

ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2013-14

Submitted by



Toc H INSTITUTE OF SCIENCE & TECHNOLOGY

ARAKKUNNAM, ERNAKULAM, KERALA

to

**NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL BANGALORE**

Part – A

1. Details of the Institution

1.1 Name of the Institution

Toc H INSTITUTE OF SCIENCE & TECHNOLOGY

1.2 Address Line 1

ARAKKUNNAM

Address Line 2

ERNAKULAM

City/Town

COCHIN

State

KERALA

Pin Code

682 313

Institution e-mail address

mail@tistcochin.edu.in

Contact Nos.

(0484) 2748388, 2749600, 2738126

Name of the Head of the Institution:

Prof.(Dr.) Justus Rabi

Tel. No. with STD Code:

(0484) 2748388, 2749600, 2738126

Mobile:

9946509900

Name of the IQAC Co-ordinator:

Dr. P.I. Paulose

Mobile:

9447814645

IQAC e-mail address:

naac.tist@gmail.com

1.3 NAAC Track ID (For ex. MHC0GN 18879)

KLCOGN 14671

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)

EC/59/A&A/59 dated 21-4-2012

1.5 Website address:

www.tistcochin.edu.in

Web-link of the AQAR:

http://tistcochin.edu.in/committees_and_cells/

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	B	2.71	2012	2012-2017

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

21/06/2010

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

2013-14

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 submitted to NAAC on 31-07-2013

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)

1.12 Name of the Affiliating University (*for the Colleges*)

COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY

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 DST-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 02

- 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

1. Recommended that all the departments should go for NBA Accreditation
2. FDPs were conducted by all the department as per IQAC Recommendation

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
<ul style="list-style-type: none"> • Seminar & Conferences 	<ul style="list-style-type: none"> • IQAC congratulated EC, CS, CE and IT Department for conducting seminar & conferences.
<ul style="list-style-type: none"> • Foreign Collaboration 	<ul style="list-style-type: none"> • IQAC congratulated MBA Department for the foreign collaboration and motivate the other department for collaboration with foreign university
<ul style="list-style-type: none"> • NBA Accreditation 	<ul style="list-style-type: none"> • Four departments have decided to go for NBA and the respective departments started the preliminary work
<ul style="list-style-type: none"> • Collaboration with foreign universities 	<ul style="list-style-type: none"> • MBA department signed a MOU with the University of Kelaniya, Sri Lanka.

* 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

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	0	0	0	0
PG	5	2	7	0
UG	7	0	7	0
PG Diploma	0	0	0	0
Advanced Diploma	0	0	0	0
Diploma	0	0	0	0
Certificate	0	0	0	0
Others	0	0	0	0
Total	12	2	14	0
Interdisciplinary				
Innovative				

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

Pattern	Number of programmes
Semester	14
Trimester	0
Annual	0

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.

NIL

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

NIL

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	179	133	18	28	0

2.2 No. of permanent faculty with Ph.D.

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
	17	0	2	0	3	0	0	0	22	0

2.4 No. of Guest and Visiting faculty and Temporary faculty

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	5	66	0
Presented papers	7	13	0
Resource Persons	1	3	1

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

The college has been a pioneer in introducing and following Bloom's Taxonomy as the pedagogy in the year 2004. Our teachers have been practicing Blooms Taxonomy for the past 11 years. We are now started practicing the Revised Bloom's Taxonomy and CLP model of teaching learning process. Teachers also adopt innovative teaching practices like quiz programmes, modelling, seminars etc. in the class room to make teaching process more effective.

The college has adopted **National Programme on Technology Enhanced Learning (NPTEL)** designed by IITs to bring up the teaching standards to the level of higher institutions of learning.

2.7 Total No. of actual teaching days

during this academic year

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

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

2.10 Average percentage of attendance of students-

90%

2.11 Course/Programme wise

Distribution of pass percentage (2014 PASS OUT):

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
MTECH (VSI And Embedded Systems Design)	18	88.9	11.1	-	-	100
MTECH Wireless Technology)	18	61.1	33.3	-	-	83
MTECH (Power Electronics)	24	83.33	4.1	-	-	87.5
MTECH (Computer Science & Engineering- Data Security)	24	87.5	12.5	-	-	100
MBA	44	4.5	84	-	-	88.64
BTECH(Electrical & Electronics Engineering)	65	24.61	38.46	1.5	-	64.6
BTECH(Electronics & Communication Engineering)	130	18.5	48.5	6.2	-	73.08
BTECH(Civil Engineering)	66	37.8	37.8	-	-	75.75
BTECH(Information Technology)	59	11.86	62.71	1.69	-	76.27
BTECH(Mechanical Engineering)	66	21.21	42.42	6	-	69.69
BTECH(Computer Science & Engineering)	62	6	63	-	-	69

