Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**
Name of the head of the Institution	**Dr.K.N.MADHUSOODANAN**
Designation	**Vice Chancellor**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04842577619**
Mobile no.	**9349406334**
Registered Email	**iqaccusat@gmail.com**
Alternate Email	**iqac@cusat.ac.in**
Address	**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**
City/Town	**KALAMASSERY**

State/UT	**Kerala**
Pincode	**682022**

2. Institutional Status

University	**State**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**state**
Name of the IQAC co-ordinator/Director	**Dr.K.Girish Kumar**
Phone no/Alternate Phone no.	**04842862748**
Mobile no.	**9847363660**
Registered Email	**iqaccusat@gmail.com**
Alternate Email	**iqac@cusat.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	**https://iqac.cusat.ac.in/assets/web/uploads/document/AQAR_2017_2018.pdf**
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	**https://www.cusat.ac.in/academic_calendar.php**

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	A	3.09	2016	16-Sep-2016	15-Sep-2021

6. Date of Establishment of IQAC	10-Apr-2007

7. Internal Quality Assurance System

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
No Data Entered/Not Applicable!!!		

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	**View File**
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)

No Data Entered/Not Applicable!!!
View File

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

Plan of Action	Achivements/Outcomes
No Data Entered/Not Applicable!!!	
View File	

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

Name of Statutory Body	Meeting Date
The Syndicate	**01-Mar-2019**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2019**
Date of Submission	**28-Jan-2019**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**• IQAC has been actively engaged in collection and processing of data regarding teaching, learning and research conducted across all departments/schools/centers and other auxiliary bodies, which are used for making policy decisions and for taking quality enhancement initiatives. • In order to improve the quality, completeness and correctness of data, IQAC has developed a data acquisition web portal so that the report generation becomes highly effective. • The portal is http://iqac.cusat.ac.in/Login through which faculty members and university departments can directly upload their details of achievements and other details. • The portal has modules under the following broad aspects: i. University Departments/Centres ii. Faculty Members information on personal, academic, administrative activities iii. Research Activities and their output iv. Curriculum Activities v. Teaching Learning Processes and many more.**

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	Programme Specialization	Date of Revision
BTech	BTEC CSE	B.Tech. in Computer Sci. Engg	11/04/2019
BTech	BTEC EE	B.Tech. in Electrical & Electronics Engg.	11/04/2019
BTech	BTEC IT	B.Tech. in Information Tech.	11/04/2019
BTech	BTEC ME	B.Tech. in Mechanical Engg.	11/04/2019
BTech	BTEC CE	B.Tech. in Civil Engg.	11/04/2019
BTech	BTEC ECE	B.Tech. in Electronics & Comn.Engg	11/04/2019
BTech	BTEC CHE	B.Tech. in Chemical Engg.(PT)	11/04/2019
BTech	BTEC S&F	B.Tech. in Safety & Fire Engg.	11/04/2019
BTech	BTEC ME	B.Tech Marine Engineering (Residential Programme)	11/04/2019
BTech	BTEC INT	B.Tech Instrumentation Technology	11/04/2019
BTech	BTEC PSE	B.Tech in Polymer Science & Engineering	11/04/2019
BTech	BTEC NASB	B.Tech Naval Arch. & Ship Building	11/04/2019
MSc	MSC AC	M.Sc Applied Chemistry	11/04/2019
MVoc	M.VOC TMC	M.Voc in Technology and Management Consulting	03/08/2018
MVoc	M.VOC MPA	M.Voc in Mobile Phone Application Development	03/08/2018
Mtech	MTEC CI	M.Tech .Computer and Information Science	03/08/2018

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
No Data Entered/Not Applicable !!!				

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
MSc	Integrated MSc in Science	01/07/2019
MSc	Microbiology	01/07/2019
BVoc	Business Process And Data Analytics	01/07/2018

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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	Programme Specialization	Date of implementation of CBCS/Elective Course System
BVoc	Business Process And Data Analytics	01/07/2018
MSc	Integrated MSc in Science	01/07/2018
MSc	Microbiology	01/07/2018

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
No Data Entered/Not Applicable !!!		

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
i. Feedbacks from Students Feedbacks from students are collected at the end of every semester through the portal https://www.cusat.ac.in/student_feedback_login.php, analysed and are being discussed in the department council meetings. Corrective measures, if needed, are adopted subsequently in the next semester. The feedback helps the respective teacher to improve the teaching capabilities as well as develop the course content in succeeding years. ii. Feedbacks from Parents Feedbacks from parents are collected by the departments itself through the parents teachers/HoDs interactions/ meetings. Their suggestions and concerns are being taken care of and discussed in the department council meetings. iii. Feedbacks from Alumni All University departments have very active association with their alumni members and their expertise and suggestions are being used in improving academic and research activities of the University. The University obtains their feedback in the annual alumni meetings of the departments and use this to improve the curriculum of academic programmes, employability of students and strengthening of research activities according to the needs of industries/society and many more. iv. Feedbacks from Employers All the activities regarding the placement of students are being coordinated by the Placement Cell of the University. They have continuous liaison with the employers and their feedback and suggestions are being considered by the departments and University

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
No Data Entered/Not Applicable !!!				

