr. Soumya S. J. SIUCGGT, Department of Biotechnology University of Kerala	“Nanomaterials based biosensing for detecting hypoxia and induction of angiogenesis”	SERB	31/05/2016 3 years	Rs. 10,20,000/- 2 nd instalment
9	Dr. A. Helen Department of Biochemistry University of Kerala	“Anti or Pro- Inflammatory Effects of Dietary Pulses”	ICMR	23/01/2017 3 years	Rs. 7,98,000/- 2 nd instalment Rs.5,88,000/- 3rd instalment
10	Dr. Saja K. Department of Biochemistry University of Kerala	“Dietary fat related histone modifications relevant to inflammation”	SERB	02/12/2014 3 years	Rs. 6,00,000/- 3rd installment
11	Dr. Subodh G. Department of Physics University of Kerala	“Functional magneto-dielectric materials for microwave applications”	KSCSTE SRS	28/09/2017 3 years	Rs.13,10,200/- 1 st instalment
12	Dr. Subodh G. Department of Physics	“Glass Free Magneto – Dielectric Materials for LTCC applications”	SERB	24/06/2016 3 years	Rs.2,50,000/- 2 nd instalment
13	Dr. K. Padmakumar Department of Aquatic Biology and Fisheries University of Kerala	“Evaluating Costs and Benefits of Prophylactic Health Products and Novel Alternatives on Smallholder Aquaculture Farmers in Asia and Africa (IMA Qulate)”	DBT	19/12/2017 3 years	Rs. 73,83,025/- 1 st instalment
14	Dr. K. Padmakumar Department of Aquatic Biology and Fisheries University of Kerala	“Development of Alternative Sustainable Fish Feeds to Promote Human Health Using Novel Non- Conventional	DBT	19/12/2017 3 years	Rs. 45,59,094/- 1 st instalment

		Indigenous Ingredients			
15	Dr. A. Gangaprasad Department of Botany University of Kerala	“Production and supply of Quality Seedlings of selected Medicinal Plants”	SMPB	28/11/2017 1 year	Rs.1,50,000/- 1 st instalment
16	Dr. P M Radhamany Department of Botany University of Kerala	“Studies on the Molecular mechanisms of Self incompatibility in Ananas comosus (L.)Merr”	SERB	23/02/2018 3 years	Rs. 9,00,000/- 1 st instalment
17	Dr. E A Siril Department of Botany University of Kerala	“Collection, Characterization and Propagation of Garcinia gummi - gutta(L.) Robs”	KSCSTE	04/11/2017 3 years	Rs. 8,20,700/- 1 st instalment
18	Dr. Salom Gnana Thanga.V., Department of Environmental Sciences University of Kerala	“Studies on the impact of repeated pesticide application on soil microbial activity and screening of organo phosphorus pesticide degrading bacteria”	DoE&CC	07/12/2013 3 years	Rs.37,945/- final instalment
19	Dr. Josukutty C.A. Department of Political Science University of Kerala	“Pre-Poll Bye Election Survey in Chengannur Constituency”	The Institute of Parliamentary Affairs, Government of Kerala	12/04/2018	Rs. 40,000/- 1 st instalment
20	Dr. Linda Koshy Vaidyan IUCG> Department of Biotechnology University of Kerala	“MicroRNAs in Essential Hypertension: Understanding the role of SNPs in miRNA binding sites in 3'UTRs of target candidate genes influencing blood pressure”	SERB	13/05/2014 3 years	Rs.1,88,485/- final instalment
21	Dr. Achuthsankar S. Nair, Department of Computational	“Creation of Bioinformatics Infrastructure Facility (BIF)” for	DBT	22/9/2006 long term project	Rs.9,93,800/- grant in aid for the financial year 2017-18

	Biology and Bioinformatics University of Kerala	the promotion of Biology Teaching Through Bio-Informatics (BTBI) Scheme of BTISnet has been implemented in the Department of Computational Biology and Bioinformatics, University of Kerala, Kariavattom			
22	Dr. Sreejith P. Department of Zoology University of Kerala	“Evaluate the disruption of cholesterol homeostasis on hair follicle cycling and stem cell function in alopecia”	DHR	25/04/2018 3 years	Rs. 15,86,000/- 1 st instalment
23	Dr. Arun A. Rauf, Department of Biochemistry University of Kerala	“Biocomposite based orthopedic implants from shrimp waste and marine algae”	DBT	28/09/2012 3 years	Rs. 2,01,600/- balance of revised emolument
24	Dr. C. Satheesh Kumar Department of Statistics University of Kerala	MATRICES Scheme-project entitled “A Study on Certain Hyper -Poisson Related Distributions”	SERB	28/05/2018 3 years	Rs. 2,20,000/- 1 st instalment
25	Dr. Annie Abraham Department of Biochemistry University of Kerala	"Orthopedic Tissue Engineering-Repair Injured Rabbit tendon"	ICMR	28/03/2018 3 years	Rs.10,70,600/- 1 st instalment
26	Dr. Sameer Babu M. Department of Education University of Kerala	“Technological scaffold to visually challenged students at Higher Secondary level in Kerala”	Centre for Disability Studies (CeDS)	10/05/2018 1 year	Rs. 2,00,000/- 1 st instalment
27	Dr. T.S. Swapna Department of Botany University of Kerala	“Bioprospecting, Barcoding and in vitro culture for sustainable utilization of two selected RET listed medicinal plants Piper barberi and Smilax wightii ”	SERB	05/06/2018 3 years	Rs.18,11,950/- 1 st instalment

28	Dr. Sabu Joseph, Environmental Sciences	Major Research Project	UGG	3 years w.e.f 01.07.2012	Rs. 58,913/-
29	Dr. A. Abdul Salim, Economics,	Major Research Project	UGC	3 years w.e.f 01.07.2015	Rs. 2,86,400/- (2nd instalment)
30	Dr. S. Sharafudeen, Islamic Studies,	Minor Research Project	UGC	18 months w.e.f 01.02.2011	Rs. 41,384/- (Final installment)
31	Centre for Womens Studies	"Development of Women's Studies in Indian Universities and Colleges" during XII Plan	UGC	reimbursement for the years 2012-13, 2013- 14, 2014-15 & 2015-16	Rs. 8,07,639/-
32	Dr. S.V. Sudheer, Director	Human Resource Development Centr	UGC	for the financial year 2017-18.	Rs. 10,00,000/-
33	Dr. Suresh R, Political Science	Major Research Project	UGC	3 years w.e.f 01.07.2015	Rs. 2,94,400/- (2nd instalment)
34	Dr. P. Jeyakrishnan, Tamil	Major Research Project	UGC	2 years w.e.f 01.02.2011	Rs. 44,154/- (Final instalment)
35	Dr. Ajit Govind, Geology	Faculty Recharge Programme.	UGC	24 th March 2015	Rs. 28,00,114/- Difference of Salary w.e.f. 24.03.2015 to 31.03.2017 and Advance salary w.e.f. 01.04.2017 to 14.03.2018
36	Dr. S.V. Sudheer, Director	Human Resource Development Centr	UGC	courses during 2017-18.	Rs. 10,00,000/-
37	Dr. A. BijuKumar , Aquatic Biology and Fisheries	Major Research Project	UGC	3 years w.e.f 01.02.2009	Rs.54,172/- (Final installment)
38	Dr. Jyothi Kumari, Geology	Faculty Recharge Programme.	UGC	9 th July 2014	Rs. 8,09,100/- Advance Salary- 01.04.2017 to 31.03.2018
39	Dr. S.V. Sudheer, Director	Human Resource Development Centr	UGC		Rs.12,50,000/-
40	Dr. Bindu R. Nair, Botany	Major Research Project	UGC	3 years w.e.f 01.02.2009	Rs.51,930/- (Final

					installment)
41	Centre for Canadian Studies under Area Study Programme			Grant-in-aid for 2017-18	Rs. 5,06,160/- [General component] and Rs.1,06,560/- [S C component]
42	Dr. Salom Gnana Thanga V, Environmental Sciences	Major Research Project	UGC	3 years w.e.f 01.07.2012	Rs. 58,429/- (Final installment)
43	Dr. Bindu. P, Psychology	Minor Research Project	UGC	18 months w.e.f 01.07.2012	Rs. 12,001/- (Final installment)
44	Dr. S.R.Sheeja, School of Distance Education	Major Research Project	UGC	3 years w.e.f 01.07.2015	Rs. 3,04,400/- (2nd instalment)
45	Dr. S.V. Sudheer, Director	Human Resource Development Centre	UGC	grant for the year 2015-16	Rs.29,01,488/-
46	Dr. P Yageen Thomas , Statistics	Emeritus Scientist Scheme KESS 2015	KSCSTE	01.01.2016	Rs.68,828/- arrear and balance amount of the enhanced fellowship
47	Dr. K. Mohanan, Department of Chemistry	Emeritus Scientist Scheme	KSCSTE	30.10.2014	Rs. 55,203/- arrear and balance amount of the enhanced fellowship
48	Dr. P Yageen Thomas , Statistics	Emeritus Scientist Scheme KESS 2015	KSCSTE	01.01.2016	Rs. 5,91,494/- (3rd year grant)
49	Dr. M. Indira (Retd.), Biochemistry -	Emeritus Scientist Scheme KESS 2015	KSCSTE		Rs. 6,88,168/- (3rd year grant)
50	Linguistics	Scholar in Residence Programme Under Erudite Scheme involving Dr. Niladri Sekhar Dash	KSHEC	2017 07/08/17 to 09/08/17	Rs. 44,093/-

51	Archaeology	Scholar in Residence Programme Under Erudite Scheme involving Prof. Jonathan Mark Kenoyer	KSHEC	2017 22/08/17 to 28/08/17	Rs. 3,38,517/-
52	Geology	Scholar in Residence Programme Under Erudite Scheme involving Dr. Thomas Oommen	KSHEC	2017 18/09/17 to 22/09/17	Rs.2,17,282/-
53	Geology	Scholar in Residence Programme Under Erudite Scheme involving Prof. William M White	KSHEC	2017 09/10/17 to 14/10/17	Rs.2,19,804/-
54	Futures Studies	Scholar in Residence Programme Under Erudite Scheme involving Prof. Mitre Costa Dourado	KSHEC	2017 23/10/17 to 02/11/17	Rs. 2,46,400/-
55	Geology	Scholar in Residence Programme Under Erudite Scheme involving Prof. Nicholas Arndt	KSHEC	2017 25/11/17 to 03/12/17	Rs. 1,95,796/-
56	Education	Scholar in Residence Programme Under Erudite Scheme involving Dr. Mohamad Sattar Bin Rasul	KSHEC	2017 30/10/17 to 03/11/17	Rs. 1,36,850/-
57	Arabic	Scholar in Residence Programme Under Erudite Scheme involving Dr. Manal (M.H) S Najjar	KSHEC	2018 15/01/18 to 26/01/18	Rs. 1,70,100/-
58	Futures Studies	Scholar in Residence Programme Under Erudite Scheme involving Dr. Peter F Stadler	KSHEC	2018 22/01/18 to 03/02/18	Rs. 2,59,744/-
59	Futures Studies	Scholar in Residence Programme Under Erudite Scheme involving Dr. Kalliat Valsaraj	KSHEC	2017 02-01-2018 to 08-01-2018	Rs. 2,14,471/-

60	Aquatic Biology & Fisheries	Scholar in Residence Programme Under Erudite Scheme involving Dr. Yoram Avnimelech	KSHEC	2018 05.03.2018 to 10.03.2018	Rs. 1,30,200/-
61	Aquatic Biology & Fisheries	Scholar in Residence Programme Under Erudite Scheme involving Dr. Tomoyuki Komai	KSHEC	2018 18/02/18 to 23/02/18	Rs. 1,47,385/-
62	Environmental Sciences	Scholar in Residence Programme Under Erudite Scheme involving PD.Dr. Tim Jennerjahn	KSHEC	2017 08/01/18 to 17/01/18	Rs. 2,52,413/-
63	Statistics	Scholar in Residence Programme Under Erudite Scheme involving Prof. Hira Lal Koul	KSHEC	2018 05/02/18 to 16/02/18	Rs. 2,22,667/-
64	Mathematics	Scholar in Residence Programme Under Erudite Scheme involving prof. Pascal Weil	KSHEC	2018 22/01/18 to 27/01/18	Rs. 1,51,547/-
65	Botany	Scholar in Residence Programme Under Erudite Scheme involving Dr. Joseph Chappel	KSHEC	2018 13/02/18 to 16/02/18	Rs.1,58,760/-
66	Botany	Scholar in Residence Programme Under Erudite Scheme involving Prof. Jennifer Ann Harikrishna	KSHEC	2018 16/01/18 to 19/01/18	Rs. 1,10,040/-
67	Political Sciences	Scholar in Residence Programme Under Erudite Scheme involving Prof. Manas Ray	KSHEC	2017 05/12/17 to 15/12/17	Rs.1,08,500/-
68	Zoology	Scholar in Residence Programme Under Erudite Scheme involving Prof. Desmond J Tobin	KSHEC	2018 25/06/18 to 02/07/18	Rs. 1,68,000/-
69	Geology	Scholar in Residence	KSHEC	2018	Rs. 1,40,210/-

		Programme Under Erudite Scheme involving Prof. Dr. Ing. Franz. Josef Behr		05/03/18 to 10/03/18	
70	Chemistry	Post Doctoral Fellowship under Back to Lab Programme of women Scientist Division in respect of Dr. Sandhya V Satheesh, Post Doctoral Fellow	KSCSTE	2013 3 Years	Rs.44,301/- (overhead charges)
71	Bio- Chemistry	Post Doctoral Fellowship under Back to Lab Programme of women scientist Division in respect of Dr. Aswathy I S, Post Doctoral Fellow	KSCSTE	2015 3 Years	Rs.7,02,491/- (3 rd year grant & arrears of 2 nd year)
72	Aquatic Biology & Fisheries	Best Paper Award 2015 in respect of Dr. Abhijna U G, Post Doctoral Fellow	KSCSTE	2015 2 Years	Rs.50,000/- (2 nd year contingent grant)
73	Environmental Sciences	Societal Research Fellowship in respect of Dr. Anju A Kumar, Societal Research Fellow	DST	2015 2 Years	Rs.3,50,000/- (2 nd year instalment)
74	Bio-technology	Post Doctoral Fellowship in respect of Dr. B Krishnakumar, Post Doctoral Fellow	KSCSTE	2016 2 Years	Rs.4,72,126/- (2 nd year grant)
75	Bio-technology	Post Doctoral Fellowship in respect of Dr. Anju K M, Post Doctoral Fellow	KSCSTE	2016 2 Years	Rs.83,600/- (fellowship arrears for the period from 13.06.2016 to 31.01.2017)
76	Sociology	Post Doctoral Fellowship in respect of Dr. Lekshmi Chandran,	ICSSR	2017 2 Years	Rs.1,42,400/- (2 nd instalment of 1 st year)

