

The Annual Quality Assurance Report (AQAR) of the IQAC 2014-15

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

1. Details of the Institution

1.1 Name of the Institution

Cochin University of Science and Technology

1.2 Address Line 1

Cochin University P.O

Address Line 2

Kochi

City/Town

Ernakulam

State

Kerala

Pin Code

682022

Institution e-mail address

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registrar@cusat.ac.in

Contact Nos.

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Name of the IQAC Co-ordinator:

Dr.A.N.Balchand

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IQAC e-mail address:

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1.3 NAAC Track ID (For ex. MHCOGN 18879)

KLUNGNI0039

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

1.5 Website address:

www.cusat.ac.in

Web-link of the AQAR:

http://cusat.ac.in/iqac

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	Three Star	-	2001	2006
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

10/04/2007

1.8 AQAR for the year (for example 2010-11)

2014-15

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011))

- i. AQAR 2012-13 – 28/01/2014
- ii. AQAR 2011-12 - 28/01/2014
- iii. AQAR 2010-11 - 28/01/2014
- iv. AQAR 200910 - 28/01/2014

1.10 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

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

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

Marine Sciences, Environmental Studies, Humanities, Technology, Social Sciences
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1.12 Name of the Affiliating University (*for the Colleges*)

Not Applicable

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held : 6

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

Non-Teaching Staff Students Alumni

Others

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

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

TBI initiation, welcome two high value projects in most frontier areas, CUSAT rated “excellent” under the DST PURSE program, Web site re-vamp, Engineering works move ahead in a phased manner, 15 new teaching programs to commence, plans move ahead to advertise 116 positions in faculty recruitment, enhancement of University fellowship numbers and amount, pdf to all departments than each faculty, IPR floats new programs

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
Resubmission of SSR and profile towards re-accreditation	Successfully performed – December 2015
Syllabus revision in all cases due	Most number of revisions held

<p>Web design and applications to be loaded, with profiles</p> <p>CAT conduct and procedures under full review</p> <p>Conduct of green audit and design environmental friendly approach suggested</p> <p>Formation of Research Advisory committee is suggested</p>	<p>Great achievements made, and more hits are being received, Webometrics certify the popularity</p> <p>Plans are being made to go online, preferably during next year</p> <p>Wetland monitoring at Rural campus is being contemplated, as part of green audit and plans afloat for rainwater harvesting</p> <p>Committee comes into force and effective roles in promoting project submission is being worked out.</p>
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** Attach the Academic Calendar of the year as Annexure.*

2.15 Whether the AQAR was placed in statutory body Yes No

 Management Syndicate Any other body

Provide the details of the action taken

Mainly SSR and other steps as necessary for re-accreditation was successfully achieved. Project execution and its smooth functioning was a priority area of interest. RAC plans more interactive roles in the matter of project running. Core committee meetings looks into completion of Engineering works.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	26	-	-	-
PG	46	1	5	33
UG	14	-	8	14
PG Diploma	4	-	-	2
Advanced Diploma	5	-	-	
Diploma	4	-	-	
Certificate	4	-	-	
Others				
M.Phil	9	-	-	
Integrated PhD	2	-	-	2
Total	114	1	13	51
Interdisciplinary	12	-	3	
Innovative	1	-	1	

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	62
Trimester	-
Annual	26

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

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

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

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

Yes, syllabi of 5 academic programmes were revised during 2014-15, new programs included

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

No

Criterion – II

2. Teaching, Learning and Evaluations

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	240	68	106	65	-

2.2 No. of permanent faculty with Ph.D.

177

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

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
366	199	141	80	65	53	-	-	572	332

2.4 No. of Guest and Visiting faculty and Temporary faculty

110

5

127

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	106	173	44
Presented papers	102	140	13
Resource Persons	47	138	51

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

- The potential of the internet is being used extensively by the faculty for improving the learning experience of the students.
- The teaching material prepared by the faculty is made available on the net in the PDF format for their reference.
- The resources available in the net are open to them for reference, in addition to the text book based material from the library.
- Stress is also given for hands on experience in the case of laboratory sessions

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

159

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

Scrutiny of question papers promoted

And Total internal assessment is now made applicable to all PG programs.