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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 fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1237	1079	131	251	251

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 (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
251	251	86	106	89	10

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

A Course Coordinator functions exclusively for mentoring and providing full support to the students. The faculty interacts with the students and shares their problems – academics or otherwise. He provides guidance for maintaining good academic record, career build up and in extracurricular activities. Being research Departments, teachers available in the Department throughout the working hours and quite often after the officehours. The students have the option to interact with them any time. The faculty promotes, motivates the students for writing technical papers / reports for conferences / journals. The students also get opportunity to take part in the Ph D defence examinations and get a direct exposure to such activities of higher learning. This provides them with an opportunity to know the various options and plan their career well in advance.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2395	251	1:10

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 Ph.D

572	251	321	2	200

2.4.2 – Honours and recognition 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**	
No Data Entered/Not Applicable !!!				

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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**
No Data Entered/Not Applicable !!!				

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year		
Number of complaints or grievances about evaluation	**Total number of students appeared in the examination**	**Percentage**
0	2654	0

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 weblink)
https://www.cusat.ac.in/students/CUSAT_GRADUATE%20ATTRIBUTES%20_19-01-2019.pdf

2.6.2 – Pass percentage of students					
Programme Code	**Programme Name**	**Programme Specialization**	**Number of students appeared in the final year examination**	**Number of students passed in final year examination**	**Pass Percentage**
No Data Entered/Not Applicable !!!					

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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 weblink)

https://www.cusat.ac.in/student_feedback_login.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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				

View File

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 the fellowship	Funding Agency
No Data Entered/Not Applicable !!!		

View File

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 agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				

View File

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

No Data Entered/Not Applicable !!!

View File

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					

View File

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Marine Biology Microbiology And Biochemistry	**10**
Marine Geology And Geophysics	**1**
Mathematics	**3**
Photonics	**1**
Physical Oceanography	**1**
Physics	**10**
Polmer Science Rubber Technology	**8**
School Of Engineering	**6**
School Of Legal Studies	**3**
School Of Management Studies	**14**
Ship Technology	**3**

Statistics	3
Central Institute of Fisheries Technology	6
CIPET: Institute of Plastics Technology	1
Kerala Forest Research Institute	2
Model Engineering College	2
Naval Physical and Oceanographic Laboratory	5
Space Physics Laboratory,VSSC	2
Vikram Sarabhai Space Centre	5
National Institute of Oceanography	1
Applied Chemistry	15
Applied Economics	3
Atmospheric Science	1
Biotechnology	2
Chemical Oceanography	4
Computer Application	5
Computer Science	4
Electronics	6
Hindi	11
Industrial Fisheries	1
Inter University Centre for IPR Studies	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
No Data Entered/Not Applicable !!!			

View File

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

Department	Number of Publication
No Data Entered/Not Applicable !!!	

View File

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
No Data Entered/Not Applicable !!!			

View File

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						

View File

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
No Data Entered/Not Applicable !!!				

View File

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
No Data Entered/Not Applicable !!!			

View File

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				

View File

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 participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!			

View File

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	Number of students Benefited
Global Environment Protection Projet Awards 2018	Consolation prize in Research category	World Malayalee Council	2

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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 participated in such activites	Number of students participated in such activites
No Data Entered/Not Applicable !!!				

View File

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
No Data Entered/Not Applicable !!!			

View File

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	Duration To	Participant
No Data Entered/Not Applicable !!!					

View File

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/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			

View File

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
1430	1855.64

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added

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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 patially)	Version	Year of automation
KOHA	Fully	17.11	1999

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			

View File

| 4.2.3 – 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
No Data Entered/Not Applicable !!!			

View File

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1878	49	1206	36	66	329	0	0	0
Added	94	2	10	5	1	12	0	0	0
Total	1972	51	1216	41	67	341	0	0	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1 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
Massive Open Online Courses	https://www.cusat.ac.in/mooc.php

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 incurredon maintenance of physical facilites
530169000	357475000	143000000	185564000

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)

The engineering department of the University oversees the planning, maintenance and execution of construction in respect to new/existing buildings and it looks after the maintenance of infrastructural facilities in the campus. The University takes utmost care to see that all infrastructural facilities are fully utilized. For preventive and break down maintenance of the equipments in the laboratories, maintenance engineers, technical officers, technical assistants and technicians have been deployed. For the all round development of students, apart from our success stories in the field of education, the University provides encouragement and support to sports in a big way. The Department of Physical Education coordinates all activities related to Physical Education and sports on par with regular academics and provides necessary sports facilities of high standards. As in any world class university Library, services in Cochin University of Science and Technology are the core of its academic services and the Central Library of CUSAT finds a unique place in Academic service centres. Besides Central Library, every academic department has its own departmental library which contains the core collection required by the students and faculty of the department. The CUSAT Library system comprising of the University Library and 22 Department Libraries collectively support the teaching, learning and research activities of this multi Campus University. Center for Information Resource Management (CIRM) acts as the nodal centre for all the information technology resources of the University. It involves design, installation and maintenance of the IT infrastructure including the network, software resources and IT enabled services and facilities.

https://iqac.cusat.ac.in/uploads/web/files/Maintenance_and_utilization.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
	No Data Entered/Not Applicable !!!		

View File

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 implemetation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			

View File

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 for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
No Data Entered/Not Applicable !!!					