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

- The Academic Performance of all the Departments is reviewed by IQAC and suggests methods to improve Teaching learning.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	36
UGC – Faculty Improvement Programme	38
HRD programmes	0
Orientation programmes	0
Faculty exchange programme	1

Staff training conducted by the university	17
Staff training conducted by other institutions	12
Summer / Winter schools, Workshops, etc.	129
Others	0

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	81	0	15	0
Technical Staff	77	0	7	0

Criterion – III

3. Research, Consultancy and Extension

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

- The college has a Research and Development Department named **J C Bose Centre for Research & Advanced Studies**.
- TIST was registered with Department of Scientific & Industrial Research (DSIR) and got their recognition as a Scientific and Industrial Research Organization (SIRO)
- One Project Funded by DST received during this Academic Year
- Apart from this One project is supported with TIST Funds

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	4	0	0
Outlay in Rs. Lakhs	-	30.36208 (2289734)	-	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	0	0	0
Outlay in Rs. Lakhs				

3.4 Details on research publications

	International	National	Others
Peer Review Journals	2	0	0
Non-Peer Review Journals		0	0
e-Journals	41		
Conference proceedings			

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Lakhs)	Received (Lakhs)
Major projects	2013-2015	DST-SEED	12.79221	7.85241
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				

Projects sponsored by the University/ College	2013-2015	TIST	24,53,000	18,89,475
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)				
Total			37.32221	26.74716

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 Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	0	3	0	0	0
Sponsoring agencies					

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 :

From Funding agency From Management of University/College
Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	0
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

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
nil						

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

3

3

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

NIL

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

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
National level International level

3.22 No. Of students participated in NCC events: **Nil**

University level State level
National level International level

3.23 No. of Awards won in NSS: **NIL**

University level State level
National level International level

3.24 No. of Awards won in NCC: **NIL**

University level State level
 National level International level

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

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

- Special awareness class about ‘Cancer & its prevention’ taken by Dr. V P Gangadharan .
- Blood Donation camp with IMA.

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	26.08Acres	0	Management	26.08Acres
Class rooms	43	1		44
Laboratories	42	1		43
Seminar Halls	4	0		4
No. of important equipments purchased (\geq 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. in Lakhs)		78.02		
Others				

4.2 Computerization of administration and library

- College Administration and Library Department is fully Computerized.
- Library Management System (LMS) software is used in the computerization of the library.
- Well- arranged Digital Library with 25 systems and a projector with screen and speakers.
- NPTEL Videos, DELNET & IEEE E-learning materials are available.

4.3 Library services:

		Existing		Newly added		Total	
		No.	Value	No.	Value	No.	Value
Text Books		25287	9445144	2199	1189912	27486	10635056
Reference Books		8872	3660238	841	578575	9713	4238813
e-Books		e books from e journals ,DELNET &NDL Library					
Journals		786	1046835	155	246960	941	1293795
e-Journals			2046378	12	1679935	12	3726313
Digital Database	Seminar Report	192	0	128	0	320	0
	Project Report	302	0	120	0	422	0
	Question Papers	143	0	73	0	216	0
CD & Video		1002	0	121		1123	
Others (specify)		2000	0	0	0	2000	0

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	615	12	17Mbps	1	1	1	11	
Added	63	0	8Mbps					
Total	628	12	25Mbps	1	1	1	11	

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

- Every Department is equipped with Computer with Printer and Internet access.
- Wi-Fi Enabled Campus.
- On seniority basis Laptops are given for Faculty.
- Faculty can store their Data in College Server.
- In the hostel also providing Wi-Fi Facility.