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

133

2.10 Average percentage of attendance of students

87

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2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Distinction %	I %	II %	Pass %
M.Tech-Electronics	26	96.00%	4.00%	0.00%	96.15%
M.Tech – Polymer Technology	10	66.67%	33.33%	0.00%	90.00%
M.Tech (CASAD)	18	53.33%	46.67%	0.00%	83.33%
M.Tech-Opto Electronics & Laser Technology-ISP	11	100.00%	0.00%	0.00%	100.00%
M.Tech -CIS	15	85.71%	14.29%	0.00%	93.33%
M.Tech (Software Engg)	19	73.68%	26.32%	0.00%	100.00%
M.Tech -Ocean Technology	8	87.50%	12.50%	0.00%	100.00%
M.Tech-Marine Biotechnology (NCAAH)	5	100.00%	0.00%	0.00%	100.00%
MCA–DCA	58	68.57%	31.43%	0.00%	60.34%
MCA–CUCEK	44	64.71%	35.29%	0.00%	38.64%
MCA	102	67.31%	32.69%	0.00%	50.98%
5 Yr integrated M.Sc Photonics	18	66.67%	33.33%	0.00%	83.33%
M.Sc Electronics Science	24	37.50%	62.50%	0.00%	66.67%
M.Sc-Oceanography	11	50.00%	40.00%	10.00%	90.91%
M.Sc -Statistics	19	26.67%	73.33%	0.00%	78.95%
MA Hindi	27	40.74%	59.26%	0.00%	100.00%
M.Sc -Applied Chemistry	21	47.62%	52.38%	0.00%	100.00%
M.Phil Marine Chemistry	8	100.00%	0.00%	0.00%	100.00%
M.sc Mathematics	34	5.56%	72.22%	22.22%	52.94%
M.Sc HydroChemistry	12	33.33%	66.67%	0.00%	100.00%
PG Diploma in Communication Engg	9	12.50%	62.50%	25.00%	88.89%
Certificate in French	15	7.14%	14.29%	78.57%	93.33%
Certificate in German	15	0.00%	35.71%	57.14%	93.33%
M.sc Marine Geology	7	28.57%	71.43%	0.00%	100.00%
M.Sc Marine Geophysics	10	0.00%	100.00%	0.00%	60.00%
M.Sc-Physics	27	56.00%	44.00%	0.00%	92.59%
M.sc Instrumentation	12	77.78%	22.22%	0.00%	75.00%
M.sc Biotechnology	12	100.00%	0.00%	0.00%	91.67%
M.sc Physics	27	56.00%	44.00%	0.00%	92.59%
M.Phil Life Science	6	100.00%	100.00%	0.00%	100.00%
M.Phil Applied Economics	8	87.50%	12.50%	0.00%	100.00%
MA Applied Economics	14	61.54%	38.46%	0.00%	92.86%
MBA-SMS	57	0.00%	100.00%	0.00%	80.70%
MBA(PT)	22	0.00%	91.67%	8.33%	54.55%
MBA(TT)	48	6.67%	93.33%	0.00%	31.25%
MBA(IB)	59	0.00%	97.37%	2.63%	64.41%
German(Certificate/diploma/integrated)	16	40.00%	20.00%	40.00%	31.25%