View File

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	Number of grievances redressed	Avg. number of days for grievance redressal
7	4	6

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
No Data Entered/Not Applicable !!!					

View File

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
No Data Entered/Not Applicable !!!					

View File

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	Number of students selected/ qualifying
No Data Entered/Not Applicable !!!	

View File

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

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		

View File

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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						

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

Students Union of the University comprises of Chairman, Vice Chairman, General Secretary, Secretary and five Executive Committee Members elected from the students' community through election. Various academic, cultural and social activities are carried out by the Students Union and the University provides funding of Rs.10 lakhs for these activities of the Union all round the year. University promotes participation as well as representations of students in all academic and executive bodies of the University. The representatives of students are in Syndicate, Senate and Academic Council which are the statutory bodies of the University. In addition, the discussions on the quality of existing programmes and introduction of new programmes, student's views are solicited and considered by the Boards of Studies and Faculties.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

CUSAT finds itself in an enviable position of having its Alumni holding very important positions in many academic, research, industry and government organizations. The support provided to them in their studies is gratefully remembered and they have shown great willingness to support CUSAT in its development journey. Individual university departments have alumni associations and these alumni are actively involved in the activities in the following way: • by giving their feedback on course which helps in syllabus restructuring. • by offering placement drives. • giving financial support to augment the academic and infrastructure facilities in the concerned departments. • Representatives from alumni are included in the IQAC

5.4.2 – No. of registered Alumni:

39471

5.4.3 – Alumni contribution during the year (in Rupees) :

1092873

5.4.4 – Meetings/activities organized by Alumni Association :

Yes

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)

The representatives of students, nonteaching staff and faculty members are in Syndicate, Senate and Academic Council which are the statutory bodies of the University. In the Departments, the Departmental Council is the forum that has supervisory authority over the Head of the Department. The headship is rotatory among the Professors and Associate professors and the tenure is for a period of three years. This ensures a participative management even in the lower strata.

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):

Strategy Type	Details

Curriculum Development	• As in previous years, this year too meticulous follow up has been initiated to restructuring of syllabi. • Necessary steps are being taken to implement Outcome Based Education in the academic programmes. • Started the following new academic programmes : o M Phil in Social Exclusion and Inclusive Policy Studies w.e.f the academic year 201920 o MSc Microbiology w.e.f the academic year 201819 o Integrated MSc in Physics, Statistics, Mathematics, Applied Chemistry w.e.f the academic year 201819
Teaching and Learning	• University has a pool of highly qualified and internationally recognized faculty members • Well qualified faculty members having international exposure are being appointed • All classrooms of the university are equipped with modern technologies to facilitate smart class. • The revision of syllabi is strictly monitored. • Academic Audit had been conducted
Examination and Evaluation	Sl. No. Changes Introduced Outcome 1 Introduced Examination Calendar. Specifying time frame for various exam –related activities. • Regular and supplementary examinations are streamlined. • Loss of class days is totally avoided. • It allows for planning and conducting various examinations as per schedule published in examination calendar. Now the examinations are conducted only in November for odd semesters and April/ May for even semester. 2 Certificate application process was automated. • The backlog of 34 months is completely removed. Now Degree Certificate processing and printing is completely online. • Degree certificate dispatch and follow up is also online. The backlog is completely removed in this section also. 3 OT application was made online. Payment is now through payment gateway • Students can apply for OT online and make payment online. • They do not have to come to the University for making application • They can track online apart from getting SMS alerts. 4 Introduced Statement of Marks • Students can now use this to apply to multiple institutions with just one SM. (Previously they needed to get separate OT for applying for multiple institutions requiring payment for each) 5 Streamlined the database and software • Data is now available in a format suitable for uploading to National Academic Depository • More than 3000 DCs, digitally signed by the VC, have been uploaded so far . • Mark lists, digitally signed by CE and up loaded. 6 Automated PG examination results processing. (The whole process has been computerized now with introduction of a software developed in house under my sole direction and supervision). • Now the results are published on the same day when the valuation of the answer books is completed and marks are uploaded individually by the teachers who did the valuation is completed. • Every student is provided with a Dashboard from where they can see results and download marklists on pap. •

Students can register for examination and download Hall ticket online • Marklist printing is automated. • Hand written TRs is stopped. System generated TR is used. • SMS gateway alerts students regarding announcement of examination notifications and results. 7 Centralised valuation camp was redesigned (The examination results are mostly delayed due to delay in start of the centralized valuation camp. This delay was looked into and the unwanted steps were removed and the workflow was redesigned). • Now the camp starts within four days since the start of the examination. • The wait for the completion of the whole examination to be over is now completely avoided. 8 Preparation of Question papers automated. (The question papers are collected from the teachers online under secure environment and with password protection. The scheme of valuation is also collected along with the question papers from the teachers). • Reduced the delay in starting of CV camp as the scheme for valuations is already available. • Reduced the workload in the sections and corresponding amount of manpower could be reduced. On an average the University prepares roughly 1450 different question papers for B. Tech programs annually. Collecting, processing and printing so many question used to be very labour intensive process. 9 Developed a website for the examination wing of the University • All relevant information, notification and results are published. • It also integrates different exam – related websites of the University. 10 New Program IDs have been allotted to the entire 219 programs currently being offered. • Helped in uploading of DC and ML to NAD • Every course under 219 programs could be give unique ID derived from PID which reflected the year of last revision as well • Student Registration Number could be derived from PID