4.6 Amount spent on maintenance in lakhs :

i) ICT	<input type="text"/>
ii) Campus Infrastructure and facilities	<input type="text"/>
iii) Equipments	<input type="text"/>
iv) Others	<input type="text"/>
Total :	<input type="text" value="55.07"/>

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Financial Assistance to Economically Backward students
- Providing Summer class, Add on courses, Bridge courses to students

5.2 Efforts made by the institution for tracking the progression

- Provides Placement training to get opportunities in reputed companies.
- Arranging Workshops and Seminars with Technical Experts.
- Mentor Encourage the each students to participate in Co-Curricular & Extra Curricular Activities
- Taking Remedial measures for Academic Improvement

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1807	289	0	0

(b) No. of students outside the state

2

(c) No. of international students

12

Men	No	%	Women	No	%
	1103	53		993	47

Last Year(2012)						This Year(2013)					
General	SC	ST	OB C	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1163	69	2	823		2060	113	72	1	910		2096

Demand ratio

Dropout % **0.38**

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

GATE Coaching are organised for Final year students By few Departments. The Classes are held in Saturdays

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

- Language Lab facilities enable the students to prepare and take up TOEFL, GRE Examinations
- Each department students in groups are assigned to mentors who are the faculty from the respective departments.
- The Institute has a separate Department of Applied Psychology and Counselling, with two full time counsellors available in the campus. The students are at liberty to approach any of them for help and guidance.
- Innovation and Entrepreneurship Development centre (IEDC) is functioning effectively in campus which takes initiative to conduct Entrepreneurship training programs and support student start-up initiatives.

No. of students benefitted

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
23	278	198	65

5.8 Details of gender sensitization programmes

- Computer Training for Hose Wives
- Commercial use of Bio-mass from Musa sp.(Banana) to reduce its negative impact on

5.9 Students Activities

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

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

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

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	25	
Financial support from government	233	
Financial support from other sources	0	
Number of students who received International/ National recognitions	0	

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

OUR VISION

“The Institute should evolve as a Center of Excellence for professional education and be a breeding ground for nurturing innovative talents of our young generation in the fields of Engineering, Technology, Management and Research. The graduates of the institute should act as catalysts for transforming the society by being pioneers in technological up gradation, higher ethical standard with a strong base in Science & Technology and striving to achieve higher quality of life for the less privileged.”

OUR MISSION

- _ To provide high quality resources of manpower, infrastructure and technological ambience to the students to empower and enhance their cognitive potential, to excel in their chosen field of Engineering, Technology, Management and Research;
- _ To develop ethical values and character for building social values and above all, to develop empathy for the need of the society, to remove the social and economic disparity.
- _ To provide the faculty an academic environment for good teaching and learning practices, for the benefit of all stake holders; viz, the students, teachers, the society and the institution.”

6.2 Does the Institution has a management Information System

YES, The institute has its own in-house developed management information system in Library and Administration

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

6.3.1 Curriculum Development

- Because Toc H Institute of Science & technology is Affiliated to Cochin University of Science & Technology there is less scope for own Curriculum Development.

6.3.2 Teaching and Learning

The college has been a pioneer in introducing and following Bloom’s Taxonomy as the pedagogy in the year 2004. Our teachers have been practicing Blooms Taxonomy for the past 11 years. We are now started practicing the Revised Bloom’s Taxonomy and CLP model of teaching learning process. Teachers also adopt innovative teaching practices like quiz programmes, modelling, seminars etc. in the class room to make teaching process more effective.

The college has adopted **National Programme on Technology Enhanced Learning (NPTEL)** designed by IITs to bring up the teaching standards to the level of higher institutions of learning.

6.3.3 Examination and Evaluation

- The college has separate Cell to conduct Internal & University Examination Cell
- The Internal Examination will be conducted as per Academic Calendar prepared at the beginning of the Academic Year.
- Internal Evaluation is based on the Internal Assessment Marks, Assignments and Attendance of the students.
- Mentors will track out the Academic Progress of each Student.
- Regular Counselling.

6.3.4 Research and Development

- The college has a Research and Development Department named J C Bose Centre for Research & Advanced Studies.
- Faculty members are encouraged to submit research projects from various funding agencies like DST, BRNS Etc.
- So far TIST had Received 7 externally funded Research Projects totalling about 1.5 cores of rupees from different funding agencies like DRDO, DST and DAE. Apart from this ,some projects are funded by TIST Management.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- College has Total Campus Area of 26.6 Acres
- The library services to the students and faculty are made available through Vivekananda Central, Sarabhai Digital & C K Prahalad MBA Libraries.
- Digital library has got a collection of over 1000 educational CDs, about 5000 NPTEL videos, seminar and project reports, E-Books , E- Journals and the previous year question papers.
- ICT Enabled class rooms.
- Fully Wi-Fi campus.
- Internet Connectivity to all the Labs.
- Hostel Accommodation for girls & Boys
- Transportation facility for all the route
- Canteen Facility

6.3.6 Human Resource Management

- Faculty are recruited as per AICTE & University norms.
- Before the beginning of every Academic year Principal shall assess the faculty and staff requirement through HODs.
- Faculties are supported financially to attend Conference / Workshop & FDP's conducted outside the Institution.