		Post Doctoral Fellow			Rs.71,200/- (3 rd instalment of 1 st year) Rs.1,42,400/- (1 st instalment of 2 nd year)
77	Geology	Post Doctoral Fellowship in respect of Dr. Vishnu Mohan S, Post Doctoral Fellow	KSCSTE	2017 2 Years	Rs.4,72,400/- (2 nd year grant)
78	Computational Biology & Bio-Informatics	Special Post Doctoral Fellowship in respect of Dr. Ambily Nath I V, Post Doctoral Fellow	KSCSTE	2017 2 Years	Rs.4,55,596/- (2 nd year grant)
79	Zoology	Post Doctoral Fellowship in respect of Dr. Arya Nandan, Post Doctoral Fellow	KSCSTE	2017 2 Years	Rs.4,72,400/- (2 nd year grant)
80	Optoelectronics	National Post Doctoral Fellowship in respect of Dr. Viji Vidyadharan, Post Doctoral Fellow	SERB	2017 2 Years	Rs.11,00,000/- (1 st instalment of grant)
81	Physics	National Post Doctoral Fellowship in respect of Dr. Anooja J Babu, Post Doctoral Fellow	SERB	2017 2 Years	Rs.11,00,000/- (1 st instalment of grant)
82	Zoology	Post Doctoral Fellowship in respect of Dr. Sunitha S S, Post Doctoral Fellow	KSCSTE	2017 3 Years	Rs.7,52,400/- (1 st instalment of 1 st year grant)
83	Bio-technology	National Post Doctoral Fellowship in respect of Dr. Sajeesh Kappachery, Post Doctoral Fellow	SERB	2017 2 Years	Rs.9,60,000/- (1 st instalment of grant) Rs.9,10,000/- (2 nd instalment of grant)
84	Botany	Post Doctoral Fellowship for unemployed women category in respect of Dr. Mariamma Cherian, Post Doctoral Fellow	UGC	2012 5 years	Rs.3,00,383/- (5 th year grant)

85	Computer Science	Approved course “Advanced Digital Video Coding Standards” under GIAN programme co-ordinated by Dr. Madhu S Nair, Assistant Professor	MHRD	2017 1 st to 12 th January 2018	Rs.8,16,000/-
86	Geology	Approved course “Computational Geosciences : Data to Information to Decision (176005C02)” under GIAN Programme co-ordinated by Dr. Sajin Kumar K S, Assistant Professor	MHRD	2018 2 nd to 6 th July 2018	Rs.5,44,000/-
87	University of Kerala	Rashtriya Uchcharat Shiksha Abhiyan (RUSA) Scheme	MHRD Fund ratio – 65:35 (Centre: State)	2015	Rs.4,32,29,167 /-
88	Physics	Research Award 2016-18 in respect of Dr. Antony S, Research Awarded.	UGC	2016 2 Years	Rs.11,38,174/- (2 nd year research grant & salary)
89	Prof. M. C. Subhash Peter, Dean of Science and Hon. Director, School of Life Sciences	Travel Grant	UGC	03-10-2017	Rs.102845/-
90	Department of Arabic	Publication Grant	UGC	28-03-2018	Rs.16000/-
91	Department of Sociology	Publication Grant	UGC	31-03-2018	Rs.11893/-

9. Whether composition of IQAC as per latest NAAC guidelines : **Yes**

*upload latest notification of formation of IQAC: <https://iqac.keralauniversity.ac.in/members.php>

10. No. of IQAC meetings held during the year : **Four**

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website: Yes, <https://iqac.keralauniversity.ac.in/meetings.php>

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? : **No**

12. Significant contributions made by IQAC during the current year (maximum five bullets)

- Conducted Energy Audit at Karyavattom campus for the period from August 2017 to July 2018
- Conducted Two day Faculty Development Programme on ‘Improving Teaching and Assessment’
- Formation of ‘Green Squads’ to monitor the implementation of green charter of the University
- Conducted Workshop on “Examination Reforms and Automation of Examination Wing – May 2018
- Conducted UGC-NET coaching classes jointly by Researchers Union, University of Kerala during June 2018

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Interaction with eminent scholars	Invited Prof. Takashi Aseda of Saitama university, Japan
Workshop on examination reforms	Development of Student Life Cycle Management System And Strengthening of Examination Wing of the University
UGC- NAAC Workshop on Quality Assessment and Accreditation	Provided Support to over 119 Colleges In The Accreditation Process With Support from UGC and NAAC
Workshop on research methods in social sciences	75 researchers in social sciences benefitted out of three day workshop
UGC-NET Coaching for PG Students	120 students participated and 24 students cleared
Creation of Talent Bank	Initiated
Induction Program for first semester PG program students and parents	Over 800 students benefitted
Workshop on Research Methodology and Data Analytics	88 Research scholars participated

14. Whether the AQAR was placed before statutory body? : **Yes**

Name of the statutory body: Place before Syndicate Date of meeting(s): 20-12-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning? : **Yes**

- Prof. S.C.Sharma, Director, NAAC, Dr. M. S. Shyamsundar, Adviser, NAAC, Dr. Shyam Singh Inda, Assistant Adviser, NAAC, Dr. Vinita Sahu, Assistant Adviser, NAAC visited IQAC, University of Kerala on 15-10-2018
- Dr. G. Srinivas, Joint Secretary and Head, UGC visited IQAC, University of Kerala on 15-10-2018
- Prof. M. Channa Basavaiah, Honorary Director, ICSSR-SRC, Hyderabad visited IQAC, University of Kerala on 24-11-2018

16. Whether institutional data submitted to AISHE : **Yes**

Year: 2017-2018 Date of Submission: 04-03-2018

17. Does the Institution have Management Information System : **Yes**

If yes, give a brief description and a list of modules currently operational.
(Maximum 500 words)

Examination

- Online submission of application for different examinations, downloading of hall tickets
- Online availability of question papers, tabulation of marks

KU finance employee's portal

- Online direct payment of salary
- PF credit cards
- Leave details
- Income tax TDS filing

Student portal

- Student admission, payment of fees, choice of courses, choice of SWAYAM course under MOOC

Research portal

- Online submission of application and synopsis
- Choice of research guides
- Choice of research centres
- Research fellowships
- Course work

Part-B

CRITERION I – CURRICULAR ASPECTS		
1.1 Curriculum Design and Development		
1.1.1 Programmes for which syllabus revision was carried out during the Academic year		
Name of programme	Programme Code	Dates of revision
M.Sc. AQUATIC BIOLOGY & FISEHERIES		6.4.2018
M.A. ARABIC		6.4.2018
M.A. ARCHAEOLOGY		6.4.2018
M.Sc. BIOCHEMISTRY		6.4.2018
M.Sc. BIOTECHNOLOGY		6.4.2018
M.Sc. GENETICS AND PLANT BREEDING		6.4.2018
M.Sc. CHEMISTRY		6.4.2018
M.Com		6.4.2018
MCJ		6.4.2018
M.Sc. COMPUTATIONAL BIOLOGY		6.4.2018
M.Sc. COMPUTER SCIENCE		6.4.2018
M. Tech COMPUTER SCIENCE WITH SPECIALIZATION IN DIGITAL IMAGE COMPUTING		6.4.2018
M.Sc. DEMOGRAPHY & BIOSTATISTICS		6.4.2018
M.Sc. ACTUARIAL SCIENCE		6.4.2018
M.A. ECONOMICS		6.4.2018
M.Ed.		6.4.2018
M.A. ENGLISH		6.4.2018
M.Sc. ENVIRONMENTAL SCIENCE		6.4.2018
M.Sc. GEOLOGY		6.4.2018
M.A. GERMAN		6.4.2018
M.A. HINDI		6.4.2018
M.A. HISTORY		6.4.2018
M.A. ISLAMIC HISTORY		6.4.2018
L.L.M.		6.4.2018
M.A. TAMIL		6.4.2018
M.Sc. ZOOLOGY		6.4.2018
M.Sc. MATHEMATICS		6.4.2018
M.Sc. STATISTICS		6.4.2018
M.A. LINGUISTICS		6.4.2018
M.A. MALAYALAM		6.4.2018
M.A. MUSIC		6.4.2018
M.A. PHILOSOPHY		6.4.2018
M.A. SOCIOLOGY		6.4.2018
MSW		6.4.2018
M.Sc. PHYSICS		6.4.2018
M.A. POLITICAL SCIENCE		6.4.2018
M.Sc. PSYCHOLOGY		6.4.2018
M.A. SANSKRIT		6.4.2018
M.A. RUSSIAN		6.4.2018
M.B.A.		6.4.2018
M.B.A. - TOURISM		6.4.2018

M.L.I.Sc.		6.4.2018	
M. Tech TECHNOLOGY MANAGEMENT		6.4.2018	
M.Sc. INTEGRATIVE BIOLOGY		6.4.2018	
M. Tech in ELECTRONICS AND COMMUNICATION (Optoelectronics & Optical Communication)		6.4.2018	
1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction
		Basic French for beginners	15-11-2017
M.A Program		Programme in Agro-Economics	
Yoga and Meditation		Certificate in Yoga and Meditation	A. March 2018 B. April 2018 C. August 2018
		Teacher's Training Certificate in Yoga and Meditation	October 2018
		P.G. Diploma in Yoga Therapy (2 batches)	January-December 2018
Skill Development Programmes		Skill Development for students belonging to SC/ST and Minority Community	2018
Counselling		P.G. Diploma in Counselling Psychology (2 batches)	January-December 2018
		Programmes- a. Personal and Telephone Counselling	January-December 2018
		b. Pre-Exam Counselling Sessions for Higher Secondary students (covering 14 Districts of the State)	24 th and 25 th February 2018
		c. Telephone Counselling to the Higher Secondary students (Post Exam, Pre Result and Post Result)	April / May 2018
		d. Psycho Social Care services for the Flood affected victims in Pathanamthitta and Alappuzha Districts	23.08.2018 and 27.08.2018
		e. Follow-Up Counselling to the Flood affected victims in Pathanamthitta District	30.09.2018
		Training programme for Counsellors for the Psycho Social Intervention for Flood affected victims	22.08.2018
		Seminar on Parapsychology	06.01.2018
		Seminar on Suicide and Suicide Prevention in connection with the observance of Suicide prevention Day	09.09.2018
		Seminar on Jail Reforms and Counselling	16.12.2018
Bridge Course		P.G. Certificate in Criminology and Criminal Justice Administration	June 2018 Special Paper Introduction to

			Legal Process
Mentoring		Continuing Education Courses for Prisoners – First of its kind in India	January 2018 onwards (continuing)
		Internship and Block Placements of Continuing Education Courses	January 2018 – December 2018
		Extension programme conducted in association with Cotton Hill Old Teachers ‘and Students’ Association (COTSA) for the students of Cotton Hill GHSS, TVPM	January 2018- December 2018

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
<u>INTERNAL ELECTIVE</u> Methods in Research Radioactivity and Radiation Biology Tissue Engineering Developmental Biology Pharmaceutical Biochemistry <u>ADDITIONAL SKILL ACQUISITION COURSES</u> Laboratory Animal Experimentation Effective Scientific Communication <u>ONLINE COURSE</u> Radiation Biology and Countermeasures (Biochemistry)	2017 onwards

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
Already adopted (mention the year) M. Phil Nano-Science					

1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
Malayalam Journalism	July 2016	24
<u>Additional Skill Acquisition Courses</u> Laboratory Animal Experimentation Effective Scientific Communication <u>Online Course</u> Radiation Biology and Countermeasures (Biochemistry)	2017	-
Certificate course in human rights and duty education	2017	25
PG diploma in human rights		28
PG diploma in medical law ethics and human rights (LAW)		25

1.3.2 Field Projects / Internships under taken during the year	
Project/Programme Title	No. of students enrolled for Field Projects / Internships
Economics	8
Clinical internship (Psychology)	15
Media internship(MCJ)	20
Influence of heavy metal AgNo ₃ on organ cultures of Dianthus chinensis L.	1
Influence of heavy metal CoCl ₂ on organ cultures of Dianthus chinensis L.	1
Effect of CoCl ₂ on flavonoid production in Dianthus chinensis L. callus cultures	1
Internship training on Plant Tissue Culture & Molecular Biology	20
Short term training on Plant Tissue Culture & Molecular Biology	8
Short Term Projects	3
Associate ships	3
Video conferencing for Telemedicine Application(CS)	1
Traffic Detection using Convolution Neural Network(CS)	1
Snake Classification using CNN(CS)	1

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	yes	yes	Yes	No

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

IQAC collected feedback from the third semester students of all 42 teaching departments in the university of Kerala with the objectives of collecting necessary inputs from students to improve the courses offered by the university. Students expressed their opinion regarding 15 different criteria in a 10 point scale. 15 criteria include 1.overall assessment of the course 2.motivation by the teacher 3.fairly equal treatment of the students 4.interesting assignments 5.encouragement to ask questions 6.valuation and return of assignments 7.general perspectives apart from syllabus 8. Multimedia presentation 9. Using smart class room 10.suggestion of web resources 11.availability of books in the department library 12.explanation of objectives of the course 13.course brochure 14. Involvement 15.recommendation to the junior students
Feedback from teachers , employers and alumni sought through IQAC interactions

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
M.Sc. AQUATIC BIOLOGY & FISEHERIES	11	99	11
M.A. ARABIC	15	63	6
M.A. ARCHAEOLOGY	12	135	12
M.Sc. BIOCHEMISTRY	14	289	12

M.Sc. BIOTECHNOLOGY	10	440	10
M.Sc. GENETICS AND PLANT BREEDING	12	392	12
M.Sc. CHEMISTRY	15	894	15
M.Com	25	470	25
MCJ	20	303	20
M.Sc. COMPUTATIONAL BIOLOGY	10	28	4
M.Sc. COMPUTER SCIENCE	30	182	26
M. Tech COMPUTER SCIENCE WITH SPECIALIZATION IN DIGITAL IMAGE COMPUTING	18	22	18
M.Sc. DEMOGRAPHY & BIOSTATISTICS	12	76	10
M.Sc. ACTUARIAL SCIENCE	10	78	10
M.A. ECONOMICS	25	322	25
M.Ed.	35	64	5
M.A. ENGLISH	25	1126	25
M.Sc. ENVIRONMENTAL SCIENCE	10	383	10
M.Sc. GEOLOGY	10	170	10
M.A. GERMAN	13	22	3
M.A. HINDI	20	83	18
M.A. HISTORY	20	291	19
M.A. ISLAMIC HISTORY	10	21	1
L.L.M.	20	149	20
M.A. TAMIL	20	21	1
M.Sc. ZOOLOGY	10	521	10
M.Sc. MATHEMATICS	25	646	20
M.Sc. STATISTICS	15	462	14
M.A. LINGUISTICS	20	121	7
M.A. MALAYALAM	15	197	15
M.A. MUSIC	10	12	2
M.A. PHILOSOPHY	20	80	2
M.A. SOCIOLOGY	20	224	15
MSW	30	573	24
M.Sc. PHYSICS	18	837	18
M.A. POLITICAL SCIENCE	25	229	25
M.Sc. PSYCHOLOGY	18	275	15
M.A. SANSKRIT	15	30	3
M.A. RUSSIAN	10	8	
M.L.I.Sc.	20	131	15
M. Tech TECHNOLOGY MANAGEMENT	18	14	12
M.Sc. INTEGRATIVE BIOLOGY	10	62	9
M.Tech in ELECTRONICS AND COMMUNICATION (Optoelectronics & Optical Communication)	18	43	18
2.2 Catering to Student Diversity			
2.2.1. Student - Full time teacher ratio (current year data)			