diploma)					
italian(Certificate/diploma/integrated diploma)	8	33.33%	66.67%	0.00%	75.00%
French(Certificate/diploma/integrated diploma)	21	66.67%	0.00%	33.33%	28.57%
Japanese(Certificate/diploma/integrated diploma)	3	100.00%	0.00%	0.00%	66.67%
M.Sc – Marine Biology	18	72.22%	27.78%	0.00%	100.00%
M.Sc – Meteorology	9	0.00%	100.00%	0.00%	77.78%
M.Sc – Environmental technology	8	85.71%	14.29%	0.00%	87.50%
M.Phil – Physics	8	87.50%	12.50%	0.00%	100.00%
M.Tech Degree Atmospheric Science	3	0.00%	100.00%	0.00%	100.00%
M.Tech Specialization in wireless Technology	17	94.12%	5.88%	0.00%	100.00%
M.Tech Mechanical Engg. With specialization in Thermal Engg	15	40.00%	60.00%	0.00%	100.00%
LLM (IPR) Ph.D	5	0.00%	75.00%	25.00%	80.00%
MIP (Ph.D)	2	0.00%	100.00%	0.00%	100.00%
5 Year BBA,LLB(Hons)	32	8.70%	65.22%	26.09%	71.88%
LLB(3year)	38	8.57%	88.57%	2.86%	92.11%
M.Tec -Industrial Catalysis	6	16.67%	83.33%	0.00%	100.00%
M.Phil-Commerce-SMS	6	0.00%	100.00%	0.00%	100.00%
M.Tec(CE) SOE	19	68.42%	31.58%	0.00%	100.00%
M.Tech (PT)Computer Science with Embedded System	15	60.00%	40.00%	0.00%	100.00%
M.Tec (FT)IT-SOE	18	66.67%	33.33%	0.00%	100.00%
B.Tech SCHOOL OF ENGINEERING	593	28.16%	71.48%	0.36%	46.71%
B.Tech CUCEK	345	19.17%	80.83%	0.00%	34.78%

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

15 new programs initiated ; 13 teaching approaches practiced in this university reviewed

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	32
UGC – Faculty Improvement Programme	3
HRD programmes	15
Orientation programmes	10
Faculty exchange programme	2
Staff training conducted by the university	12
Staff training conducted by other institutions	15

Summer / Winter schools, Workshops, etc.	318
Others	66

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	549	119	-	185
Technical Staff	195	164	1	62

Criterion – III

3. Research, Consultancy and Extension

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

New facilities in place on completion of DST – PURSE program.
 e-learning process expanded with aid of external agencies
 New projects initiated from various sponsored

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	23	81	22	21
Outlay in Rs. Lakhs	1690.68	6100.72	926.09	719.9

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	2	3	3	24
Outlay in Rs. Lakhs	5.83	8.73	9.77	61.28

3.4 Details on research publications

	International	National	Others
Peer Review Journals	403	117	3
Non-Peer Review Journals	26	14	0
e-Journals	11	15	0
Conference proceedings	176	127	1

3.5 Details on Impact factor of publications:

Range 0 to 5.442 Average 1.7531 h-index 63 Nos. in SCOPUS 335

3.6

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	3-6	DST, KSCSTE, UGC, MNRE, DRDO, DBT, MoES, NRB, DAE-BRNS, ISRO, ICSSR, INSA	1,30,75,905	23,68,708
Minor Projects	1-3	Kerala State Planning Board, UGC, KSCSTE, SERB –DST, CSIR , BSR, DOECC	48,00,000	11,40,000
Interdisciplinary Projects	1-6	UGC, DST, DBT, DAE-BRNS, Govt.	115,928,000	26,704,000

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		of Kerala		
Industry sponsored	1-2	Class NK, Japan, NPOL, DRDO, Kerala Government, SWTD	15,45,000	15,45,000
Projects sponsored by the University/ College	-	-		
Students research projects <i>(other than compulsory by the University)</i>	2 months to 1 year	Aspire, INUP, DBT, KCSTE, TEQIP	3,138,688	3,118,668
Any other(Specify)	-	-		
Total			138,487,593	34,876,376

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE y Other (specify)

3.10 Revenue generated through consultancy in Rs.

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	9	29			
Sponsoring agencies	DST, KSCSTE, UGC, MNRE, DRDO	KSCSTE, UGC, IMS Cochin Chapter, IRC Kochi, CUSAT			

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

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From Funding agency

Rs. 1875.68 lakhs

From Management of University/College

Rs. 2.44 lakhs

Total

Rs. 1878.13 lakhs

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	2
	Granted	0
International	Applied	1
	Granted	1
Commercialised	Applied	-
	Granted	-