| Research and Development | • During this period, 137 research projects which are being funded by various agencies are ongoing. Total grant received for research projects during the period 201718 is ` 13,20.86 lakhs. • The University has instituted a global scholar network scheme namely Chancellor's Chair through which eminent academicians/ scientists from foreign institutions having ranking, preferably, within 500 in the World University Ranking, are invited to the University to interact with the students, scholars and faculty members and to offer at least one course which is of interdisciplinary in nature. This scheme facilitates an opportunity to utilise the expertise of global scholars for a long term in the campus. Four eminent professors visited and shared their knowledge with the university academic communityso far. • The h index of our research publications is 86, which is considered as a remarkably high value for scientific publications. • The University has started five new virtual centres to promote interdisciplinary collaborative research in the frontier areas. The various research groups under these centres are identified many research |

problems in tune with the societal needs. • As a move to promote the research activities and to appreciate the esteemed researchers, the University hase instituted "Distinguished Young Faculty Award" for recognizing five faculty members who have contributed significantly to the teaching and research life of the University and "Distinguished Researcher Award" for recognizing five research scholars who are excel in their area of research, every year utilizing a portion of the prize money of Chancellor's Award. • Inter University Centre for IPR Studies (IUCIPRS) of the University, has established Patent Facilitation Cell, first of its kind in Kerala State primarily to cater to the IP requirement of various Universities in Kerala. IPR cell was set up with the objective of enabling Innovators/researchers in Universities in understanding, Identifying using Intellectual Property for Competitive Advantage. The functions of the cell are focussed on facilitation of IP Protection and creating IP awareness among scholars and teachers.

Library, ICT and Physical Infrastructure / Instrumentation	Library: As in any world class university library, services in Cochin University of Science and Technology are the core of its academic services and the Central Library of CUSAT finds a unique place in Academic service centres. Besides Central Library, every academic department has its own departmental library which contains the core collection required by the students and faculty of the department. Besides conventional services, library offers eservices such as Institutional Repository ethesis (dyuthi.cusat.ac.in), online databases and journals, media repository (media.cusat.ac.in), bibliographic repository (yuj.cusat.ac.in) etc. Databases are available through the campus wide networks to all users in the University. CUSAT Library is a member of various ejournal consortia such as EShodhSindhu consortium, DELNET consortium, National Digital Library, World eBooks Library and South Asia Archives (SAA). More than 1300 electronic journals are available through the campus wide network. The University Library has completed the digitization process of all theses produced by CUSAT and made available online through the institutional repository DYUTHI and the UGC national repository – SHODHGANGA. All the housekeeping and information management systems in the University Library are powered by open source software such as KOHA, DSpace, BibApp and Media core. University Library is conducting various sponsored research projects and workshops for knowledge discovery and knowledge management to meet the contemporary information needs of its clients. ICT: • All classrooms of the university are equipped with modern technologies moreover, multimedia facilities are regularly used in course delivery by teachers. o The university has subscribed to NPTEL video lectures, which is aimed at providing Elearning through online Web and Video

	courses. o Learning Management System, Edmodo is used for some courses to communicate with students for sharing study materials, access and grade assignments etc. o The instructional pedagogy of flipped classroom is rigorously adopted in some courses. o Assignments and gradings for few courses are entirely paperless and this helps in improving transparency and quality of internal assessments. o Departments offer courses through MOODLE (http://moodle.cusat.ac.in/moodle/), the students access the course materials, assignments, announcements etc. through this system which is available anywhere anytime. Courses by the faculty members, in almost all disciplines under Science, Technology, Social Science, Law, Humanities, Environmental Science, Engineering, Marine Sciences, vocational courses in DDU Kaushal Kendra have been uploaded in the platform. Physical Infrastructure / Instrumentation • The work of setting up of State of the Art Research Laboratory and Academic Block at an estimated cost of `240 crore, utilizing funds mobilized through its Kerala Infrastructure Investment Fund Board (KIIFB) is ongoing. • Students' residential facilities are being enhanced by constructing a new Ladies Hostel for students using a portion of the Chancellor's Award prize money/RUSA fund/KIIFB fund.
Human Resource Management	• The faculty members are encouraged to participate in conferences, interact with experts in the relevant fields in order to further enrich research, deliver invited talks in national and international conferences. In this connection, the University departments/schools as well as research centres regularly conducts workshops/seminars/ conferences/ lecture series by eminent academicians/scientists etc. • Training programme for teaching/ non teaching staff are regularly conducted by the Centre for Employee Empowerment and Skill Acquisition Centre
Industry Interaction / Collaboration	Centre for Innovation, Technology Transfer Industrial Collaboration (CITTIC) was set up in the year 2014 with the mission of providing a vibrant, innovative, and entrepreneurial environment for faculty and students to run universityconnected startup companies. CITTIC started incubating startup companies from February 2017 and 60 companies have been incubated in CITTIC since then. Some of them have made successful exit. We also organized a range of programmes to encourage the sprit of innovation, entrepreneurship and maker culture. They included CUSAT INNOVATE, MAKER WEEK END, ENTREPRENEURSHIP AWARENESS CAMP (EAC), WOMEN IN TECH PROGRAMME etc. The interaction with the industry is strengthened by the consultancy services and also it is helping to include experts from the industries in the Board of Studies to use their expertise in the curriculum designing. The experts from the industry have