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017-18	NA	552	NA	174	174 (PG Only)

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
174	174	Computer lab, LCD projector, INFLIBNET, Wi-Fi, Laptop, internet, smart board	39	39	INFLIBNET, SPSS package, UGC-INFONET, Video lectures of NPTEL, MIT, Research Papers from IEEE, Springer, Elsevier used. Referred MOOCs, Web2.0 tools multimedia package, smart class room

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes, The scheme is adapted for the value additions to the students and the strategies envisaged can be broadly classified under three categories –

1. Departmental

- Creation of a better environment in the department, wherein students can approach teachers for both educational and personal guidance
- Enhancement of knowledge base for both teachers and students alike, through effective two-way communication
- Creating awareness of policies of the Department and professional expectations from students
- Creating awareness of the roles of support staff and routine procedures

2. Personal

- Bridging the gap between the teachers and students
- Providing professional and personal guidance, on an individual basis
- Devising methods to fine tune individual skills of students

3. Career Development

- Awareness and support to students for higher education and employment
- Motivation for higher studies and entrepreneurship
- Advice and support for improvement in academic performance

- Providing opportunities for attending professional meetings

Ongoing process:

- Regular meetings are held between mentor and mentee
- A report card is maintained for each student
- The report card has both personal and academic data
- Students are allowed to approach the mentor for both academic & personal problems
- Personalized professional /career advice is given to the mentee

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1244 (Including Research scholars)	174	1:4

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with PhD
291	174	117	-	162

2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2017	Dr. Swapna T.S	Associate Professor, Department of Botany	Best Women Scientist Award in Botany, by PEARL Foundation Educational Excellence Awards
2017	Dr. M. Kamarudeen Kunju	Associate Professor, Department of Botany	Best Biodiversity Conservation Practices Award by PEARL Foundation Educational Excellence Award
2017	Dr. Sreejith Parameswara Panicker	Assistant Professor, Dept. of Zoology	Dept of Health Research International Fellowship at University of Manchester, UK
2017	Dr. K.S. Chandrashekar	Director, IMK	MTC Global award for the Outstanding contribution to Management Education, Bangalore

2017	Dr. A. Gangaprasad	Assistant Professor, Department of Botany	Dr. S. Vasudev Award
2017	Dr. Madhu S. Nair,	Asst Prof., Dept. of Computer Science	Distinguished Assistant Professor Award from Computer Society of India (CSI), Mumbai
2017	Sajin Kumar K.S.,	Assistant Professor, Dept. of Geology	UGC Raman Post-Doctoral Fellowship and carried out the work at Michigan Technological University, USA
2018	Dr. K. S. Chandrasekar	Professor &Head, IMK	Dewang Mehta National award for Best Professor in Management
2017	Dr. K. S. Chandrasekar	Professor &Head, IMK	MTC Global award for the Outstanding contribution to Management Education
2017	M S Swapna and S. Sankararaman	Associate professor, Dept. of Botany , Professor & Head, Dept. of Botany	Best Paper Award in the 27th Swadeshi Science Congress, Amrita University
2017	S Manjusha, Preethi S Babu, C Beryl, M J Anitha and S Sankararaman		Best Paper Award in the National conference on recent trends in Engineering and Technology, Trinity College, Trivandrum
2018	Dr. C. R. Prasad	Professor, Dept. of Malayalam	Devan Mehta award for Best Malayalam Professor

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester / year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
M.Sc. Aquatic Biology And Fisheries			23.4.2018	20.6.2018
M.A. Arabic			23.4.2018	29.6.2018
M.A. Archaeology			20.4.2018	1.6.2018
M.Sc. Actuarial Science			23.4.2018	26.6.2018
M.Sc. Bio-Chemistry			23.4.2018	29.6.2018
M.Sc. Biotechnology			23.4.2018	30.6.2018

M.Sc. Botany			23.4.2018	30.6.2018
M.Sc. Chemistry			27.4.2018	26.6.2018
M.Com.			25.4.2018	26.6.2018
MCJ. (Communication And Journalism)			23.4.2018	13.8.2018
M.Sc. Computer Science			18.04.2018	27.6.2018
M.Sc. Computational Biology			28.05.2018	27.6.2018
M.Sc. Demography			25.4.2018	30.6.2018
M.A. Economics			30.4.2018	26.6.2018
M.Sc. Environmental Sciences			23.4.2018	30.6.2018
M.Ed.			25.4.2018	30.6.2018
M.Sc. Geology			23.4.2018	27.6.2018
M.A. German			27.4.2018	20.6.2018
M.A. Hindi			23.4.2018	26.6.2018
M.A. History			25.4.2018	29.6.2018
M.A. English Lang. & Lit.			25.4.2018	27.6.2018
MBA(Tourism)			20.7.2018	5.10.2018
MBA (General)			30.7.2018	5.10.2018
M.A. Islamic Studies			23.4.2018	20.6.2018
M.Sc. Integrative Biology			25.4.2018	30.6.2018
MLISc. (Library & Information Science)			27.4.2018	30.6.2018
M.A. Linguistics			25.4.2018	27.6.2018
LLM.			06.8.2018	Result not published
M.A. Malayalam			02.5.2018	26.6.2018
M.Sc. Mathematics			25.4.2018	26.6.2018
M.A. Music			20.4.2018	13.6.2018
M.A. Philosophy			23.4.2018	22.6.2018
M.Sc. Physics			20.4.2018	27.6.2018
M.A. Political Science			23.4.2018	26.6.2018
M.Sc. Psychology			25.4.2018	20.8.2018
M.A. Sanskrit			20.4.2018	13.6.2018
M.A. Sociology			25.4.2018	27.6.2018
MSW			25.4.2018	15.9.2018
M.Sc. Statistics			27.4.2018	30.6.2018
M.A. Tamil			25.4.2018	29.6.2018
M.Sc. Zoology			23.4.2018	30.6.2018

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

*Do not include re-evaluation/ re-totalling : NIL

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
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NIL

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the web link)

<https://www.keralauniversity.ac.in/downs>

2.6.2 Pass percentage of students				
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
	M.Sc. Aquatic Biology and Fisheries	11	11	100%
	M.A. Arabic	13	12	92%
	M.A. Archaeology	11	11	100%
	M.Sc. Actuarial Science	5	4	80%
	M.Sc. Bio-Chemistry	15	15	100%
	M.Sc. Biotechnology	11	11	100%
	M.Sc. Botany	11	11	100%
	M.Sc. Chemistry	14	12	86%
	M.Com.	25	24	96%
	MCJ. (Communication And Journalism)	18	17	94%
	M.Sc. Computer Science	25	25	100%
	M.Sc. Computational Biology	8	8	100%
	M.Sc. Demography	4	3	75%
	M.A. Economics	23	20	87%
	M.Sc. Environmental Sciences	11	10	91%
	M.Ed.	18	16	89%
	M.Sc. Geology	10	10	100%
	M.A. German	3	3	100%
	M.A. Hindi	18	17	94%
	M.A. History	19	19	100%
	M.A. English Lang. & Litt.	25	22	88%
	MBA(Tourism)	17	17	100%
	MBA (General)	40	40	100%
	M.A. Islamic Studies	5	3	60%
	M.Sc. Integrative Biology	10	10	100%
	MLISc.(Library & Information Science)	19	9	47%
	M.A. Linguistics	9	9	%
	LLM.	Result not published (one year course)		
	M.A. Malayalam	14	13	93
	M.Sc. Mathematics	25	17	8%
	M.A. Music	3	3	100%
	M.A. Philosophy	9	7	78%
	M.Sc. Physics	18	18	100%
	M.A. Political Science	23	20	87%
	M.Sc. Psychology	15	14	93%
	M.A. Sanskrit	2	2	100%
	M.A. Sociology	16	13	81%
	MSW	28	25	89%
	M.Sc. Statistics	15	14	93%
	M.A. Tamil	13	12	92%

	M.Sc. Zoology	10	10	100%
2.7 Student Satisfaction Survey				
2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as web link) https://iqac.keralauniversity.ac.in/studentAnnualAudit.php				
CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION				
3.1 Promotion of Research and Facilities				
3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year				
	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	Dept. of Biochemistry	DST FIST	5 Years	DST Govt. Of India
National	Dr. C. Satheesh Kumar (Dept of Statistics)	Mathematical Research Impact Centric Support (MATRICS) scheme	28.05.2018	SERB (Department of Science and Technology, Government of India)
National	Antony Palackal	Best paper award	23-06-2017	ICT Academy, Kerala
International	Dr. P. Sreejith	Dept. of Health Research, Short term fellow ship	2017	Dept. of Health Research, Govt. of India
3.1.2 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year				
	Name of Research fellowship	Duration of fellowship	Funding agency	
	JRF(20)	5 years	UGC	
	JRF(12 students)	5 years	CSIR	
	PDF(2)	1 year	University	
	PDF(2 students)	3years	DST-SERB	
	University JRF(4)	5 Years	University	
	Moulana Azad Scholarship - 1	5 Years	UGC	
	KSCSTE JRF (2)	5 Years	KSCSTE	
	E-Grants JRF (2)	5 Years	Kerala state Govt. (SC/ST Development Department)	
	ICMR JRF (1)	3 Years	ICMR	
	DST-INSPIRE JRF (1)	5 Years	DST	
	PDF(1)	3 Years	KSCSTE	

3.2 Resource Mobilization for Research				
3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations				
Nature of the Project	Duration	Name of the funding	Total grant sanctioned	Amount received during

		Agency		the year
Major projects				
Dr. S. M. A. Shibli Dept. of Chemistry	2 years	KSCSTE	Rs.25 Lakhs	Rs.2,81,101
Major projects Swapna -Botany	3 years	SERB	3027446	-
Major projects-Dr. E. A. SIRIL, Department of Botany	2018-2021	KSCSTE	1847000	820200
Major projects-Dr. P.Sreejith, Department of Zoology	2018	MP fund	50 Lakhs	50 Lakhs
Major projects_- Dr.Radhamony - Botany	2018-2021	SERB	11,40,000	900000
Major projects- Dr. A Abdul salim, Dept of Economics	3 years	UGC	8,26,600	2,26,000
Dr.Achuthsankar – Dept.of computational Biology	1 Year	Govt of Kerala	1 Crore	NIL
Major projects: UGC-SAP DRS –II (English)	5 Yrs.	UGC-SAP	77,00,000/-	8,49,946/-
Major projects (EVS)	3 years	MoEF&CC	Rs28 Lakhs	Rs.16.5 Lakhs
Major projects(EVS)	3 years	DAE-BRNS	Rs. 27.19 Lakhs	Rs.4.29244 Lakhs
Major projects(Future studies)	2015-2018	NBHM-DAE	8,52,270	4,29,570
Major projects(Geology)	3	ISRO	18,51,000	--
Major projects(Geology)	2	KSCSTE	9,46,440	--
Major projects(Linguistics)	5y	UGC	1,92,00000/ -	1,03,30000/-
Major projects(Oriental Research Institute and Manuscripts Library)	3 Years	NMM	7 Lakhs / Year	5 Lakhs
Major projects(PS)	2 years 2016 – 2018	ICSSR	Rs 1500000	600000 294400
Major projects	1 year	University of Kerala	10 Lakhs	-
Major projects(PS)	3 years 2015- 2018	UGC	Rs 839600	294400
Major projects(Economics- SDE)	2015-2018	UGC	9.25 lakhs	Nil
Major projects(Sociology)	2 Years	University of Kerala	12 Lakhs	12 Lakhs
Major projects(Sociology)	2 Years	University of Kerala	5 Lakhs	5 Lakhs

Major projects(Sociology)	2 Years	University of Kerala	10 Lakhs	10 Lakhs
Major projects(Zoology)	3 Years	HRD Scheme, Dept. of Health Research Ministry of Health and Family Welfare	2891100	1586000/-
Major Projects (Physics)	2016-19	SERB	31.20	2.50
Major Projects (Physics)	2018-21	KSCSTE SRS	22.30	13.00
Major Projects (Physics)	2017-20	KSCSTE-SARD	31.50	30.75
Major Projects (Physics)	2017-19	SERB-NPDF	19.20	11
Minor Projects				
Minor Projects-Dr.Manju S Nair , Dept. of Economics (2017)	Two years	State Plan Fund	2,00,000	2,00,000
Minor Projects (2017-18)Dr.Manju S Nair , Dept. of Economics	One year	State Plan Fund, Kerala University	1,00,000	1,00,000
Minor Projects –Dr. V Anitha , dept. of Economics	6 months(A pril-September 2017)	Kerala Institute of Labour and Employment	300000	
Production of quality planting materials of selected medicinal plants for cultivation and ex situ conservation		State Medicinal Plant Board, Ayush Department, Govt. Of Kerala	1,50,000/-	1,50,000/-
Minor project – Education department	1 year	CeDS, Trivandrum	2,50,000	2,00,000
Minor Projects	3months	Institute of Parliamentary Affairs, Government of Kerala	Rs. 69000	Rs. 69000
Minor Projects	3 months	University of Kerala	1.7 lakhs	1.7 lakhs
Minor Projects	6 months	Kerala Institute of Labour and Employment (KILE)	3,00,000	3,00,000
Minor Projects(Physics)	2017-19	KSCSTE	3	1.5
Erudita Program	2018	KSHCE		2.6 Lakhs
Interdisciplinary Projects				
NIL				