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

Total	International	National	State	University	Dist	College
26	3	17	4	2		

3.18 No. of faculty from the Institution
who are Ph. D. Guides
and students registered under them

178

1088

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

121

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

JRF 129 SRF 126 Project Fellows 98 Any other 18

3.21 No. of students Participated in NSS events:

University level 210 State level 25
National level 14 International level -

3.22 No. of students participated in NCC events:

University level - State level -
National level - International level -

3.23 No. of Awards won in NSS:

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

3.24 No. of Awards won in NCC:

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

3.25 No. of Extension activities organized

University forum	<input type="text" value="9"/>	College forum	<input type="text"/>
NCC	<input type="text"/>	NSS	<input type="text" value="10"/>

Any other :

153 Schools visited and 13,836 School Students participated in the One Day Attachment Programme (ODAP) of Centre for Science in Society (C-SiS) of the University during 2013-14. This is a programme which aims at acquainting children with various science principles and experimental set up, through interactive study materials. A well planned programme for batches of students from one or two schools which reserve the facilities of C-SiS for a day

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

1. Conducted Science and Total Capacity Talent Development Programme (STDP) (Mid-summer Programme) by Centre for Science in Society (C-SiS) an intensive programme meant for school children with special aptitude for science (April & May 2014). A total of 300 Students were participated in this programme.
2. Conducted One Day Attachment Programme(ODAP) by C-SiS- a programme that aims at acquainting children with various science principles and experimental set up, through interactive study materials. A well planned programme for batches of students from one or two schools which reserve the facilities of C-SiS for a day. 153 Schools visited and 13,836 School Students participated in this programme during the year.
3. “Enlightening of Scientific Spirit and Awareness among School Students and Teachers through a ‘Two-in-One’ project for the benefit of School Children and their teachers to develop scientific awareness and passion for knowledge through various learning processes using innovative science gadgets and books” Phase II by C-SiS. About 112 Schools visited and 9922 students were participated in this programme.
4. Student exchange programme with NUS Singapore to enable the students to experience know more about the social and cultural environment of Kerala and to inculcate values of social service among them conducted by NSS.
5. Following extension programmes have been conducted by NSS
 - A Medical Camp on 20.07.2014 at Navjyothi residence Association, Thrikkakara

- Breast Cancer and other Cancer awareness campaign in Association with PYM (protect your mother) and Aster Medicity on 16.10.2014.
 - An awareness programme on road safety during July 4-6, 2014
 - An awareness programme on anti-liquor & anti- Drugs on 1st September, 2014
 - Blood donation camp during 23rd September 2014
 - Yajnam Suchitwa Bodhana Padayathra during September 2014
 - Shramdan and swachh bharat mission on 2nd October, 2014
 - Programme on Global hand washing day on 15th October 2014
 - Clean India -Swachh Bharat Mission-PHASE-II on 30th November, 2014
 - Organised Blood donation camp-II on 1st December 2014
 - Observance of World Aids day on 1st December, 2014
 - Conducted Charity work on 15th December, 2014
6. Member of 'Monsoon Madness' from CUSAT cleaned Chimmini dam. 40 students are participated in this programme conducted by the Department of Youth Welfare. The primary goal of the camp was to provide the students with an opportunity to immerse themselves into nature and get a better sense of understanding and appreciation about the resources and deep beauty of nature.
7. Organised 'Cochin cycling campaign' at High Court Junction, Ernakulam on Saturday, 25th October 29, 2014, jointly organised by the Cochin University of Science and Technology and Kochi Metro Rail Limited. The objective of the campaign was to promote the habit of cycling and to create awareness among the youth about healthy ways of living, and protection of environment. Around 70 students participated in it.
8. Conducted Cancer Awareness Programme on 27th November by CUWWO.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	177708 m ²	4475 m ²	UGC, DST, State Govt	182183 m ²
Class rooms	161	3	MHRD	164
Laboratories	187	4	UGC, MODROBS, University Fund	191
Seminar Halls	30	3	UGC, University Fund	33
No. of important equipments purchased (\geq 1-0 lakh) during the current year.		55	DST,DBT,MoES, KSCSTE, UGC, SERB etc.	
Value of the equipment purchased during the year (Rs. in Lakhs)		Rs.38,332,393		

4.2 Computerization of administration and library

Admission, Financial and Examination processes are computerised.