	been invited to deliver lectures/talks in the University. In addition, the society benefits directly from the expertise of our faculty members.
Admission of Students	Through effective application of information and communication technology (ICT), the University is fully equipped to deliver all the admission related Services to the student community in a very convenient, efficient, and transparent manner. Exchange of information, communication transactions and integration of various standalone systems through eGovernance has made the University capable of delivering quality service to the society at par with world class Universities across the globe. The Complete admission process of the University is computerised since 2016. The various automated processes involved are: o Online Application Registration o Online Common Admission Test (CAT) o Email and SMS alerts o Online Option Registration. o Online admission and online payment o Candidate portal o Information exchange services The Computer based Common Admission Test is conducted in 30 major cities across India and also at selected centres in the UAE for admission to the various academic programmes of the University every year. The response sheets of the candidate and answer keys are made available in the candidate's portal/email within 24 hours of completion of the test. The candidate feedback registering services are activated immediately and will be open for three days. The rank position of the candidate for each academic programme will be available in the candidate's home page within 10 days of completion of the CAT. The allotment of candidates to various programmes is processed automatically based on the options registered by the candidates online. The details of allotments will be made available through candidate's home page and through sms within no time. The candidates have the facility to pay the course fee online and confirm their admission. The admitted students will be issued student identity card upon successful verification of their qualification certificates at centralised councelling venue. Fully inhouse developed software is used for the entire process like student registration, allotment, payment, counselling etc. Through the effective use of ICT, the University has successfully managed to reach the beneficiary and to ensure that their service needs are met.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Student Admission and Support	The Unit for International Relations and Academic Admissions (IRAA) of the University manages the entire admission process of the University. Through effective application of information and communication technology (ICT), IRAA is fully

equipped to deliver all the admission related Services of the University to the student community in a very convenient, efficient, and transparent manner. Exchange of information, communication transactions and integration of various standalone systems through eGovernance has made the University capable of delivering quality service to the society at par with world class Universities across the globe. The Complete admission process of the University is computerised since 2016. The various automated processes involved are: 1. Online Application Registration 2. Online Common Admission Test (CAT) 3. Email and SMS alerts 4. Online Option Registration. 5. Online admission and online payment 6. Candidate portal 7. Information exchange services The Computer based Common Admission Test is conducted in 30 major cities across India and also at selected centres in the UAE for admission to the various academic programmes of the University every year. The response sheets of the candidate and answer keys are made available in the candidate's portal/email within 24 hours of completion of the test. The candidate feedback registering services are activated immediately and will be open for three days. The rank position of the candidate for each academic programme will be available in the candidate's home page within 10 days of completion of the CAT. The allotment of candidates to various programmes is processed automatically based on the options registered by the candidates online. The details of allotments will be made available through candidate's home page and through sms within no time. The candidates have the facility to pay the course fee online and confirm their admission. The admitted students will be issued student identity card upon successful verification of their qualification certificates at centralised councelling venue. Fully inhouse developed software is used for the entire process like student registration, allotment, payment, counselling etc. Through the effective use of ICT, the University has successfully managed to reach the beneficiary and to ensure that their service needs are met. II. STUDENT PORTAL The student admission data is ported from IRAA software to Examination software. Payment Gateway is integrated with online application of Migration certificate. Also SMS gateway for Examination activities are Live now.

| Administration | I. File Flow Management System (FFMS) File Flow Management System (FFMS) has been successfully implemented in CUSAT. Currently majority of the files are routed through FFMS (http://ffms.cusat.ac.in/ddfs/login.do), in administrative office as well as in departments. All administrative processes from File Creation to Approval are being done through FFMS. CUSAT EGovernance Cell is coordinating and streamlining the activities related to FFMS. II. Biometric Attendance System Biometric Attendance System has been used effectively in the University since 2014 and all related |

	processes such as marking of attendance, marking of leave etc. are being done through this system.
Finance and Accounts	III. Financial Management System A robust Finance Management System is in place the University had already digitized the pay roll and accounting systems. The updating of existing Payroll Software with UNISPARK system is nearing to end. The Development of Academic and Finance Module has entrusted with the National Informatics Centre (NIC), which are now in their final stages of implementation. Also the State Government has approved our proposal to customize the Payroll Software SPARK used in the Government departments through NIC. Accordingly, NIC has customized the SPARK for our purpose and named it UNISPARK. It is under testing phase. After successful implementation in CUSAT, the State Government has decided to implement it in all other Universities. UniSPARK UniSPARK is now in parallel run. Salary bills of all permanent employees upto July are processed. The master details (Service Book entry) of the employees are being entered. Service books of employees are taken now to update service history. The work is started and is in progress. Double Entry Accounting System The existing Accounting System is being transformed to the accrual based Double Entry System in association with NIC. Receipts of 20192020 are being entered.
Examination	The examination processes such as registration, hall ticket downloading, evaluation, publication of results etc. are automated. Streamlined the examination database and software. Data is now available in a format suitable for uploading to National Academic Depository. • The registration for National Academic Depository (NAD) is over. The degree certificates are already available on NAD though which the students can download and print their copies. The verification agencies can verify the documents online which save a lot of time and effort. • More than 3000 degree certificates, digitally signed by the Vice Chancellor, have been uploaded so far. • Mark lists, digitally signed by Controller of Examinations and uploaded. • Automated PG examination results processing. The whole process has been computerized now with introduction of a software developed in house. Now the results are published on the same day when the valuation of the answer books is completed and marks are uploaded individually by the teachers who did the valuation, as and when this is completed. • Every student is provided with a Dashboard from where they can see results and download marklists on pop. • Students can register for examination and download hall ticket online • Mark list printing is automated. • Hand written Tabulation Register is stopped. System generated Tabulation Register is used. • SMS gateway alerts to students regarding announcement of examination notifications and results. •