Industry sponsored Projects				
Industry sponsored Projects Dr. S. M. A. Shibli Dept. of Chemistry	12 month(from 01/03/2017)+8 month extension	TATA STEEL LIMITED	11 lakhs	Rs.826000
Projects sponsored by the University I.Commerce	2017-18	University of Kerala	2400000	2400000
Projects sponsored by the University- Archaeology - Dr. Rajesh	1 Year	State Plan Fund	4000000	4000000
Projects sponsored by the University- Dr. V .Anitha, Dept. of Economics	One year(2017- 2018)	University of Kerala	300000	
Projects sponsored by the University(Linguistics)	1 year	University of Kerala	1000000	1000000
Students Research Projects				
(other than compulsory by the University)				
Swapna–Botany	1 year	KSCSTE	14,000	Students Research Projects (<i>other than compulsory by the University</i>)Swapna– Botany
Students Research Projects – Nano science	2 years	KSCSTE	1 lakh	NIL
International Projects				
Dr. Manju S. Nair, Dept of economics	2017	Norwegian Higher Education Department	5,29,450	5,29,450
(Dr.Manju S Nair, Dept of economics)	2017-2018	Norwegian Higher Education Department	5,80,000	5,80,000
International Projects(EVS)	3 years	UGC	64.5 lakhs	18.89 lakhs
International Projects	2 Yr	World Science Project, Louisiana State University	6,25,000	3,00,000
Any other(Specify)				
Consultation project	5 months	Nirbhaya cell, Ministry of Women & Child Development,	Rs 8,16,914	Rs 4,08,457

		Govt. of Kerala		
MATRICES scheme	3 Years	Department of Science and Technology, Government of India	6,60,000	2,20,000
Total				4,63,67,788
3.3 Innovation Ecosystem				
3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year				
Title of Workshop/Seminar		Name of the Dept.		Date(s)
National Workshop on IPR& Basics of Patency		Department of Botany		March 28,2018
Certificate Course on Agro ecology Action Research and Education: India Norway Collaboration		Department of Economics		1st June 2017-28th June 2017
Field Techniques in Geological Mapping		Geology		18-20 January 2018
National Workshop on Petrology		Geology		21-23 February 2018
National Seminar on “Official,Nationaland Classical languages in India -State and Scenario”		Department of Linguistics		07-09 March, 2018
National Workshop on Forensic Linguistics		Department of Linguistics		29-31 March, 2018
Malayala Sahithyavimarsanam Charithravazhikal		Dept of Malayalam		01 to 03 March 2017
Kerala- Society, History Culture		Dept of Malayalam		06 to 08 March 2018
International Seminar on “International seminar on “Regenerative Medicine and Chronic Degenerative Diseases & Role of Omics & Bio markers in Health”		Organised by: Department of Zoology, University of Kerala, Faculties under Science, University of Kerala, Society for Advancements in Regenerative Medicine Tissue Engineering and Stem Cell Research-India In Association with: General Hospital, Thiruvananthapuram,		March 9th, 10 &11th, 2018

		Government Medical College, Trivandrum		
		Medical College Alumni Association, IMA, Thiruvananthapuram		
3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year				
Title of the innovation	Name of the Awardees	Awarding Agency	Date of Award	Category
Best research paper	Kurian Mathew Abraham (aquatic biology)	Chief of army staff	8 th Feb. 2018	Co-author
Funding support to State Universities for Study and Research in indigenous and Endangered language in India	Dept. of Linguistics	University of Kerala	2018	Highest Research grant for Languages
Study of enhanced light harvesting by nanocarbon photon antennae aided leaf pigments	M S Swapna	27 th Swadeshi Science Congress, Amrita University	7-9 November 2017	Best paper award
Eco-friendly synthesis of refractory boron carbide for industrial applications,	H V Saritha Devi	30 th Kerala Science Congress, Govt. Brennan College, Thalassery	28-30 January 2018.	Best paper award
3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year				
Incubation Centre	Name	Sponsored by		
Nil	Nil	Nil		
Name of the Start-up	Nature of Start-up	Date of commencement		
MASSIVE DATA ANALYTICS	Student Start-up	July 2017		
WAGGLE LAB	Student Start-up	September 2017		
BIOVENT	KU-TBSC	December 2017		
SUKRUTHI	Student Start-up	July 2017		
3.4 Research Publications and Awards				
3.4.1 Ph. Ds awarded during the year				
Name of the Department		No. of Ph. Ds Awarded		
Commerce		9		
Computational Biology & Bioinformatics		4		
Institute of English		9		
Environmental Sciences		1		
Future Studies		3		

Department of Linguistics	3
Department of Political Science	4
Psychology	9
Economics (SDE)	1
Philosophy	1
Russian	2
Library and Information science	2
Education	4
Management Studies	4
Hindi	2
Malayalam	7
Sanskrit	7
Public Administration	4
Tamil	6
Arabic	2
Physical Education	2
History	2
Physics	1

3.4.2 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National	Commerce	13	
International		-	
National	Bio informatics	1	
International		7	
National	Aquatic biology	15	
International		11	
National	Archaeology	7	
International		10	
National	Bio chemistry	-	
International		23	
National	Botany	15	
International		18	
National	Chemistry	-	
International		26	
National	Computational Biology	1	0.883
International		4	2.32
National	Computer Science	-	
International		7	
National	Economics	6	
International		2	
National	Education	20	
International		-	
National	EVS	1	
International		16	
National	Future studies	4	
International		8	0.8
National	Geology	4	

International		6	
National	IMK	5	
International		2	
National	Journalism	5	
International		-	
National	Linguistics	1	
International		-	
National	Malayalam	4	
International		-	
National	Optoelectronics	-	
International		18	
National	Nano science	-	
International		17	2.13
National	Physics	1	
International		16	
National	Political Science	7	
International		1	
National	Psychology	10	
International		-	
National	English (SDE)	1	
International		-	
National	History(SDE)	5	
International		3	
National	Sociology	7	
International		8	
National	Statistics	10	
International		28	
National	Tamil	-	
International		-	
National	Zoology	-	
International		2	

3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
Commerce	7
Bio informatics	5
Aquatic biology & Fisheries	4
Archaeology	8
Computational Biology & Bioinformatics	3
Computer science	2
Economics	2
Future studies	7
IMK	1
Malayalam	4
Nano science	2
Oriental Research Institute and Manuscripts Library	1
Philosophy	1

Department of Political Science	5
Sociology	5

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
Invention of "Ayurvedic Product for Anti HCV activity of Boerhavia diffusa L." (Botany)	Filed	Application No. 201741043507	
Nano CeO ₂ -TiO ₂ composite incorporated Al-Zn alloy sacrificial anode with high resistance to corrosion and bio fouling	Filed	Application No.: 201741037131 A	
"Bio-inspired Controller for Finding Disjoint Paths in Software Defined Networks"	Filed	No. 201841017231	
Development of biodegradable films from Hibiscus rosa-sinensis Linn. (Malvaceae) mucilage based composites	Filed	Application No. 201841002624	
Methods for performance Enhancement in Excitonic Solar Cells by Plasmonic Blocking Layer	Applied	application No.201741032795	29.09.2017

3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Benchmark Dataset for whole Genome sequence Compression	Biji C.L and Achuthsan kar S.Nair	IEEE/ACM Transaction on Computational Biology & Bioinformatics	2017	N.A	Dept of Computational Biology University of Kerala	4
Review of texture descriptors for texture classification	Philomina Simon Uma V	Advances in Intelligent Systems and Computing	2018	Scopus	Department of Computer Science, University of Kerala	

Robust face recognition using sparse and dense hybrid representation with local correlation	Sahla Habeeba, M.A., Simon, P., Prajith, R.	Communications in Computer and Information Science	2018	Scopus	Department of Computer Science, University of Kerala	-
Vanishing Point Based Lane Departure Warning Using Template-Based Detection and Tracking of Lane Markers	Kumar A.M., Simon P., Kavitha R.	Advances in Intelligent Systems and Computing	2017	Scopus	Department of Computer Science, University of Kerala	
Survey on Text Summarization Methods	Kanitha D K D. Muhammad Noorul Mubarak. S.A. Shanavas	International Journal of Computer Engineering & Technology (IJCET)	2018	Advances in Intelligent Systems and Computing	Department of Computer Science, University of Kerala	
Issues in Malayalam Text Summarization.	Kanitha D K D. Muhammad Noorul Mubarak. S.A. Shanavas	International Journal of Applied and Advanced Scientific Research (IJAASR)	2018		Department of Computer Science, University of Kerala	
Anti-proliferative effects of <i>Boerhavia diffusa</i> on human hepatocellular carcinoma cell line- Hep G2	Juna Beegum GR, Suhara Beevy S & Sugunan V.S.	Abrahamia - An International Journal of Plant Sciences	2017		Dept. Of Botany, University of Kerala	
Neutraceutical evaluation of <i>Boerhavia diffusa</i> L.	Juna Beegum GR, Suhara Beevy S	International Journal of Current Pharmaceutical Research	2017		Dept. Of Botany, University of Kerala	
Morphology, Structure and Distribution of Floral Trichomes in <i>Coccinia grandis</i> (L.) Voigt. (Cucurbitaceae)	Raseena N. R. & Suhara Beevy S.	International Journal of Agriculture, Environment and Biotechnology	2018		Dept. Of Botany, University of Kerala	
Auxin and	Saranyakri	Physiology	2017		Department	2

nutritional stress coupled somatic embryogenesis in <i>Oldenlandia umbellata</i> L.	shnan, S.R and Siril, E.A.	and Molecular Biology of Plants			nt of Botany, University of Kerala	
Evaluation of variability in <i>Lawsonia inermis</i> L. using morphological and biochemical markers	Shiji P.C. and Siril E.A.	Int. J. Adv. Res. 5(6): 2252-2265	2017		Departme nt of Botany, University of Kerala	2
Elicitor mediated adventitious root culture for the large-scale production of anthraquinones from <i>Oldenlandia umbellata</i> L.	Saranyakri shnan, S.R and Siril, E.A.	Industrial Crops & Products 114: 173–179 (Elsevier Publ. IF 3.577)	2018	-	Departme nt of Botany, University of Kerala	1
Elite screening and in vitro propagation of <i>Tinospora cordifolia</i> (Willd.) Miers ex Hook F. & Thoms.	Sruthy K. Pillai and Siril, E.A.	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. https://doi.org/10.1007/s40011-018-0971-3 (Springer Publ IF 0.35)	2018	-	Departme nt of Botany, University of Kerala	-
Assessment of free radical scavenging activity and polyphenolic content in leaves of <i>Neurocalyx calycinus</i> (R. Br. ex Benn.) Rob. - a medicinal plant used by Cholanaickan tribe in India	Aneeshku mar AL , Suja SR, Siril, E.A. and Rajasekha ran SR (2017)	Journal of Traditional and Folk Practices 05(2): 3 - 20. ISSN 2278 – 5906, https://doi.org/10.25173/jtftp.2017.5.2.69	2017	-	JNTBGRI	-
Morphological Variability of Aerial Vegetative Characters among 20 Shatavari (<i>Asparagus racemosus</i> Willd.) Collections from Kerala, India.	Chithra M.G. and Siril E.A.	Journal of Root Crops, 42(2): 21-32	2017	-	Departme nt of Botany, University of Kerala	-
GC-MS Analysis	Lakshmi	<i>International</i>	2017	-	Departme	-

of the chloroform extract of bark of <i>Terminalia travancorensis</i> Wight. and Arn. (Combretaceae)	M and Bindu RN	<i>Journal of Pharmaceutical Science and research</i> 8(2): 794-798 E-ISSN:0975-8232; P-ISSN:2320-5148			nt of Botany, University of Kerala	
Internal transcribed spacer (ITS) sequence analysis of nuclear ribosomal DNA (nrDNA) in <i>Averrhoa</i> L.	Soumya SL and Bindu RN	<i>International Journal of current research</i> 9(1): 45353-45359 ISSN:0975-833X	2017	-	Department of Botany University of Kerala	-
Floral volatiles in <i>Biophytum</i> DC. (Oxalidaceae)	Sreeshma LS and Bindu RN	<i>International Journal of Pharma and Biosciences</i> 8 (2): 385-390 ISSN:0975-6299	2017	-	Department of Botany University of Kerala	-
Assessment of bast fibre quality in two species of <i>Abelmoschus</i> Medik. (Malvaceae)	Bindu RN & Chitrangini PV	<i>Abrahamia</i> 3(2): 165-170. ISSN:2395-4108	2017	-	Department of Botany University of Kerala	-
Reproductive biology of <i>Eleutherine bulbosa</i> (Miller) Urban (Iridaceae):	Manjula KK and Bindu RN	<i>The International Journal of Plant Reproductive Biology</i> 10 (1):52-58	2018	-	Department of Botany University of Kerala	-
Molecular docking studies using sinigrin and Tamoxifen	Lakshmi S.Pillai and Bindu RN	<i>Journal of Pharmacognosy and Phytochemistry</i> 7 (2):3217-3221 E-ISSN: 2278-4136 P-ISSN: 2349-8234	2018	-	Department of Botany University of Kerala	-
A study on the antioxidant and antibacterial potential of the mucilage isolated from <i>Hibiscus rosa</i>	Vignesh RM and Bindu RN	<i>Journal of Pharmacognosy and Phytochemistry</i> 7 (2): 1623-1637 E-ISSN:	2018	-	Department of Botany University of Kerala	-

<i>sinensis</i> Linn. (Malvaceae)		2278-4136 P- ISSN: 2349- 8234				
Development and characterization of mucilage from the leaves of <i>Hibiscus rosa sinensis</i> Linn. (Malvaceae)	Vignesh RM and Bindu RN	<i>IJCRT</i> ISSN:2320-2882	2018	-	Department of Botany University of Kerala	-
Genetic fingerprinting of two species of <i>Averrhoa</i> L. Using RAPD and SRAP markers	Soumya S.L. and Bindu RN	Agricultural research DOI 10.1007/s40003-018-0339-1 ISSN 2249-720X	2018	-	Department of Botany University of Kerala	-
Extraction and characterization of mucilage from the leaves of <i>Hibiscus rosa sinensis</i> Linn. (Malvaceae)	Vignesh RM and Bindu RN	<i>International Journal of Pharmaceutical Sciences and research</i> 9(7):1000-09 E-ISSN:0975-8232, P-ISSN: 2320-5148	2018	-	Department of Botany University of Kerala	-
<i>In vitro</i> root induction - an improved system for production and elicitation of colchicine from <i>Gloriosa superba</i> L.	T S Swapna and G S Nikhila	Indian Journal of Experimental Biology	2018	-	University of Kerala	
Antioxidant activity in leaves of <i>Sesbania grandiflora</i> (L.) Pers.,	Pradeesh S and Swapna T. S	Asian Journal of Pharmaceutical and Clinical Research	2018	-	University of Kerala	
Phytochemical Profiling and the Antibacterial Potential of <i>Smilax wightii</i> A.DC. Against Selected 1032 Human Pathogenic Bacteria,	Athira V Anand and T. S. Swapna	Trends in Biosciences	2018	-	University of Kerala	
Protein Profiling Alteration in Response to Heavy Metal Accumulation in	M. Devi Chinmayee, G. Sangeetha, G.S.	Trends in Biosciences	2018	-	University of Kerala	