Computerization/ Digitalization of University Central Library:

- Automated library with Open source software KOHA
- Library Collection is available through the Web OPAC
- Union Catalogue which upholds bibliographic description, locations and holding information about all the department libraries functioning under CUSAT
- CUSAT library has IP enabled access to online journals under the UGC Infonet Digital library consortium, and INDEST consortium set up in the campus network and the library itself subscribes number of e-journals
- CUSAT library is a member of DELNET (Developing Library Network) which offers services like union catalogue of books, e-books, journals, e-journals; interlibrary loan of books; photocopies of journal articles through document delivery service, etc
- Federated searching tools-EBSCO discovery service which enables a user to search all the library resources in a single query, including books, ebooks, subscribed electronic resources is available on the library website.
- Library website provides access to all the subscribed electronic resources, including, electronic databases, e-journals, journal archives, e-books, OPAC, union catalog, etc. In addition, the library website provides access to the institutional wealth of CUSAT
- Institutional Repository project using DSpace named Dyuthi is started for digitalization of thesis and research papers of CUSAT Community.
- Bibliographic Information System for Science & Technology (BISSAT) established, namely yuj available at yuj.cusat.ac.in
- Media repository for archiving video of CUSAT events available at media.cusat.ac.in
- Traditional Digital Library is available at dyuthi.cusat.ac.in/TKDL
- Established the ETD lab and digitized around 2000+ theses and uploaded into the shodhganga project . Gives assistance for research scholars in making use of the antiplagiarism software-Urkund
- The library modernization project of Rs.8.3 crores funded by the State Government is progressing well; Rs 5.3 crores is allotted to construct a new building for the library and e-journals and databases are procured for Rs.1 crore. The remaining amount will be used to provide better service to students

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	288557		3243		291800	
Reference Books	42880		770		43650	
e-Books	262		102		364	
Journals	291		101		392	
e-Journals						
Digital Database	11		-		14	
CD & Video	758		17			
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1729	51 labs	1116	36	62	289	1508	
Added	135		65		4	20	62	
Total	1808	51 labs	1181	36	66	309	1570	

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

CUSAT possess a state of the art, reliable and scaleable campus wide network which support the information needs of the user community. All the departments in the main campus are interlinked with a fiber optic backbone. Also the Lakeside Campus 15 Km away and the pulincunnu campus 70 km away from the main campus are connected to the main network. The campus network is seamlessly integrated to the internet through broad band connectivity available to the user community on 24x7 basis. The campus is connected to the National Knowledge Network (NKN) using one Gbps backbone connecting major institutions in India.

In collaboration with Dutch government through MHO-Co-operation project state-of-the art fibre optic backbone was designed, implemented and operated in the university during the period 1997-2004. This project played the baseline for our further endeavours in the area of ICT and related technologies.

Currently *CUSAT* uses integrated enterprise level applications for most of the activities of an academic organization. This include applications for Administration, Examination, Student admissions, Finance management, Accounts management, Recruitment, Management of different programs like conferences, seminars and symposiums, Digital Library and e-Learning. We have a broad vision for an ERP system for academics as an outcome of all our activities in this direction. We have identified the technology components, implemented the solutions and we take care of operations management of these systems completely in-house in a cost effective manner.

The Kerala State Government had envisaged e-governance as a prerequisite to increase the efficiency. The proposed e-governance system of State Government will process University wide transactions on a single software system with multiple functional systems that are designed to streamline almost every aspect of how the institution operates. This system can provide deep visibility to governing bodies at University, Higher Education Department and student level to analyze their performance and hence gear up for future requirements.

To develop the Software, Department of Higher Education appointed Infinite Computer Solutions as the Software Development Agency and IIITM-K as Project Monitoring and Controlling Unit. The entire project life cycle comprises of phases such as System Study, SRS documentation, System Design, Coding, Testing and implementation as well as user training. Currently the project has completed the documentation and review of the existing system study (AS-IS), TO-BE data gathering and FRS/SRS data gathering. SRS documentation is currently in progress.