Preparation of Question papers automated. The question papers are collected from the teachers online under secure environment and with password protection. The scheme of valuation is also collected along with the question papers from the teachers. • Certificate application process was automated. • Official Transcript application was made online. Payment is now through payment gateway. They can track online apart from getting SMS alerts. • Streamlined the examination database and software. Data is now available in a format suitable for uploading to National Academic Depository. • The registration for National Academic Depository (NAD) is over. The degree certificates are already available on NAD though which the students can download and print their copies. The verification agencies can verify the documents online which save a lot of time and effort. • More than 3000 degree certificates, digitally signed by the Vice Chancellor, have been uploaded so far. • Mark lists, digitally signed by Controller of Examinations and uploaded. • Automated PG examination results processing. The whole process has been computerized now with introduction of a software developed in house. Now the results are published on the same day when the valuation of the answer books is completed and marks are uploaded individually by the teachers who did the valuation, as and when this is completed. • Every student is provided with a Dashboard from where they can see results and download marklists on pop. • Student

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
No Data Entered/Not Applicable !!!			

View File

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	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
No Data Entered/Not Applicable !!!					

View File

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	From Date	To date	Duration
No Data Entered/Not Applicable !!!				

View File

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
2	2	85	85

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
· · Pension and Family Pension · Medical Reimbursement Facility · Leave Travel Allowance · Cochin University Employees Society and Employees Welfare Fund are centred	· Pension and Family Pension · Medical Reimbursement Facility · Leave Travel Allowance · Cochin University Employees Society and Employees Welfare Fund are centred	· Students Aid Fund: a scheme for giving financial assistance to the deserving students with low financial background but with good academic records. · University is providing post doctoral fellowship of Rs.25,000/ per month with contingent grant of 20,000/ p.a · The University is providing 150 research fellowships at a rate of Rs.12,500/ per month in the first two years and Rs.15,000/ per month for the next 1and ½ years with a contingent grant of Rs 10,000/ per annum · Monthly stipend of Rs 5000/ is being provided to students undertaking projects outside University departments / schools. · Department of Youth Welfare is a formal platform in the University to design and implement youth policy which includes the issues related to motivation, participation, promotion and socioeconomic and cultural settings within which young people grow up. The Department has organized a lot of programmes in the year 201617 for the purpose of building confidence, creativity and compassion among the students. The University have a Students Amenity Centre in which the Dept of Youth Aelfare as well as Dept of Physical Education is functioning. In addition, a multiGym, Tennis court, Shuttle courts, Basketball courts

around the financial needs of the staffs · Medical Reimbursement Facility · Leave Travel Allowance · Cochin University Employees Society and Employees Welfare Fund are centred around the financial needs of the staffs	around the financial needs of the staffs	Playground for football and Cricket. Yoga Centre, Health Centre and a Mind Clinic are also available for students. There are eight men's hostels and six women's hostels for meeting the residential needs of students. · Students Aid Fund: a scheme for giving financial assistance to the deserving students with low financial background but with good academic records. · University is providing post doctoral fellowship of Rs.25,000/ per month with contingent grant of 20,000/ p.a · The University is providing 150 research fellowships at a rate of Rs.12,500/ per month in the first two years and Rs.15,000/ per month for the next 1and ½ years with a contingent grant of Rs 10,000/ per annum · Monthly stipend of Rs 5000/ is being provided to students undertaking projects outside University departments / schools. · Department of Youth Welfare is a formal platform in the University to design and implement youth policy which includes the issues related to motivation, participation, promotion and socioeconomic and cultural settings within which young people grow up. The Department has organized a lot of programmes in the year 201617 for the purpose of building confidence, creativity and compassion among the students. The University have a Students Amenity Centre in which the Dept of Youth Aelfare as well as Dept of Physical Education is functioning. In addition, a multiGym, Tennis court, Shuttle courts, Basketball courts Playground for football and Cricket. Yoga Centre, Health Centre and a Mind Clinic are also available for students. There are eight men's hostels and six women's hostels for meeting the residential needs of stud

6.4 – Financial Management and Resource Mobilization

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

The accounts of the university are being audited regularly. There is a PreAudit wing of the University for auditing all the expenditure bills internally. All bills are being verified by the Audit wing before approval of the same. The Local Fund Audit wing of the Govt. of Kerala also audits the accounts of CUSAT externally. They also verify all expenditure bills and related documents regularly. Audit report for each year are then placed before the Syndicate and along with the remarks of the Syndicate, the Audit Reports will be forwarded to the Higher Education Dept., Govt. of Kerala, which will then be placed before the Legislative Assembly. The Principal Accountant General (Audit), Indian Audit and Accounts Dept. also audit the accounts of CUSAT.