Alternanthera sessilis 1038 R Br. With Special Reference to Metallothionein	Nikhila, I. Mini, and T.S. Swapna					
Anticancerous Potential of In vivo and In vitro Developed Roots of <i>Pseudarthria viscidiflora</i> (L.) 1320 Wight & Arn	Sangeetha G. and Swapna T. S,	Trends in Biosciences	2018	-	University of Kerala	
Partial Genomic Sequencing of Phytochelatin Involved in Heavy Metal Tolerance of <i>Amaranthus spinosus</i> L.,	Mary Sheeba A, Mahesh B, Remakant Han A, Swapna T S and Mini I	Trends in Biosciences	2018	-	University of Kerala	
Anticancer potential of <i>Bidens biternata</i> (Lour.) Merr. & Sheriff – An Ethno Medicinal Plant of 1394 Wayanadu District of Kerala,	Pradeesh S and Swapna T. S	Trends in Biosciences	2018	-	University of Kerala	
Preliminary Analysis of Nutritional factors in the Rhizome of <i>Anaphyllum wightii</i> Schott. ,	Lekshmi. S and T.S. Swapna	Trends in Biosciences	2018	-	University of Kerala	
Orchid diversity of northeast india- Traditional knowledge and strategic plan for conservation,	A S Ninawe and T S Swapna	J.Orchid Soc. India.,	2017	-	University of Kerala	
Enzymatic and non-enzymatic antioxidants in tribal leafy vegetable <i>Bidens biternata</i> (Lour.) Merr. & Sheriff,	Pradeesh S & T S Swapna	Journal of Medicinal and Aromatic Plant Sciences	2017	-	University of Kerala	
“Our Stories are Our Roots’: Interview with Lee	B. Hariharan	<i>Littcrit</i>	2017	---	---	NOT RELEVANT

Maracle and Columpa Bobb.”						
Denitrification rates in estuarine sediments of Ashtamudi, Kerala, India	SalomGna naThanga Vincent	Environmental Monitoring and Assessment	2018		University of Kerala	
A baseline study on the concentration of trace elements in the surface sediments off Southwest coast of Tamil Nadu, India.	SalomGna naThanga Vincent	Marine Pollution Bulletin	2018	-	University of Kerala	1
Occurrence and activity of sulphate reducing bacteria in selected estuarine sediments of South Kerala, India.	SalomGna naThanga Vincent	International Journal of Ecology and Environmental Sciences	2018	-	University of Kerala	
Predominant terminal electron accepting process during organic matter degradation : spatio-temporal changes in Ashtamudi estuary, Kerala, India	SalomGna naThanga Vincent	Estuarine Coastal and Shelf Science	2017	-	University of Kerala	1
Geochemistry and microbial population of soil samples in different sites of clay mining area, Thiruvananthapuram, Kerala, India	SalomGna naThanga Vincent	Global Journal of Current Research.	2017	-	University of Kerala	
Assessment of soil erosion in a tropical mountain river basin of southern Western Ghats, India using RUSLE and GIS.	Jobin Thomas, Sabu Joseph , Thrivikra maji, K.P	Geoscience Frontiers	2018	2	University of Kerala	
Assessment of soil erosion in a monsoon dominated mountain river	Jobin Thomas, Sabu Joseph , Thrivikra	Hydrological Sciences Journal	2018	-	University of Kerala	

basin in India using RUSLE-SDR and AHP	maji, K.P					
Appraisal of nutrient distribution in the surface water and bed sediments of a small mountainous river.	Prince George, Sabu Joseph	Environmental Monitoring and Assessment	2017		University of Kerala	
Integrated approach for identifying factors controlling groundwater quality of a tropical coastal zone in Kerala, India.	Majusree, T.M., Sabu Joseph , Marco Petitta and Jobin Thomas	Jour. Env. Earth Sciences.	2017		University of Kerala	
Heavy metal monitoring and health risk assessment of a tropical mountaineous river in Kerala, India.	Prince George, Sabu Joseph and Sheela A mosses	International Journal of River Basin Management	2017		University of Kerala	
Prominence of seasonal water quality assessment in a tropical river using multivariate analysis	Prince George, Sabu Joseph and S Chidambaram	Applied Water Science	2017		University of Kerala	
Axiomatic characterization of the median and antimedian functions on complete graphs minus a matching	ManojChangat, Divya Sindhu Lekha, H.M.Mulder, Shilpa Mohandas and Ajitha R Subhamathi	Discrete Applied Mathematics	2017		University of Kerala	
Axiomatic Characterization of the Center Function:The Case of Universal Axioms	M Changat, S Mohandas, H M Mulder,	Discrete Applied Mathematics	2017		University of Kerala	

	PG. Narasimha -Shenoi, R C. Powers, D.J Wildstrom					
Axiomatic characterization of the anticenter function of some graph classes	M Changat, S Mohandas and PG. Narasimha -Shenoi	Advances and Applications in Discrete Mathematics	2017			University of Kerala
Axiomatic Characterization of the Interval Function of Disconnected Graphs	Manoj Changat, Ferdoos Hossein Nezhad, Henry Martyn Mulder and N.Narayanan	Discussiones Mathematicae Graph Theory	2018			University of Kerala
Citation Networks Analysis: A New tool for Understanding Science Dynamics with Implications Towards Science Policy	Changat M, Prabhakaran T, Lathabhai HH	Journal of Scientometric Research	2017			University of Kerala
Year 2025: Two Scenarios For the Indian IT Industry (FS)	Shyam Sankar S and Manoj Changat	Journal of Futures Studies	2017			University of Kerala
Salinization and deterioration of groundwater quality by nitrate and fluoride in the Chittur Block, Palakkad, Kerala, Southern India	Shaji E	Journal of geological society of India	2018	11	26	Dept of Geology, University of Kerala
Fluoride contamination in groundwater resources of Alleppey, southern India	Shaji E	Geoscience frontiers	2017		1	Dept of Geology, University of

						Kerala
Extensional collapse of the Gondwana orogen: Evidence from Cambrian mafic magmatism in the Trivandrum Block, southern India	Shaji E	Geoscience frontiers	2018			Dept of Geology, University of Kerala
Regional scale back-analysis using TRIGRS: An approach to advance landslide hazard modeling and prediction in sparse data regions	Weidner L., Oommen, T., Escobar-Wolf R.V., Sajinkumar K.S. , Rinu S.	Landslides	2018	56	University of Kerala Michigan Technological University	
A comparative analysis of pixel- and object-based detection of landslides from very high-resolution images.	Keyport R.N., Oommen T., Martha T.R., Sajinkumar K.S. , Gierke J.S.	International Journal of Applied Earth Observation and Geoinformation	2018	66	University of Kerala Michigan Technological University	6
Significance of variable selection and scaling issues for probabilistic modeling of rainfall-induced landslide susceptibility.	Cobin P.F., Oommen T., Gierke J.S., Sajinkumar K.S.	Spatial Information Research	2018	13	University of Kerala Michigan Technological University	
Anatomy of impactites and shocked zircon grains from Dhala reveals Paleoproterozoic meteorite impact in the Archean basement rocks of Central India.	Li S.S., Keerthy S., Santosh M., Singh S.P., Deering C., Satyanarayanan M., Praveen M.N., Aneeshkumar V., Indu G.K.,	Gondwana Research	2018	104	University of Kerala Michigan Technological University	

	Anilkumar Y., Sajinkumar K.S.					
Early warning system for shallow landslides using rainfall threshold and slope stability analysis.	Shruti Naidu, Sajinkumar K.S. , Oommen T., Anuja V.J., Rinu A. Samuel, Muraleedharan C.	Geoscience Frontiers	2018	34	University of Kerala Michigan Technological University	
Analysing spectral indices and landuse of wayanad Wildlife sanctuary, Kerala	Rajesh Reghunath	<i>Journal of Geography, Environment and Earth Science</i>	2018		University of Kerala	
Role of Geographic Information System in assessing determinants of cardiovascular disease : An experience from a low and middle income country	Rajesh Reghunath	<i>Asia Pacific Journal of Public Health</i>	2018		University of Kerala	
Landscape analysis using GIS and remote sensing for assessing spatial pattern in forest fragmentation in Shendurney Wildlife sanctuary, Western Ghats, India	Rajesh Reghunath	<i>Indian Journal of Ecology</i>	2018		University of Kerala	
A spatial analysis of hydrogeochemical characteristics of Athiyannoor Block, Kerala state, India	Rajesh Reghunath	<i>Pollution Research</i>	2018		University of Kerala	
Vulnerability of coast to saltwater intrusion in and around the	Rajesh Reghunath	<i>Eco Chronicle</i>	2017		University of Kerala	

proposed international sea port, Thiruvananthapuram district, South Kerala (Geology)						
Pharmacological Application of Thermal Lens Technique - A Thermal Diffusivity Study	Swapna M S, Manjusha S, Vimal Raj, MishaHari, Sankararaman S	Journal of the Optical Society of America B	2018		Department of Optoelectronics and Nanoscience and Nanotechnology	
Thermal diffusivity control in titanium dioxide nanofluid through phase tuning	Riya Sebastian, M S Swapna, Vimal Raj, MishaHari, Sankararaman S	Mater. Res. Express	2018		Department of Optoelectronics and Nanoscience and Nanotechnology	
Hydrothermal Development And Characterization Of The Wear-Resistant Boron Carbide From Pandanus :A Natural Carbon Precursor	H.V. Saritha Devi, M.S. Swapna, G. Ambadas and S. Sankararaman	Applied Physics A	2018		Department of Optoelectronics and Nanoscience and Nanotechnology	
Fractal And Spectroscopic Analysis Of Soot From Internal Combustion Engines	M S Swapna, H V Saritha Devi, Vimal Raj, And S Sankararaman	European Physical Journal Plus	2018		Department of Optoelectronics and Nanoscience and Nanotechnology	
From futile to fruitful: Diesel soot as white light emitter	M S Swapna and S Sankararaman	Journal of Fluorescence	2018		Department of Optoelectronics and	

	aman				Nanoscience and Nanotechnology	
Fractal analysis as a potential tool for surface morphology of thin films	S Soumya, M S Swapna, Vimal Raj, V P Mahadevan Pillai and S Sankararaman	Eur. Phys. J. Plus	2017		Department of Optoelectronics and Nanoscience and Nanotechnology	
Particulate Exhaust Analysis from Internal Combustion Engines	M. S. Swapna, R. C. Arsha, Dani Dileep, Rageena Joseph, and S. Sankararaman	Open Access Journal of OAJP Photoenergy,	2017		Department of Optoelectronics and Nanoscience and Nanotechnology	
Blue light emitting diesel soot for photonic applications	M S Swapna and S Sankararaman	Materials Research Express	2017		Department of Optoelectronics and Nanoscience and Nanotechnology	
Camphor soot: A Tunable Light Emitter	M S Swapna, H V Saritha Devi, and S Sankararaman	Applied Physics A	2017		Department of Optoelectronics and Nanoscience and Nanotechnology	
Natural precursor based hydrothermal synthesis of sodium carbide for reactor applications	M S Swapna, H V Saritha Devi, Riya Sebastian, G Ambadas	Materials Research Express	2017		Department of Optoelectronics and Nanoscience and Nanotechnology	

	, and S Sankararaman				
Natural Cotton as precursor for the refractory Boron carbide - A hydrothermal synthesis and characterization	H.V. Saritha Devi, M.S. Swapna, Vimal Raj, G. Ambadas and S. Sankararaman	Materials Research Express	2017		Department of Optoelectronics and Nanoscience and Nanotechnology
Fractal analysis – a surrogate technique for material characterization	M S Swapna and S Sankararaman	Nanosystems: Physics, Chemistry, Mathematics	2017		Department of Optoelectronics and Nanoscience and Nanotechnology
Ultraviolet Protection of Carbon Nanoparticles In Leaves	M. S. Swapna, C. Beryl & S. S. Reshma & Veena Chandran & V. S. Vishnu & P. M. Radhama ny& S. Sankararaman	Bionanoscience	2017		Department of Optoelectronics and Nanoscience and Nanotechnology
Effect of RF Power on the Structural and Optical Properties of Zinc Sulfide Films	S.R. Chalana, S. Sankararaman, RadhakrishnaPrabhu, and V.P. MahadevanPillai	JOM	2017		Department of Optoelectronics and Nanoscience and Nanotechnology
High-performance ethanol gas sensor using	K.P. Priyanka, S.C. Vattappal	Eur. Phys. J. Plus	2017		Department of Optoelectronics and

TiO ₂ nanostructures	am, S. Sankararaman, K.M. Balakrishna and Thomas Varghese				Nanoscience and Nanotechnology	
Electrical properties of grain size tuned CdSe nanocrystal films for practical applications	Dr M Abdul Khader, N Sajid Babu	Solar Energy Materials and Solar Cells	2018		Department of Optoelectronics and Nanoscience and Nanotechnology	
Deposition of nanocrystal thin films of Cu ₂ Se and their optical and electrical characterization	Dr M Abdul Khader, N Sajid Babu	Applied Surface Science	2018		Department of Optoelectronics and Nanoscience and Nanotechnology	
X-ray diffraction line profile analysis of nanostructured nickel oxide: Shape factor and convolution of crystallite size and microstrain contributions	Dr.V. Biju	Physica E Lowdimensional systems and nano structures	2017	23	Department of Physics	22