6.3.7 Faculty and Staff recruitment

- Faculty are recruited as per AICTE & University norms.

6.3.8 Industry Interaction / Collaboration

- An interaction with representatives of ACE was conducted to discuss about the Entrepreneurship Training programme conducted for final years and M Tech students.
- IIT Bombay organized a two day workshop on Bridge Engineering on 15th and 16th of December 2014 at TIST. Almost 60 students are participated from various institutions.

MoUs Signed

- Nansen Environmental Research Centre (India), Cochin, India and Nansen Environmental and Remote Sensing Centre, Bergen, Norway.
- KITCO LTD
- TIME, COCHIN
- CAD CENTER COCHIN
- FICE
- Keysight Technologies
- University of Kelaniya, Sri Lanka

6.3.9 Admission of Students

B.Tech Admission:

- Offering 7 B. Tech courses viz. ECE, CSE, IT, EEE, ME, CE and Safety & Fire Engineering for which the total sanctioned strength is 480.

PG Programmes:

M. Tech

- Presently 6 M. Tech courses on the following specializations with a sanctioned intake of 18 & 24.

New course started

- M.Tech in Civil Engineering –Specialization in Construction Engineering and Management.
- M.Tech in Mechanical Engineering-Specialization in Thermal Engineering.

MBA

Institute offers MBA (Full Time Residential Programme) with a sanctioned intake of 60. Currently, we have 48 students in the first year and 35 students in the second year of the programme.

6.4 Welfare schemes for

Teaching	Gratuity, Life Insurance
Non teaching	Gratuity, Medical insurance, ESI
Students	Insurance, Merit Scholarships

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done

Yes

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	yes	ISO	yes	IAC
Administrative	yes	ISO	yes	

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

For UG Programmes

Yes

No

For PG Programmes

Yes

No

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

NIL

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

NIL

6.11 Activities and support from the Alumni Association

- College has an Alumni Cell, which consolidate Alumni information collected from various departments.
- To inspire the regular students by conducting talks by Alumni.

6.12 Activities and support from the Parent – Teacher Association

6.13 Development programmes for support staff

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

- Tobacco free Campus
- To make the Campus Greenery large number of trees are planted
- Parking facilities are ear marks for students & Staff
- Rain water harvesting is provided
- Solar energy is used in the Computer Lab and Library
- Solid & liquid wastes are segregated

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.

- **TIST IEDC**(Innovation and Entrepreneurship Development Cell)
- Centre for Continuing Education(CCE)

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

Plan of Action	Achievements
<ul style="list-style-type: none">• Seminar & Conferences	<ul style="list-style-type: none">• IQAC congratulated EC, CS, CE and IT Department for conducting seminar & conferences.
<ul style="list-style-type: none">• Foreign Collaboration	<ul style="list-style-type: none">• IQAC congratulated MBA Department for the foreign collaboration and motivate the other department for collaboration with foreign university
<ul style="list-style-type: none">• NBA Accreditation	<ul style="list-style-type: none">• Four departments have decided to go for NBA and the respective departments started the preliminary work
<ul style="list-style-type: none">• Collaboration with foreign universities	<ul style="list-style-type: none">• MBA department signed an MOU with the University of Kelaniya, Sri Lanka.

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

- **TIST IEDC**(Innovation and Entrepreneurship Development Cell)
- **WORLD OUTSIDE PROGRAM**
- **TIFERS** (TIST Foundation for Economically Backward Rural Students)
- **TIST Consultancy Services Pvt Ltd.**-To promote entrepreneurship and facilitate young entrepreneurs to incubate their innovative ideas for transforming to products and services.

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

7.4 Contribution to environmental awareness / protection

- **Waste Management steps including:**
 - Solid waste management
 - Liquid waste management
 - E-waste management
- **Rain water harvesting structures and utilization in the campus**
- **Paperless office**
- **Green landscaping with trees and plants.**
- **Using Solar Energy in Computer Labs.**

7.5 Whether environmental audit was conducted? Yes No

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

8. Plans of institution for next year

- Improve the academic output
- Completion of Research projects
- NBA Accreditation

Name **Dr. P I Paulose**

Name **Prof.(Dr.) Justus Rabi**

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

_____***_____