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/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		

No file uploaded.

6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External experts	Yes	IQAC
Administrative	Yes	Kerala Government Audit Department	Yes	Audit Wing of University

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

Not Applicable

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

(a) Every year before the commencement of classes, an orientation programmes has been conducted for the first year students and their parents. (b) The inputs from PTA are invited/ collected in PTA meetings as well as unofficially round the year and accordingly appropriate corrective measures are being taken. (c) The University, in association with the PTA of UG departments has introduced a provision in the CUSAT web site Students Academic Information System [http://soe.cusat.ac.in/PTA/] to publish all the results of students, both internal and externals, which can be accessed by all parents to follow the performance of their wards on a continuous basis.

6.5.4 – Development programmes for support staff (at least three)

(a) Training programme for non teaching staff are regularly conducted by the Centre for Employee Empowerment and Skill Acquisition Centre as well as by the University Administration. (b) This was aimed in better office management to increase efficiency and well as induct more transparency in

procedures (c) During 201819, 9 programmes have been conducted to 188 Assistants and Computer Assistants of the University to provide computer training for using regional language software and another 8 training programmes have been conducted to 383 staff for using eGovernance software.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

1. Academic Audit is conducted once in two years. First audit was conducted in 2018 in the University Departments with external experts and the necessary corrective measures are being taken. The Academic Audit 2020 has been started. 2. Management Information System is in place and webportal has been developed for this process (https://iqac.cusat.ac.in/Portal). 3. Activities of Alumni Associations have been strengthened

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!					

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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	Period To	Number of Participants	
			Female	Male
National Seminar on Changing female psychology in India Observations from Kerala	01/11/2018	01/11/2018	32	19
National Seminar onThe impact on natural calamities on Women: Kerala experience	01/11/2018	01/11/2018	41	28

An Entrepreneurship training programme for women for scaling up micro enterprises in collaboration with Kerala Agricultural University	15/10/2018	16/10/2018	50	0
An interactive session on the topic of Women's Health and Gynec issues	09/05/2019	09/05/2019	48	8

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Solar Power Plant The University is in the process of setting upa 0.75 Megawatt Solar Power Plant utilizing the funding of Kerala State Government under the KIIFB project, which has already been approved and the tendering process of the project is progressing.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	14
Provision for lift	Yes	14
Ramp/Rails	Yes	14
Braille Software/facilities	Yes	2
Rest Rooms	Yes	14
Scribes for examination	Yes	14
Special skill development for differently abled students	Yes	14

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	16/08/2018	8	Flood relief camp	Provided necessary facilities such as shelter, food, clothes etc to the flood affected people	2459

2018	1	1	16/09/2018	29	My School kit	Provided Rs.Ten Lakh to the Govt School, Eloor for purchasing uniform and gave school bags, notebooks etc to the students affected by the flood	1000
2018	1	1	18/09/2018	25	CHEKKUTTY production training workshop	Training was given to students public for making Chekkuttya doll created from damaged textile materials in flood to help to rebuild a weaver community in Kerala to rebuild their lives after flood.The amount collected from sale of doll handed over	250
2018	1	1	19/09/2018	25	Water Clinic onsite and offsite	Onsite and offsite testing of water from different parts of flood affected region	1300
2018	1	1	02/10/2018	20	Project REHAB	The University Technical team conducted technical survey in association with District Administration on condition of building structures, electric connection, water quality and safety	1000

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Academic Bulletin	01/07/2018	All Departments, Faculty members and students of the University follow Academic Bulletin for all matters related to academic

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Training Programme on The Indian Legal and Policy Framework on Biodiversity, Human Environment and Sustainable Development	16/05/2018	30/05/2018	100
Special seminar on Sifting the truth from the fake – health news in 21st centuary	04/10/2018	04/10/2018	85
Workshop on "Navakerala Nirmithi: Sastreeya Avalokanam"	03/10/2018	03/10/2018	92
An invited talk on "Learn, Green and Clean: Moving towards Sustainable life" by Dr. K. Muralidharan, Professor of Statistics,Maharajah Sayajirao University of Baroda, Vadodara	17/09/2018	17/09/2018	110
rePresent, a Blood Stem Cell Awareness Campaign and Donor Registration Drive	22/01/2019	22/01/2019	250
International Conference on Child Rights "CHILD RIGHTS: EMERGING ISSUES AND CONCERNS"	01/03/2019	02/03/2019	120
A Science day lecture talk in connection with National Science day celebration "PRAGYAN 2019" on "Role of Scientific awareness of the people in scientific progress of a nation" by Prof. Papooty	22/02/2019	22/02/2019	100