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Effect of Cosmetic Surgery on body image and body image specific quality of life(Psycholog	Baboo, G & BPNair	JIAAP	2017	3	1	University of Kerala

y)						
Review of texture descriptors for texture classification (CS)	Philomina Simon Uma V	Advances in Intelligent Systems and Computing	2018	Scopus	2	Department of Computer Science, University of Kerala
Robust face recognition using sparse and dense hybrid representation with local correlation (CS)	Sahla Habeeba, M.A., Simon, P., Prajith, R.	Communications in Computer and Information Science	2018	Scopus		Department of Computer Science, University of Kerala
Vanishing Point Based Lane Departure Warning Using Template-Based Detection and Tracking of Lane Markers (CS)	Kumar A.M., Simon P., Kavitha R.	Advances in Intelligent Systems and Computing	2017	Scopus		Department of Computer Science, University of Kerala
Attenuation of high..... phytoconstituents	Sneha.S. Pillai and S.Mini	Journal of Ethnopharmacology	2018			Department of Biochemistry, University of Kerala, Thiruvananthapuram, Kerala 695581, India
Phytochemical Regeneration.	Josna Joseph, Rebu Sundar, Annie John, Annie Abraham	Regenerative Engineering & Translational Medicine doi.org/10.1007/s40883-018-0059-x	May 11, 2018			Department of Biochemistry, University of Kerala
Screening of <i>Axinella donnani</i> .	Ratheesh, S. and Arun, A.Rauf	TRENDS IN BIOSCIENCES	2018			Dept. of Biochemistry, University

						ty of Kerala, Trivandrum-695581
Isolation, <i>Fasciospongia cavernosa</i> .	Ratheesh, S. and Arun, A.Rauf	Protein and peptide letters	2018			Dept. of Biochemistry, University of Kerala, Trivandrum-695581
Non Toxic Biopolymeric Network for Future Bone Tissue Engineering	Jissy Joseph, Arun A Rauf and Bobby T Edwin	TRENDS IN BIOSCIENCES JOURNAL	2018 Accepted			Department of Biochemistry, University of Kerala, Kariavattom Campus, Trivandrum, Kerala. 2Department of Botany, T.K.M College of Arts and Science, Kollam, Kerala.
Comparative pathways	Priyanka S H; Syam Das S; Saritha S Nair; Arun A Rauf; Indira M.	Archives of Physiology and Biochemistry	2018 Mar			Department of biochemistry, university of kerala, kariavattom, TVPM
All Trans Retinoic NFκB	Priyanka S H; Syam Das S; Thushara A.J ; Arun A Rauf; Indira M	Neurochemical research	2018 July			Department of biochemistry, university of kerala, kariavattom, TVPM
Supplementati	Saritha.S.Nair, Syam Das S, Reshma P.Nair	Archives of Physiology	2018			Department of biochemistr

on stress.	and M.Indira	and Biochemistry	May			y university of kerala, kariavattom, TVPM
Atorvastatin toxicity	Syam Das S, Saritha.S. Nair, M.Indira	Andrologia	2018			Department of biochemistry university of kerala, kariavattom, TVPM
Anti-angiogenic effect of... signaling pathways.	AP Athira, Helen A	Biochemistry and Cell Biology	2017			Department of Biochemistry, University of Kerala
Petroleum ether extract atherosclerosis	CK PUSHPAN, Helen A	Biochemistry and Cell Biology	2017			Department of Biochemistry University of Kerala
Betulinic acid and.... collagen induced arthritis	LE Mathew Helen A	Biomedicine & Pharmacotherapy	2017			Department of Biochemistry, University of Kerala
Ruthenium(II) Arene.. Cancer Cell Lines	Poulami M. Krishna PB., Nagaraja CM., Vidya Sabu, Helen A	Dalton Transactions	2018			Department of Biochemistry, University of Kerala
Ameliorative efficacy of... collagen induced arthritis.	Jasmine Peter, Helen A	<i>Indian Journal of Scientific Research,</i>	2018			Department of Biochemistry, University of Kerala
Anti-inflammatory potential.... cholesterol fed rats	Santhi Krishnan, Helen A	<i>Indian Journal of Scientific Research</i>	2018			Department of Biochemistry, University of Kerala.

Isolation, identification... anti-inflammatory activity.	Kavitha S Kumar, Helen A	International Immunopharmacology.	2018			Department of Biochemistry, University of Kerala.
. Evaluation of the changes in Biometric and Biochemical characteristics of <i>Lycopersicon esculentum</i> cultivated in Fly ash amended soils	Niyathi Vijay and Jaya D.S.	Indian Journal of Environmental Protection	2017			University of Kerala
Diversity of Medicinal plants and Pollution stress indicator plants in Kariavattom South Campus, University of Kerala, South India.	Jaya D.S and Soumya,K	Biodiversity International Journal	2017			
The use of Fish Biomarkers for Assessing Textile Effluent.	N. Athira and D. S. Jaya	Nature Environment and Pollution Technology	2018			
Contamination of Aquatic Ecosystems: A Review	Mano Saraswathy Ragi, Divakaran Sarasamma Jaya, Sheela A. Moses	Lakes & Reservoirs Science, Policy and management for sustainable use.	2017			
. Influence of water quality on plankton in tropical ponds: A multivariate analysis approach	M.S. Ragi, D. S. Jaya, Sheela A.M.	<i>Phykos</i>	2017			
Assessment of	Salom Gnana T	Environmental	2018			

the response of planktonic population to abiotic factors in tropical ponds using Factor analysis.	hanga Vincent	I Monitoring and Assessment				
. Denitrification rates in estuarine sediments of Ashtamudi, Kerala, India	SalomGnanaThanga Vincent	Marine Pollution Bulletin	2018	46		
A baseline study on the concentration of trace elements in the surface sediments off Southwest coast of Tamil Nadu, India	SalomGnanaThanga Vincent	International Journal of Ecology and Environmental Sciences	2018	71		
Occurrence and activity of sulphate reducing bacteria in selected estuarine sediments of South Kerala, India.	SalomGnanaThanga Vincent	Estuarine Coastal and Shelf Science	2017	7		
Predominant terminal electron accepting process during organic matter degradation : spatio-temporal changes in Ashtamudi estuary, Kerala, India	SalomGnanaThanga Vincent	Estuarine Coastal and Shelf Science	2017	40		
Geochemistry and microbial population of soil samples in	Jobin Thomas, Sabu Joseph, Thrivikramaji, K.P	Global Journal of Current Research	2017			

different sites of clay mining area, Thiruvananthapuram, Kerala, India						
Assessment of soil erosion in a tropical mountain river basin of southern Western Ghats, India using RUSLE and GIS.	Jobin Thomas, Sabu Joseph, Thrivikramaji, K.P	Geosciences Frontiers	2018	34	2	
Assessment of soil erosion in a monsoon dominated mountain river basin in India using RUSLE-SDR and AHP	Prince George, Sabu Joseph	Hydrological Sciences Journal	2018	77		
Appraisal of nutrient distribution in the surface water and bed sediments of a small mountainous river.	Majusree, T.M., Sabu Joseph, Marco Petitta and Jobin Thomas	Environmental Monitoring and Assessment	2017	84	1	
Integrated approach for identifying factors controlling groundwater quality of a tropical coastal zone in Kerala, India.	Prince George, Sabu Joseph and Sheela Amoses	Journal of Environmental Earth Sciences.	2017	91		
Heavy metal monitoring and health risk assessment of a tropical mountainous river in Kerala, India.	Prince George, Sabu Joseph and S Chidambaram	International Journal of River Basin Management	2017	27		

(EVS)									
3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :									
No. of Faculty	International level	National level	State level	Local level					
Attended Seminars/ Workshops	103	305	63	5					
Presented papers	208	351	49	3					
Resource Persons	46	166	80	6					
3.5 Consultancy									
3.5.1 Revenue generated from Consultancy during the year									
Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency		Revenue generated (amount in rupees)					
Department of Chemistry	Tata steel	Tata		426000					
IMK	KAMT Entrance exam	KAMT		1709628					
Department of Psychology	Nirbhaya	Ministry of Women and Child, Government of Kerala		408457					
Department of Geology	River mapping	Revenue department, Government of Kerala		100000					
Department of Future studies	River mapping	Revenue department, Government of Kerala		100000					
Total				2744085					
3.5.2 Revenue generated from Corporate Training by the institution during the year									
Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees					
NIL									
3.6 Extension Activities									
3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year									
Title of the Activities	Organising unit/ agency/ collaborating agency		Number of teachers coordinated in such activities	Number of students participated in such activities					
Financial literacy workshop (Economics Dept)	Security and Exchange Board of India		One	50					
Workshops/Seminars(MCJ)	Vakkom Moulavi Foundation and Kanthari		Two	40					

Campus cleaning (CS)	NSS	-	20
Kayyurapavanadakam-puppet show on 'Waste management	Thiruvananthapuram Corporation and Department of Botany	-	50
Development of Butterfly garden	Department of Botany	-	50
Uyirneerthadam – project to conserve rain harvest	Department of Botany		50
Nattupacha - An Indigenous Medicinal Plant Garden (6 th March 2017)	Department of Botany		50
Enjoy Physics -Mass education programme (since 2012)	Vickers Channel, Govt of Kerala & Dept.of Nano science		
LED Bulb Assembling Training for villagers	Nanoscience and Nanotechnology in association with St. Mary's College, Manarkadu, Kottayam		
Enjoy Physics through films	Nanoscience and Nanotechnology in association with , Kannur University, Marthoma college Prumbavoor, , Devamatha College Kuravilangadu		
ICT based Physics Teaching	Nanoscience and Nanotechnology & Sree Sankara College, Kalady		
Effective Teaching Learning of Physics – Innovative approach	Nanoscience and Nanotechnology and Sree Sankara College, Kalady		
Aiming Better Physics Projects	Nanoscience and Nanotechnology and newman College, Thodupuzha		
world Environmental Day celebration	Computer Science		
YOGA and meditation class	Computer Science		
National Institute of Speech and Hearing (NISH)visit	Computer Science		
Vikram Sarabhai Space Centre Visit	Computer Science		
World Water Day Observance on March 22 nd .	Vakkom Moulavi Foundation, Trivandrum	2	6
World Environment Day on June 4 th , 2018	Bhoomithrasena, Environmental Science &	11	64

	Botany			
World Ozone Day awareness programme	Environmental Science	3	52	
Developing a water resources management plan for the Kundara Assembly Constituency	Seven grama panchayaths falling in the Kundara Assembly Constituency	1		
3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year				
Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited	
Academic Excellence, Social relevance and new ideas in research areas	Swami Vivekananda Yuva Prathibha Puraskar	Kerala State Youth Welfare Board	65	
3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Swach Bharat(CS)	NSS	Cleaning the premises of Department		30
Flood relief camp(Botany)	NSS	Collection of various items including food, clothes etc. for the relief camp		4
Three days soft skill development programme for the PG students and one day for the Faculty-in-charge	University School of Finishing	Soft Skill Development Programme	1	5
Yoga Day celebrated on 21.06.2017	Optoelectronics			
Swachhta Pakhwada	Optoelectronics	Cleaning the premises of Department		
Sasthayan	Optoelectronics	department exhibited the research findings made during the recent past to the		

		public		
short term course in Research Methodology	Optoelectronics			
laboratory facilities	Optoelectronics	extended its laboratory facilities to students of other Departments, colleges, other universities and ISRO		
3.7 Collaborations				
3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year				
Nature of Activity	Participant	Source of financial support	Duration	
Indian Society of Labour Economics Conference	150	ISLE and Govt. of Kerala	3 days	
Research (BIOCHEMISTRY)	Dr. Suman Mukhopadhyay, IIT, Indore.	-	3 months	
Students exchange (2 Seat)	Qatar University	Qatar University	1 Year	
Indo-Israel international workshop held at Kollam	Project collaborator from Israel, Teachers and Scientists from India, Panchayath representatives	Indo-Israel Project funded by UGC	Two days	
3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year				
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participants
Joint	Internships	IUCAE, Department of Economics, University of Kerala	2 months	8
Joint	Short Term Projects	IUCAE, Department of Economics, University of Kerala	1 year	3
Joint	Associateships	IUCAE, Department of Economics, University of Kerala	2 months	3
Research (CS)	M.Tech Student Project Work	IIST ,NIT Suratkal, NIT Calicut	2017-2018	3 Student 1 Teacher

Research (Bio chemistry)		CEPCI Laboratory & Research Institute, Department of Biotechnology, Kollam	2-11-2017 to 2-11-2022	Gayathri Sundar
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3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
International Memorandum of Understanding between Michigan Technological University and University of Kerala (GEOLOGY)	19 September 2017	Academic activities	
Lee Kong Chian Natural History Museum, National University of Singapore (Aquatic Biology and Fisheries)	2017	To establish a general frame work of co-operation among the parties to develop, scientifically review the content of, continuously improve and maintain an aquatic biodiversity information system, to be used by the signatory party and others	Lee Kong Chian Natural History Museum, National University of Singapore (Aquatic Biology and Fisheries)
Georgian Technical University, Georgia (Statistics)	2017	Exchange of Faculty and other research and technical specialists for short term and long term funding, design of collaborative research projects, including the development of formal proposals for funding of such research, design of student exchange programmes to be implemented as external funding for partial or full support of such exchanges	Georgian Technical University, Georgia (Statistics)

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
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1.5 crore		1.5 crore						
4.1.2 Details of augmentation in infrastructure facilities during the year								
Facilities		Existing		Newly added				
Campus area		399.53 Acres						
Class rooms		126						
Laboratories		26						
Seminar Halls		15						
Classrooms with LCD facilities		42		8				
Classrooms with Wi-Fi/ LAN		126						
Seminar halls with ICT facilities		15						
Video Centre		NIL						
No. of important equipments purchased (\geq 1-0 lakhs) during the current year.		53		23				
Value of the equipment purchased during the year (Rs. in Lakhs)		31 crores		6.61 crores				
Others		-		-				
4.2 Library as a Learning Resource								
4.2.1 Library is automated {Integrated Library Management System (ILMS)}								
Name of the ILMS software		Nature of automation (fully or partially)		Version	Year of automation			
KOHA		Fully		18.05	2017			
LIBSYS		Fully		-	-			
4.2.1 Library Services:								
		Existing		Newly added		Total		
		No.	Value	No.	Value	No.	Value	
Text Books		346241		3847	4254730			
Reference Books								
e-Books		3223	2492230					
Journals				229	10317132			
e-Journals		9694	E-shodh sindhu	650	6217162			
Digital Database		6						
CD & Video		250						
Library automation		KOHA Software	Open source					
Weeding (Hard & Soft)								
Others (specify)								
4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc								
Name of the teacher		Name of the module		Platform on which module is developed		Date of launching e - content		
Dr.Achuthsankar S Nair		Making Powerful Multimedia		MOOC		02-05-2017		

	presentation		
Philomina Simon	2 NPTEL MOOC completed		
Dr Saameer Babu M	Qualitative Data Analysis	NRC- Mizoram University	MOOC is being offered now
Dr. M.S Harikumar	Media Research	E-content for CEC (EMMRC, University of Calicut)	July 2017

4.3 IT Infrastructure

4.3.1 Technology Up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)
Existing	Approx. 2000	-	1 GBPS+4 MBPS+4 MBPS	-	-	-	-	1 GBPS
Added	400							
Total	2400	-		All are used connections	-	-	-	

4.3.2 Bandwidth available of internet connection in the Institution (Leased line): One MBPS /GBPS

4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
E- content development lab SICC, Karyavattom	-
Video conferencing facility is being developed and will be ready for e-development content within three months	-

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
-----	Rs. 17,98,55,205/- (Plan & Non-Plan)	----	Rs. 25,30,366/- (Non-Plan)