4.6 Amount spent on maintenance in lakhs :

i) ICT	76.67
ii) Campus Infrastructure and facilities	400.58
iii) Equipments	69.00
iv) Others	
Total :	546.25

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Number of fellowships and amount enhanced

Support to students under physically challenged, economically weak sections, participation in competitions stand promoted, health centre activities augments, students amenity centre turns functional, skill development given additional grants, grace marks awarded to students participating in Students Entrepreneur Program, Bureau conducts special camps for national tests, and women’s cell plans addition programs in self defence plus conduct of Yoga classes too were held.

5.2 Efforts made by the institution for tracking the progression

Data points out to good results in this aspect. Nearly 30% welcome student progression.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
4547	1985	1103	204

(b) No. of students outside the state

1205

(c) No. of international students

7

Men	No	%	Women	No	%
	5110	65%		2744	35%

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
4342	658	78	2384	25	7487	4509	695	57	2571	27	7839

Demand ratio- UG - 1:26 PG - 1:16

Dropout % - 1.31

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

University Employment Information & Guidance Bureau conducts coaching classes for UGC-CSIR JRF/NET, Bank Probationary Officer /Management Trainee /Clerical Examinations and eminent faculties handle the sessions.

No. of students beneficiaries 115

5.5 No. of students qualified in these examinations

NET	87	SET/SLET	10	GATE	153	CAT	10
IAS/IPS etc	1	State PSC	20	UPSC	5	Others	17

5.6 Details of student counselling and career guidance

Placement Cell of the University regularly conducts career counseling programmes. University Employment Information & Guidance Bureau which is a joint venture of the University and the National Employment Service Department has been providing service to the youth in the following areas:

- (1) Providing career information on educational/research/scholarship facilities etc. (including facilities in overseas countries)
- (2) Special coaching classes for candidates belonging to socially backward communities for various competitive examination of the State/Country
- (3) Conducting short duration orientation training for certain specialized courses/careers
- (4) Conducting model interviews, group discussions and personality development courses, including Career Group Talks; (5) publishing of periodic talks for the student community.

No. of students benefitted 168

5.7 Details of campus placement

	<i>On campus</i>		<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
22	779	242	95

5.8 Details of gender sensitization programmes

- Two day National Seminar on "Crime and Violence by and against Women: Observations from Kerala" conducted by Women's Studies Centre of the University
- Two day orientation programme for the prospective women entrepreneurs in Kerala conducted by Women's Studies Centre of the University. The workshop was entitled as 'New Horizons for Prospective and Potential Women Entrepreneurs in Kerala
- Two weeks capacity building programme is being conducted funded by ICSSR (Govt. of India) from 16th to 28th March 2015. The workshop is especially for backward community faculty members and women candidates from social science discipline by Equal Opportunity Cell.
- UGC Sponsored National Seminar on "Distant Thunder: Voice of the Silenced" on 11th and 12th December 2014 by Department of English and Foreign Languages
- Two Day National Seminar was conducted on 'Gender Equality 50-50 : Myth or Reality? Indian Experience' on 16th & 17th January, 2015.

5.9 Students Activities

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

State/ University level	29	National level	14	International level	-
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No. of students participated in cultural events

State/ University level	24	National level	18	International level	-
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5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level	15	National level	1	International level	-
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Cultural: State/ University level	18	National level	13	International level	-
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5.10 Scholarships and Financial Support

	Number of students	Amount in Rs.
Financial support from institution	204	72,26,623
Financial support from government	855	3,71,90,694
Financial support from other sources	150	1,09,83,059
Number of students who received International/ National recognitions	8	8,60,521

5.11 Student organised / initiatives

Fairs : State/ University level	15	National level	7	International level	3
Exhibition: State/ University level	5	National level	3	International level	0

5.12 No. of social initiatives undertaken by the students 26

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

The University’s basic philosophy and goals find eloquent expression in its Coat of Arms emblazoning the motto **“Tejaswinavadhitamastu”** which in essence means **“may the wisdom accrued defy us both the teacher and the taught and percolate to the Universe in its totality”**, which in essence means “may learning illumine us both” (the teacher and the taught).