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

a) University is always maintaining an ecofriendly green environment in its campus by upkeeping the plants and trees and it was well appreciated by the NAAC peer team. The Engineering department of the University take care of the maintenance of the campus. b) A proposal for planting 5000 numbers of new saplings of fruit/flowering trees at vacant locations for the beautification of campuses is under consideration. Another project for planting 3000 nos. of fruit/flowering trees at various locations especially at road sides, is also at juncture of execution under KIIFB project. c) The Dept of Youth Welfare as well as NSS Unit of the University also plant and care trees at various parts of the campus and conduct various programmes to create awareness about the importance of tree care. d) As part of promoting ecofriendly living, paper pens containing seeds were distributed to all the students and staff of Kuttanad Campus by the NSS unit. Paper pens are great alternative to plastic ballpoint pens that use waste papers generated by printing presses. e) Rain water harvesting tanks have been constructed in various buildings such as Seminar Complex, Software Engineering Block, Lab Block etc. and the water collected thus is utilised for various

purposes. f) Rain water harvesting reservoir was constructed with a capacity of 1200m3 to fetch the flowing rain water from the academic area which covers 40 of the campus area and in addition, a pond was constructed to collect the rain water from the hostel area. Water from these harvesting resources are treated in the Treatment Plant through pressure sand filtering and activated carbon treatment after adding required chemicals etc. for pH correction. The water then is disinfected by ozonisation system and is distributed for drinking purpose. 75 of our water demand is thus fulfilling through our own resources. g) 0.75 Megawatt Solar Power Plant is proposed under the KIIFB project, which is approved and the tendering process of the project is progressing.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

I. A centralized, single window for admission to all courses of CUSAT is being held towards attracting **best** talent from all over India – around 40 seats are open for students from all other states this approach aims at providing a metropolitan outlook to candidates and helps to inculcate professional agglomerate of mixed culture. Admission to various courses offered is through ONLINE Common Admission Test (CAT) conducted during AprilMay, each year. A separate website https://admissions.cusat.ac.in/ is maintained exclusively for this purpose. II. The University provides financial assistance to meritorious students/ research scholars of the University for presenting their research papers in Seminars/ Conferences organized by a foreign University/Institution of high repute and having significant academic credibility.

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

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

1. The University was established with an objective to offer programmes across a spectrum of disciplines in frontier areas ranging from engineering, science and technology to humanities, law and management. The pursuit of excellence through these programmes has given CUSAT a national and international acclaim. However, CUSAT as a Science and Technology University, has afforded a conducive environment for the conduct of fruitful research. The University has active research collaboration with well known research institutions in India and abroad. In the recent years, CUSAT has started advanced centres to promote research with assistance from Central Funding Agencies. ST Radar centre for conducting research in Atmospheric Sciences, an Indo – US program awarded to the National Centre for Aquatic Animal Health (NCAAH) with the objective of bringing in

innovations in the field of Marine Sciences and many more. The University is in the process of leveraging its strengths in order to focus more on the strong areas and is striving to be a Centre of Excellence in the areas identified. The interdisciplinary research is gaining momentum globally replacing the unitary type of research and CUSAT follow the global path. The faculty members participate in the technical sessions conducted by CUSAT Knowledge Forum, a monthly activity to promote inter departmental research activities. The five new virtual centres have been started recently to promote interdisciplinary collaborative research in the frontier areas. The various research groups under these centres are identified many research problems in tune with the societal needs. CUSAT continuously strive to generate a human resource of global competence by imparting most modern knowledge and training to its student community and to take up Research and Development activities in the frontier areas so as to contribute positively to the progress of the society and the Nation. The University conducts various programmes and activities through which the academic community gain exposure in research in the global path and also in sophisticated research facilities. The University exploits the expertise of eminent academicians from India and abroad through the ScholarsinResidence programme "The Erudite" and "The Chancellor's Chair". Research facilities in the University Departments/Schools regularly upgrade subsequent to the developments in the corresponding research area. The research laboratories in the campus are the result of incremental additions of sophisticated instruments over the years. Many University Departments/Schools are getting financial assistance under Special Assistance Programme (SAP) from UGC and Fund for Improvement of ST Infrastructure (FIST) programme from DST. The setting up a of State of the Art Research Laboratory and Academic Block at an estimated cost of Rs.240 Crores, with financial support from the State Government of Kerala is progressing. The quality and quantity of the research projects undertaken by the University is commendable. The University provides the amount sanctioned by the funding agencies to carry out the research projects, to the principal investigators as advance which facilitates a high momentum in the research activities. The University had provided Seed money for new research initiatives up to Rupees five lakhs to 24 new faculty members during

Provide the weblink of the institution
https://www.cusat.ac.in/public_relations/In_Pursuit_of_excellence.pdf

8.Future Plans of Actions for Next Academic Year

The University in its strive to continue as a university of excellence, many measures are being taken to enhance and maintain quality in teaching learning, research and development etc. The following are some of the endeavours of the University towards our quest for excellence. 1. To start two new schools School of Integrated MSc Programmes and School of Vocational Studies and Skill Development 2. To enhance the University JRF from Rs.12,500/ to Rs.20,000/ and University SRF

from Rs.15,000/ to Rs.22,500/ 3. Implementation of Outcome Based Education in all academic programmes 4. Establishment of Interdisciplinary Centre for Research Ethics and Protocols 5. Establishment of Software Development Centre 6. Strengthen the collaborative research activities by forming interdisciplinary research groups 7. E Governance in all administrative activities 8. To start M.Sc in Forensic Science 9. More Student Exchange programmes 10. More academic and research collaborations and joint projects with foreign counterparts. 11. To conduct Academic and Administrative Audit 2020 12. To conduct more faculty improvement programmes