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

<https://iqac.keralauniversity.ac.in/policyNCharters.php>

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

	Name /Title of the scheme	Number of	Amount in Rupees
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		students	
Financial support from institution			
	UGC –NET JRF	200	25000/-pm
	UGC –NET SRF	209	28000/-pm
	Maulana azad National Fellowship for Minority Students – JRF	17	25000/-pm
	Maulana azad National Fellowship for Minority Students – SRF	6	28000/-pm
	National Fellowship for SC Students – JRF (RGNF)	18	25000/-pm
	National Fellowship for SC Students – SRF (RGNF)	10	28000/-pm
	BSRRFSMS – JRF	1	RS.24800/-pm (for NET/GATE qualified) and Rs.21700/- pm for others
	BSRRFSMS – SRF	6	RS.27900/-pm (for NET/GATE qualified) and Rs.24800/- pm for others
	Swami Vivekananda Single Girl child Scholarship for Research in Social Science - JRF	2	25000/-pm
	Swami Vivekananda Single Girl child Scholarship for Research in Social Science - SRF	NIL	28000/-pm
	National Fellowship for Persons with Disabilities – JRF	1	25000/-pm
	National Fellowship for Persons with Disabilities – SRF	Nil	28000/-pm
	Indira Gandhi Single Girl child Scholarship for PG Students	30	36200/-pa
	PG Merit Scholarship For University Rank Holders	Nil	Rs.3100/-pm
Financial support from other sources			
a) National	INSPIRE	17	<ul style="list-style-type: none"> • 368000/- pa for JRF per student • 409769/- pa for SRF per student
	CSIR	10	<ul style="list-style-type: none"> • 368000/- pa for JRF per student • 409769/- pa for SRF per student
	ICSSR	1	207000/- pa per student
	ICMR	1	409760/- pa for SRF per student
State	KSCSTE Fellowship – Offered by Kerala Govt.	10	284000/-pa for the first two years & 350000/- for the 3 rd year per student
b) International			

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Yoga and Meditation			
Certificate in Yoga and Meditation	D. March 2018 E. April 2018 F. August 2018	57	CACEE Only
Teacher's Training Certificate in Yoga and Meditation	October 2018	29	CACEE
P.G. Diploma in Yoga Therapy (2 batches)	January- December 2018	54	a. Govt. Nature Cure Hospital, Varkala b. Bethany Nature Cure Hospital, Nalanchira b. Bethany Nature Cure Yoga Physiotherapy and Research Centre, Nalanchira
Skill Development Programmes			
Skill Development for students belonging to SC/ST and Minority Community	2018	40	Competency Training Centre at Kariavattom Campus under the CACEE.
Counselling Course			
P.G. Diploma in Counselling Psychology (2 batches)	January- December 2018	91	a. Dept. of Psychology, University of Kerala b. Dept. of Behavioural Science, University of Kannur c. Mental Health Centre, TVPM d. General Hospital, TVPM e. Dept. of Psychiatry, Govt. Medical College
Programmes- c. Personal and Telephone Counselling	January- December 2018	1-3 cases per day	Referral services with Medical College, Thiruvananthapuram, General Hospital and Mental Hospital, Peroorkada
d. Pre-Exam Counselling Sessions for Higher Secondary students (covering 14 Districts of the State)	24 th and 25 th February 2018	14 Districts 200 students /District	SCOLE Kerala, formerly known as Kerala State Open School, Govt. of Kerala
c. Telephone	April / May 2018	2 to 5 calls/day	SCOLE Kerala and Counselling

Counselling to the Higher Secondary students (Post Exam, Pre Result and Post Result)			Alumni of CACEE
d. Psycho Social Care services for the Flood affected victims in Pathanamthitta and Alappuzha Districts	23.08.2018 and 27.08.2018	13 relief camps in the Districts of Pathanamthitta and Alappuzha	Dept of Psychiatry, Medical College, TVPM Directorate of Health Services, DMO's Office of Alappuzha and Pathanamthitta District, Counselling Alumni of CACEE
e. Follow-Up Counselling to the Flood affected victims in Pathanamthitta District	30.09.2018	Ranni (100 persons)	Counselling Alumni of CACEE
Training programme for Counsellors for the Psycho Social Intervention for Flood affected victims	22.08.2018	72	Dept. of Psychiatry, Govt. Medical College Thiruvananthapuram
Seminar on Parapsychology	06.01.2018	100	Dept. of Psychology
Seminar on Suicide and Suicide Prevention in connection with the observance of Suicide prevention Day	09.09.2018	50	Mental Health Centre, Thiruvananthapuram
Seminar on Jail Reforms and Counselling	16.12.2018	35	State Institute of Correctional Administration (SICA) Prisons Head Quarters, Poojappura
Bridge Course			
P.G. Certificate in Criminology and Criminal Justice Administration	June 2018 Special Paper Introduction to Legal Process	15	Govt. Law College , Thiruvananthapuram
Mentoring			
Continuing Education Courses for Prisoners – First of its kind in India	January 2018 onwards (continuing)	20 students/ batch	Central Prison and Correctional Home, Poojappura
Internship and Block Placements of Continuing Education Courses	January 2018 – December 2018		Mental Health Centre General Hospital Govt. Medical College Social Justice Department, TVPM Sree Chithirathirunal Institute of Medical Sciences National Health Mission Govt. Nature Cure Hospital, Varkala National Ayush Mission

			Thiruvananthapuram Corporation and Major NGO's
Extension programme conducted in association with Cotton Hill Old Teachers 'and Students' Association (COTSA) for the students of Cotton Hill GHSS, TVPM	January 2018-December 2018	50 students	Govt. Girls HSS, Cotton Hill VSSC, Thiruvananthapuram, Tiger Research Centre, Periyar Dept. of Health Services, Govt. of Kerala University of Kerala Kerala Travels, TVPM
Participation in Kerala University Stall – State School Youth Festival at Alappuzha	December 6 to 9		CACEE

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018	Women Capacity Building Programme(Economics)	30	30	5	2
2017	Career Counselling – University Placement Cell & Finishing School(CS)	60	50	3	15
2018	UGC NET	14	-	Nil	Nil

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
157	113	250

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Catholic Syrian Bank(Economics)	10	In the process			
ETV, Hyderabad(	10	5	Times of India, Tvm Mathrubhumi, Tvm	5	2

MCJ)					
Moblexion(C S)	15	4	Polus, Technopark	8	4
Allianz Cornhill Information	12	2	Allianz Cornhill, Technopark	12	2
Mathrubhumi Daily	18	1	PRD, Govt. of Kerala	72	4
Media One TV	6	1	NIT	6	1
Genpro Life Science India Pvt. Ltd.	8	1	GBS, Kowadiar	18	3
Mobilexion, Trivandrum	7	1	Camerin sloks, Ernakulam	4	1
ICICI Prudential	24	5	Womens College, Trivandrum	5	1
Bajaj Allianz Zomato	36	7	Vimala College, Thrissur	6	1
	39	5	Dept. of Economics and Statistics, Govt. of Kerala	10	3
Ecesis Bpo Service LTD	22	5	Directorate of Collegiate Education, Govt. of Kerala	9	2
UST Global, Trivandrum	18	3	Tamil University, Thanjavur	4	1
Suntech Technologies	6	1	Deputy Director of Education	15	1
			IIM, Ahmedabad	4	1
			IIM, Bangalore	5	2
			NIT, Kozhikode	5	2
			Centre for Development Studies, Trivandrum.	6	2
			KPSC	4	1
			ZOHO Finance Department	5	1
			Forensic Science Department	7	1
			Higher Secondary Education Department, Govt. of Kerala	6	1
			DB College Sasthamkotta, Kerala	3	2
			Technical University of Denmark	4	1
			CSIR-NIIST, Govt of India, Trivandrum	8	1
			Empright Infotech	7	1
			National Informatics	8	1

			Centre		
			St. Gracious College	4	1
			Canara Bank	6	1
			ST. Johns College	7	3
			NSS College	9	1
			University of Kerala	18	2
			SN college	5	1
			Catholicate college	3	1

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2017-18	3	PG	Economics	TISS	PhD
2017	Three	MCJ	Communication and journalism	1. University of Hyderabad 2. Central university of Tamilnadu	PhD
2017	1	M.Tech Computer Science	Department of Computer Science	DRDO	JRF
2017	6	Msc Psychology	Department of Psychology	University of Kerala University of Calicut Amrita institute of medical sciences, Cochin	M.Phil (Consulting Psychology) M.Phil (Learning disability) M.Phil (Clinical Psychology) M.Phil (Psychology)
2018	15 M.Sc students 5 M.Phil Students	M,Sc Biochemistry M.Phil Biochemistry	Dept. Of Biochemistry, University of Kerala	University of Kerala	

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	94	Not available
SET	6	
SLET		
GATE	6	
GMAT		
CAT		
GRE		
TOFEL		

Civil Services		
State Government Services	1	
Any Other	10	

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student	
16 th To 20 th Febr uary 2018	First Prize	National Youth Festival At Ranchi University, Jharkhand	Nil	Quiz		1. Albin Binoy 2. Gokul M S 3. Surya Girish	
	Second Prize			One Act Play		1. Mahalekshmi S 2. Thulasi Krishna N 3. Ambadi M A 4. Arjun Raj R A 5. Kiran Kriastopher 6. Anantha Krishnan R L 7. Malu H Krishna 8. Aparna H 9. Nithin V 10. Dileepkumar V	
	Fourth Prize				Folk /Tribal Dance		1. Mahalekshmi S 2. Arjun K. S 3. Thulasi Krishna N 4. Ardra M A 5. Malu Krishna 6. Amritha M I 7. Sulthana Najeeb 8. Haritha Hari 9. Ammu Maria Mathew 10. Jerin J
	First Prize				Classical Instrumental Solo (Non- Percussion)		Aravind H
	First Prize				Collage		Rebecca Rechana Paul
16 th To 20 th	First Prize	National Youth Festival At Ranchi University,	Nil	Quiz		4. Albin Binoy 5. Gokul M S 6. Surya Girish	
	First Prize			Cartooning		Rebecca Rechana Paul	

February 2018	First Prize	Jharkhand		Classical Instrumental Solo (Non-Percussion)		Aravind H
	Second Prize			Collage		Rebecca Rechana Paul
	Second Prize			Skit		1. Akhil Suresh S 2. Ashika J Ashok 3. Aparna J S 4. Sruthy Suresh 5. Ardra M A 6. Abhilash T. L.
	Second Prize			One Act Play		1. Arjun K S 2. Mahalakshmi S 3. Ardra M A 4. Gowri Gopal P 5. Karthik Chandran 6. Sruthy Suresh 7. Abhilash T L 8. Syam Mohan M S 9. Carren Elsa Mathew
	Third Prize			Western Vocal Solo		Krishna Dinesh
	Third Prize			Group Song Indian		1. Ritwik A 2. Sreerajini V V 3. Evugin Emmanuel E 4. Krishna Dinesh 5. Vani V R 6. Vinesh G S 7. Jahnavi S

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Kerala University has Students Council in two forms: 1. Researcher's Students Union 2. Departments Students Union. The leaders to the Union are elected in a democratic manner and are involved in addressing academic issues as well as issues relating to the welfare of students and research scholars. Both the Unions have their representatives in the IQAC. The activities of the Council include undertaking Career Oriented Programmes, workshops on Research and Academic matters, Organization of Cultural events, Literary and Cultural competitions, Youth Festival, Observance of important National Events, Involvement in Cultural Festival etc

University of Kerala has its student members on all statutory and non-statutory bodies. In the IQAC, there are two student members. We have our student members in the following statutory bodies

1. Syndicate - 1
2. Academic council - 2
3. Senate - 9

Student members involved in the decision making process and support student progression.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details

(maximum 500 words): **YES**

The university has a common alumni association which is a registered body. At present, we 250 members who have alumni. The school of distance education has a very strong alumni association. In addition to the above, over 22 of our teaching departments have alumni association which meet annually in respective teaching centres. The alumni contribute significantly to the growth of these departments. They initiate awards and financial support for students and engage in student support service. The alumni association of school of distance education has contributed Rs.11,58,259 to the university.

5.3.2 No. of registered Alumni : **One**

5.3.3 Alumni contribution during the year (in Rupees) : **68.85 lakhs**

5.3.4 Meetings/activities organized by Alumni Association : **Five**

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Routine administrative matters like grant of casual leaves, special casual leave, duty leave, etc have been decentralising. Academic matters pertaining to teaching departments are take-in at the Credit Semester System office subject to the report of statutory bodies. By virtue of the provisions contained in statue 6 of chapter II of the Kerala university first statutes 1977, the vice chancellor has delegated the following powers and functions to pro-vice-chancellor with immediate effect. All powers exercised by the Vice- chancellor under the provisions of chapter VI and VII of the Kerala university first ordinances 1978 with regard to the conduct of examinations except appointment of examiners for evaluation of PhD Thesis. Granting of registration of candidates as research scholars on the basis of the recommendations of the standing committee, conversion of registration (part time to full time and vice versa) and sanctioning of leave to research scholars.

6.1.2 Does the institution have a Management Information System (MIS)?: **YES**

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

❖ Curriculum Development

Constant interaction with experts from the media industry is assured for curriculum advancement and placement. Invited talks of media professionals on contemporary issues are organised every week at the department. As part of the programme, students have to do two months media internship at the end of the final semester. The syllabus of the PG programme is revamped every year with due consultation of outside experts. The innovation council provides encouragement for innovations in curriculum development. Kerala university has a centre for curriculum development which organizes a curriculum fair annually.

❖ Teaching and Learning

To improve the quality of teaching, the following measures are adopted:

- Quality improvement programs for faculty, at regular intervals
- Refresher courses at reputed institutes of national importance
- Exposure to modern teaching methods, including but not limited to extensive use of information technology services
- Memberships in professional bodies, for faculty
- Support to faculty, for attending professional meetings and conferences, in pursuit of academic excellence
- In-house seminars and academic debates to further knowledge sharing and enhancing communication skills
- Feedback system involving students to identify pitfalls
- Review of teaching methods and styles, at periodic intervals
- Active participation of students in class room settings, seminars, discussions and debates
- Student-led conferences/seminars on topics of interest
- Modern audio-visual tools to enhance learning experience
- Support for web-based education tools
- Support to students, for attending professional meetings and conferences, in pursuit of academic excellence
- Feedback system involving students to identify pitfalls
- Review of teaching methods and styles, at periodic intervals
- Teachers are actively involved in curriculum framing and innovation in pedagogy. Two lab journals namely UNIV VOICE and KALARI are brought out regularly in every semester. Students are also involved in bringing out SPOTLIGHT a special issue for the IFFK, Kerala. NEWS TODAY, a daily wall newspaper produced using the news supplied through PTI wire service is a real time learning experience for the PG students on active newsroom practices at the department's media lab.
- Video documentaries and short films produced by students are uploaded in the You Tube channel of the department.
- Ensure the use of online systems like Moodle, Urkund, and MOOC etc in the programs.
- Introduction of new teaching and learning methods after identifying the problems (if any) faced by the students in regular classroom learning
- Adopted computer assisted instruction, provided e-sources for learning , Discussion and demonstration
- Smart class facility for MSc classroom
- Use of power points and other E resources and techniques
- bioinformatics lab where students can utilise E Resources
- Library updated with latest edition books (total: 3893 books)
- An innovative teaching methodology of poster based team presentations and a three tier feedback based evaluation system for classroom assessments for PG students (Dr. PG Biju)
- Short video logs prepared by student as teams and presentation in front of the class (Dr. M Indira)
- Trans-disciplinary learning is encouraged. Under each department, students of a Program need to select one elective course from outside the department but within the school and one course

from outside the school.