The University shall have the following objectives as its mission:

- (i) to prosecute and promote research in applied science, technology, industry, commerce, management and social science for the advancement of knowledge and for the betterment of society;
- (ii) to provide facilities and offer opportunities for graduate and post-graduate education in applied science, technology, industry, commerce, management and social science by instruction, training, research, development and extension and by such other means as the University may deem fit;
- (iii) to devise and implement programmes of education in applied science, technology, industry, commerce, management and social science that are relevant to the changing needs of society, in terms of breadth of diversity and depth of specialization;

(iv) to serve as a centre for fostering co-operation and exchange of ideas between the academic and research community on the one hand and industry on the other;

(v) to organise exchange programmes with other institutions of repute in India and abroad with a view to keeping abreast of the latest developments in relevant areas of teaching and research.

6.2 Does the Institution has a management Information System

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

6.3.1 Curriculum Development

As in previous years, this year too meticulous follow up was initiated to update all syllabi.

6.3.2 Teaching and Learning

13 practices are prevalent in this university and the same is encouraged.

6.3.3 Examination and Evaluation

Total internal evaluation of semester end examinations is a success and has a welcome attitude among students.

6.3.4 Research and Development

Strong internal steps to smoothen the conduct of project have yielded good results. Conduct of awareness class also has a positive outcome.

6.3.5 Library, ICT and physical infrastructure / instrumentation

New block is got ready for occupation. Plans are being made to put the new space to the best use.

New gadgets are being procured to Physical Education department.

6.3.6 Human Resource Management

New young staff join various departments.

Engaging guest lecturer is procedural easy now.

6.3.7 Faculty and Staff recruitment

Move on to advertise 116 faculty positions.
PSC recruitment is underway to non teaching posts

6.3.8 Industry Interaction / Collaboration

CITTIC is now functional and new initiatives are being formulated.

6.3.9 Admission of Students

High number of applications necessitates opening new centres for CAT conduct

6.4 Welfare schemes for

a) Welfare Schemes for Teaching as well as Non Teaching Staffs:

- Pension and Family Pension
- Medical Reimbursement Facility
- Leave Travel Allowance
- Cochin University Employees Society and Employees Welfare Fund are centered around the financial needs of the staffs

b) Welfare Schemes for 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 1 and 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 socio-economic and cultural settings within which young people grow

up. The Department has organized a lot of programmes in the year 2013-14 for the purpose of building confidence, creativity and compassion among the students.

6.5 Total corpus fund generated

Rs.1,51,09,05,221/-

6.6 Whether annual financial audit has been done

Yes No

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

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

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

For UG Programmes Yes No

For PG Programmes Yes No

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

- The University publishes Examination Calendar every year consisting of the deadlines on submission of proposals, internals, attendance statement and also the details on commencement of examinations, tentative date for publication of results etc. As the Head of the Department is the Chairman of the valuation camp ex-officio, pre-valuation processes are commenced soon after the examination in the department itself enabling result publication faster.
- Total internal assessment is now made applicable to all PG programs.

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

Not Applicable

6.11 Activities and support from the Alumni Association

Alumni association this time is linked to leadership development.

6.12 Activities and support from the Parent – Teacher Association

New sponsorship is invited from PTA to support this university stay more independently

6.13 Development programmes for support staff

This was aimed in better office management to increase efficiency and well as induct more transparency in procedures

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

Watch and ward presence re-designed to check waste mis - management; more plantation of vegetables encouraged; trees with dry branches were suitable trimmed.

Criterion – VII

7. Innovations and Best Practices

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

Two Faculty members honoured for life time achievements

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

Most plans have materialised thro' decisions arrived at Syndicate and Academic Council. Effective steps taken to seek re-accreditation from NAAC

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

New programs commence in thrust areas
More number of Ph D scholars submit theses indicate enhanced performance in research activities

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

7.4 Contribution to environmental awareness / protection

Waste management approaches re-defined
New building designs have to follow green guidelines

7.5 Whether environmental audit was conducted? Yes No

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

International courses, with relevance to Indian values, culture and arts evolved.

8. Plans of institution for next year

Seek 2nd cycle re-accreditation from NAAC
Avail RUSA grants and apply for UPE status

Name: Dr.A.N.BALCHAND

Name: Dr.J.LATHA

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

Abbreviations:

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