❖ Examination and Evaluation

IQAC, in association with examination wing of the university organized a workshop on curriculum reforms. Among other things the workshop outcome was on formulating a Student Life Cycle Management System. Creating an academic calendar and linking examination calendar to the academic calendar was suggested. Automation of the examination wing and tabulation work was suggested for timely completion of examination work.

❖ Research and Development

University has established a research council with members from research institution in and around Trivandrum. This is the for the purpose of identifying research issues from a real life context and linking research outcomes for social benefit.

<https://iqac.keralauniversity.ac.in/researchInnovations.php>

University has formed an Institution Innovation Council as per MHRD guidelines. We have organized two workshops on research methods of which one was in collaboration with ICSSR. The university provides fellowships to all its research scholars from its own resources where scholars not eligible under other funding agencies.

❖ Library, ICT and Physical Infrastructure / Instrumentation

1. CHNS Analyzer
Make -Perkin Elmer
Model 2400series III
Total Cost 44000.00 USD
2. Simultaneous Thermal Analyzer TGDTA/DSC system
Make Perkin Elmer
Model STA 8000
Total Cost 42500.00 USD
3. X Ray photo electron Spectrometer XPS
Make- Thermo scientific
Model- XPS Escalab X1+ XPS System
Total cost-Rs. 38713748.00
4. Liquid Chromatography Tandem Mass Spectrometry LCMS/MS
Make Shimadzu
Model Shimadzu LCMS 8045 Ultra Fast Triple Quadrupole Mass Spectrometer with Shimadzu Nexera Ultra High Performance Liquid Chromatography System
Total cost- Rs. 12933804/-
5. High Performance Thin Layer Chromatography HPTLC
Make Camag
Model Camag HPTLC linomat 5
Total cost-5722937.00
6. Liquid Nitrogen Generator LN2 Plant
Model KHIONE LN240 Liquid Nitrogen generator
Total cost- GBP 119931.00
7. Genetic analyser (DNA Sequencer)
Make Thermo Fisher Scientific-Ion Torrent
Model 3500 genetic analyser, QS3RTPCR, Ion one touch

Total Cost-Rs. 1,12,52542.00
<p>❖ Human Resource Management</p> <p>The university has a human resource management centre under UGC funding. Besides providing training in the form of orientation programmes and refresher programmes, the centre provides short term on specific skills to both teaching and non-teaching staffs. Such training includes orientation on university statues, training on service rules, and training for examination purpose. The university has also initiated training for familiarize with file flow system.</p>
<p>❖ Industry Interaction / Collaboration</p> <p>To improve the industry interaction and collaboration, the following methods are being adopted:</p> <ol style="list-style-type: none"> 1. Ensuring that news of research activities and breakthroughs of the department reaches the potential industry partners 2. Outreach programs and open houses to invite attention of potential collaborators 3. Individual efforts of faculty in attracting research collaboration with like-minded faculty from across the globe 4. Technology development to cater to the needs of the society and efforts for commercialization of such need-based products, involving industrial partners 5. Two months Media internship is mandatory for each student to complete the programme. Regular media visits are held. 6. A visit to National Institute of Speech and Hearing (NISH) visit on 10th August 2017 7. Industrial visit on 5th October 2017-to Vikram Sarabhai Space Centre 8. Invited Talks on current Technologies and Research Areas. 9. Research works in collaboration with RGCB, NIIST, and SCTIMST etc. for sharing of knowledge and ideas and utilization of facilities provided there for better research output. 10. The university has a centre for academic and industrial collaboration where members from industry interact with academicians on areas of interest including collaboration and employability. IQAC has members from the industry and does collaborate with Kerala start-Up Mission on formation of Start-Ups.
<p>❖ Admission of Students</p> <p>The university has admissions under two modes, for affiliated colleges through which online admission portal, for teaching departments through admission portal of Credit semester office. Admission to teaching departments is based on entrance examinations and marks obtained in qualifying examinations.</p>
6.2.2 : Implementation of e-governance in areas of operations:
<p>❖ Planning and Development</p> <p>Planning and development wing under a full time director. The wing coordinates with UGC, other national funding agencies including DST, ICSSR and ICAR. This wing also coordinate with higher education council and RUSA funds under different projects are electronically transferred to the university and made available to the research centres. Planning and Development wing monitors fund utilisation and submission of utilisation certificates.</p>
<p>❖ Administration</p> <p>University introducing file flow system for automated electronic movement of files. University computer centre conducts E-governance strategies linking with national informatics centre.</p>

<ul style="list-style-type: none"> ❖ Finance and Accounts KU finance employee's portal • Online direct payment of salary • PF credit cards • Leave details • Income tax TDS filing
<ul style="list-style-type: none"> ❖ Student Admission and Support • Student admission, payment of fees, choice of courses, choice of SWAYAM course under MOOC
<ul style="list-style-type: none"> ❖ Examination • Online submission of application for different examinations, downloading of hall tickets • Online availability of question papers, tabulation of marks • Online submission of application and synopsis • Choice of research guides • Choice of research centres • Research fellowships • Course work • We have taken primarily steps for uploading mark lists and certificates under NAD

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2017	Dr. Joseph Antony	58 th Annual Convention on "Understanding Change in World Politics", Maryland, USA	UGC	Rs. 27,427/-
2017	Dr. Anu Unny	58 th Annual Convention on "Understanding Change in World Politics", Maryland, 2017	UGC	Rs. 27,427/-

6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2018	-	Awareness Programme on File Flow Management System (FFMS)	June 2018 (3 day)	-	300

2018	-	Master Trainers Programme on Flow Management System (FFMS)	June 2018 (3 day)	-	120
6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year					
Title of the professional development programme		Number of teachers who attended	Date and Duration (from – to)		
Short – term Course		1	22/02/2018 to 28/02/2018		
FDP(Arabic)		1	14-20 December 2017		
UGC sponsored 19 th Refresher Course in Human Rights (Interdisciplinary) conducted by the UGC-HRDC, University of Kerala		2	13-06-2017 to 03-07-2017		
Soft skill training program for faculty in charge of student skill acquisition (SSA) club		1	11/09/2018 One day		
Successfully completed National Programme on Technology Enhanced Learning(NPTEL) MOOC conducted by IIT Roorkee on Digital Image Processing of Remote Sensing Data		1	4 Weeks		
Successfully completed National Programme on Technology Enhanced Learning(NPTEL) MOOC conducted by IIT Kharagpur on Soft Computing May 2018		1	8 weeks		
Successfully completed National Programme on Technology Enhanced Learning(NPTEL) MOOC conducted by IIT Madras on Data Mining May 2018		1	8 weeks		
6 Month Certification Course on Counselling Psychology Passed with First Class conducted by State Resource Centre, Govt of Kerala		1	6 months		
Faculty Development Program Conducted by University of Kerala		1	1 day		
Faculty Development Program on Human Values and Ethics conducted by AICTE, Ministry of MHRD		1	3 days		
Workshop on Examination Reforms		2	1 day		
Attended an Orientation Programme on Spoken Tutorial Project in partnership with Indian Institute of Technology (IIT) Bombay at Department of Computer Science, University of Kerala, Karyavattom, Thiruvananthapuram		1	July 26, 2017. 1 day		
Refresher Course in Economics		63	Feb 1- 28, 2018		
158 th Orientation (Education Dept.)		1	June- July, 2018		
Refresher Course in Environmental Sciences		1	09.01.2018 to 29.01.2018		
Refresher Course in ORI & MSSSL		1	30/11/2017 to 20/12/2017		

		(21 days)
Skill Training Programme Organized by Finishing School of University of Kerala(Philosophy)	1	1 Day on 11.09.2018
Short course on Disaster management	60	18-07-2018to 25-07-2018
Orientation Course	1	28-02-2018 to27-03-2018
Faculty development programme on curriculum, teacher and technology		14-12-2017 to 20-12-2017
Refresher Course	1	13/06/2017 to 03/07/2017

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
8	-	466	-

6.3.5 Welfare schemes for

Teaching	Transportation facility, staff quarters, medical reimbursement, group welfare scheme, group insurance, house building advance. Both teaching and non teaching staffs have two welfare credit societies - Employees Co-operative Society and Employees Housing Society. Employee recreation club also exists. University has a health centre in both its campuses.
Non teaching	Transportation facility, staff quarters, medical reimbursement, group welfare scheme, group insurance, house building advance. Both teaching and non teaching staffs have two welfare credit societies - Employees Co-operative Society and Employees Housing Society. Employee recreation club also exists. University has a health centre in both its campuses.
Students	Transportation facility, health check up and medical facilities, student amenity centre

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)

Institution conducts statutory audit as per government requirements. We also subject to audit of accountant General office and local fund audit. The audit objections are cleared on a time basis.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
Individuals (two MP's Fund)	50 Lakhs	To construct the building for Advance Centre for Regenerating Medicines and Stems Cells Research” in Karyavattom Campus

6.4.2 Total corpus fund generated : 304 Crores				
6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done? No, during this period				
Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	No	No	No
Administrative	No	No	No	No
6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)				
University supports the autonomy granted to two of its affiliated colleges.				
6.5.3 Activities and support from the Parent – Teacher Association (at least three)				
<ol style="list-style-type: none"> 1. Meetings of PTA to address the needs of the students and the Department in fulfilling their academic duties 2. Support of PTA in improving the quality of learner orientation and productivity 3. Personal grievance redressal forums with active involvement of PTA 				
6.5.4 Development programmes for support staff (at least three)				
<ol style="list-style-type: none"> 1. Transportation facility 2. Health services 3. Membership credit society and housing society 				
6.5.5 Post Accreditation initiative(s) (mention at least three)				
<ol style="list-style-type: none"> 1. Formation of research council 2. Flagship PROGRAMME on interaction with eminent scholars 3. Undertaking of gender audit, green audit, library audit and energy audit 				
6.5.6				
a. Submission of Data for AISHE portal : (Yes /No) Yes				
b. Participation in NIRF : (Yes /No) Yes				
c. ISO Certification : (Yes /No) No				
d. NBA or any other quality audit : (Yes /No) No				
6.5.7 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants
2018	Workshop on Examination Reforms	May 2-3,2018	2 days	
2018	Induction programme	September 26,2018	1	800 (including students and parents)
2018	Interaction with eminent scholars	Initiated		
2018	Constitution of Institution Innovation Council			

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES						
7.1 - Institutional Values and Social Responsibilities						
7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)						
Title of the programme			Period (from-to)		Participants	
-					Female	Male
7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: 100KW solar energy plant at Karyavattom Savings (of around Rs. 1 lakhs per month) Percentage of power requirement of the University met by the renewable energy sources 5%						
7.1.3 Differently able (Divyangjan) friendliness						
Items Facilities			Yes/No		No. of Beneficiaries	
Physical facilities			Yes		NIL	
Provision for lift			Yes		36	
Ramp/ Rails			Yes		28	
Braille Software/facilities			Yes(Central Library)		8	
Rest Rooms			Yes		32	
Scribes for examination			Yes		2	
Special skill development for differently able students			Yes		12	
Any other similar facility						
7.1.4 Inclusion and Situations						
Enlist most important initiatives taken to address locational advantages and disadvantages during the year						
Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2017-18	Nil	2	15 th to 16 th February 2018, 2 day	Sasthrayan	Promoting interest in higher learning and research.	986
7.1.5 Human Values and Professional Ethics						
Code of conduct (handbooks) for various stakeholders						
Title	Date of Publication	Follow up (maximum 100 words each)				
Research Handbook	22-02-2018	Guidelines for implementation being taken up and feedback				

		sought. This is circulated among all teaching departments of university of Kerala for M.Phil and Research scholars. It contains data regarding Ph.D regulations, M.Phil regulations, Guidelines On Ph.D and M.Phil. Also includes Kerala University library system, computing centre and campus computing infrastructure, sophisticated instrumentation & computation centre, Department wise research infrastructure, Articles on research & innovations, union, sports & student welfare.
Academic Hand Book	01-07-2017	This hand book distributed to all PG departments in UoK. The rules and regulations describes about credit and semester system, CSS PG regulation, fee schedule, anti-plagiarism statement, anti- ragging regulations. The learning resources and infrastructure includes Kerala University library system, computing centre and campus computing infrastructure, sophisticated instrumentation & computation centre, Department wise research infrastructure, graduate attributes, learning in higher education, disciplinary boundaries and beyond and student welfare

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants
Two tier Induction programme (School level and Department level)	Two days	552

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

- 1.Green charter
- 2.Rain Harvesting System
3. Solar Plant

7.2 Best Practices

Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

1. Adoption of UGC mandate on employability, skill, MOOC and NAAC accreditation
2. Conducted Energy Audit in association with KSEB proposal initiated for talent bank.

<https://iqac.keralauniversity.ac.in/ugcMandate.php>

<https://iqac.keralauniversity.ac.in/energyAudit.php>

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust

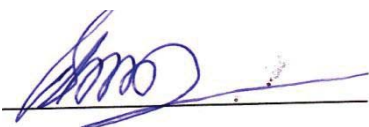
Provide the web link of the institution in not more than 500 words

<https://iqac.keralauniversity.ac.in/performance.php>

8. Future Plans of action for next academic year (500 words)

- Proposal to elevate University as a Centre of Excellence in teaching, research and consultancy with global standards –University level advisory committee to be formed and initiatives pursued under trans-disciplinary learning, creation of inter university centres for advanced learning, linkage with industry(Centre for Industrial and Academic Collaboration), Strengthening of Consultancy Cell, IPR Cell and Research Council.
- Examining possibilities for commencing need based contemporary programs of learning in agro-economics, forensic sciences, Regenerative Medicine, Stem cell biology, 3D bio printing, Nutraceutical investigation and product development, Clinical Embryology, Big data analysis in health science, and investigative journalism
- Initiating programs for improvement in campus infrastructure through KIIFB
- Initiating steps to fill the vacant faculty positions so as to meet the teaching, learning and research requirement of the university.
- Strengthening of School System
- Formation of new study centres (Centre for Marxian Studies and Up-Gradation of the Centre for Performing and Visual Arts to the Standard of School of Drama, Advanced Centre for Regenerative Medicine and Stem Cell Research in Cutaneous Biology)

Prof. (Dr.) Gabriel Simon Thattil



Signature of the Coordinator, IQAC

Prof. (Dr.) V. P Mahadevan Pillai



Signature of the Chairperson, IQAC

Director
Internal Quality Assurance Cell
University of Kerala
Thiruvananthapuram 695 034



Abbreviations:

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

For Communication with NAAC

The Director

National Assessment and Accreditation Council (NAAC)

(An Autonomous Institution of the University Grants Commission)

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