

Toc H Institute of Science & Technology

Arakkunnam, Kerala-682313

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC ACADEMIC YEAR 2017-18 July 1, 2017 to June 30, 2018

Part - A

Data of the Institution

(Data may be captured from IIOA)

1. Name of the Institution: Toc H INSTITUTE OF SCIENCE AND TECHNOLOGY

- Name of the Head of the institution : Prof.(Dr.) Preethi Thekkath
- Designation: PRINCIPAL
- Does the institution function from own campus: YES
- Phone no./Alternate phone no.: (0484) 2748388, 2749600, 2738126
- Mobile no.: 9946509900
- Registered e-mail: mail@tistcochin.edu.in
- Alternate e-mail : naac.tist2017@gmail.com
- Address : ARAKKUNNAM
- City/Town : COCHIN
- State/UT : KERALA
- Pin Code : 682313

2. Institutional status:

- Affiliated / Constituent: Affiliated
- Type of Institution: Co-education/Men/Women Co-education
- Location : Rural/Semi-urban/Urban: RURAL
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing
(please specify) Self financing

- Name of the Affiliating University: APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY, COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY
- Name of the IQAC Co-ordinator : Asst. Prof. Sangeetha S
- Phone no. : 9809136958

Alternate phone no.

- Mobile: 9946509900
- IQAC e-mail address: naac.tist2017@gmail.com
- Alternate Email address: mail@tistcochin.edu.in

3. Website address: www.tistcochin.edu.in

Web-link of the AQAR: (Previous Academic Year): <http://tistcochin.edu.in/wp-content/uploads/2018/09/AQAR-2016-2017.pdf>

4. Whether Academic Calendar prepared during the year?

Yes/No....., if yes, whether it is uploaded in the Institutional website: YES

Weblink: <http://tistcochin.edu.in/academics/academic-calendar/>

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	B	2.71	2012	from:2012 to: 2017

6. Date of Establishment of IQAC: DD/MM/YYYY: 21/06/2010

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
IQAC Meeting	1/29/2018,1day	15
IQAC Meeting	5/5/2017,day	11
NBA Audit	13/10/2017-14/10/2017	4 Deaprtments
ISO Audit	16/08/2017-17/08/2017	

8. Provide the list of funds by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc. **NIL**

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
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NIL	NIL	NIL	NIL	NIL
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9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes

<http://tistcochin.edu.in/wp-content/uploads/2018/11/Notification-2018-19.pdf>

10. No. of IQAC meetings held during the year: 2

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website.....

Yes/No **Yes**

(Please upload, minutes of meetings and action taken report)

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

If yes, mention the amount: Year:

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

* Four Engineering Departments (CS, CS, ECE, ME) Received NBA Accreditation for 3

Years

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

Plan of Action	Achievements/Outcomes
<ul style="list-style-type: none"> FDP for faculty 	<ul style="list-style-type: none"> All Departments conducted/Planned FDPs during the Semester Break
<ul style="list-style-type: none"> Suggestions from Faculty regarding conduct of Valuation of answer script to KTU 	<ul style="list-style-type: none"> Suggestions are forwarded to principal through HOD
<ul style="list-style-type: none"> Placement details in the website 	<ul style="list-style-type: none"> Placement details uploaded in the website
<ul style="list-style-type: none"> NAAC Re-accreditation 	<ul style="list-style-type: none"> Asst Prof. Sangeetha S Is appointed as NAAC Coordinator. Prof. Dr. P. I Paulose and Prof. Dr. K J John to give the necessary framework.
<ul style="list-style-type: none"> NBA Accreditation by the remaining Engineering departments 	<ul style="list-style-type: none"> Remaining Departments started NBA work.

14. Whether the AQAR was placed before statutory body? Yes /No: **NO**

Name of the statutory body:

Date of meeting(s):

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

Yes/No: Yes

Date: 13/10/2017 and 14/10/2017

16. Whether institutional data submitted to AISHE: Yes/No: yes

Year: 2017-18

Date of Submission: 04/03/2018

17. Does the Institution have Management Information System?

No

Part-B

CRITERION I – CURRICULAR ASPECTS				
1.1 Curriculum Planning and Implementation				
1.1.1 Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words				
1.1.2 Certificate/ Diploma Courses introduced during the Academic year				
Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	focus on employability/ entrepreneurship	Skill development
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1.2 Academic Flexibility				
1.2.1 New programmes/courses introduced during the Academic year				
Programme with Code	Date of Introduction	Course with Code		Date of Introduction
		CE301-Design of Concrete Structures I		01/08/2017
		CE302-Design of Hydraulic Structures		01/08/2017
		CE303-Structural Analysis- II		01/08/2017
		CE304-Design of Concrete Structures II		01/08/2017
		CE305-Geotechnical Engineering- II		01/08/2017
		CE371 Environment and Pollution		01/08/2017
		CE 373 Advanced Mechanics of Materials		01/08/2017
		CS301-Theory of Computation		01/08/2017
		CS302-Design and Analysis of Algorithms		01/08/2017
		CS303-System Software		01/08/2017
		CS304-Compiler Design		01/08/2017

		CS305-Microprocessors and Microcontrollers	01/08/2017
		CS365 Optimization Techniques	01/08/2017
		EC301-Digital Signal Processing	01/08/2017
		EC302-Digital Communication	01/08/2017
		EC303-Applied Electromagnetic Theory	01/08/2017
		EC304-VLSI	01/08/2017
		EC305-Microprocessors & Microcontrollers	01/08/2017
		EC368 Robotics	01/08/2017
		EE301-Power Generation, Transmission and Protection	01/08/2017
		EE302-Electromagnetics	01/08/2017
		EE303-Linear Control Systems	01/08/2017
		EE304-Advanced Control Theory	01/08/2017
		EE305-Power Electronics	01/08/2017
		EE367 New and Renewable Energy Systems	01/08/2017
		CS304-Compiler Design	01/08/2017
		CS305-Microprocessors & Microcontrollers	01/08/2017
		HS300-Principles of Management	01/08/2017
		IT301-Software Architecture & Design Patterns	01/08/2017
		IT302-Internet Technology	01/08/2017
		IT367 Graph Theory	01/08/2017
		IT367 Computer Graphics & Multimedia-	01/08/2017
		EE311-Electrical Drives & Control for Automation	01/08/2017
		HS300-Principles of Management	01/08/2017
		ME301-Mechanics of Machinery	01/08/2017
		ME302-Heat & Mass Transfer	01/08/2017
		ME303-Machine Tools and Digital Manufacturing	01/08/2017
		ME367 Non-Destructive Testing	01/08/2017
		FS301-Planning and Design of Fire Protection Systems	01/08/2017
		FS302-Safety in Engineering Industry	01/08/2017

		FS303-Engineering Design and Drawing	01/08/2017
		FS304-Process Instrumentation and Control Engineering	01/08/2017
		FS305-Industrial Electronics and Safety	01/08/2017
		FS361 Fire Dynamics	01/08/2017
		FS363 Food and Biosafety	01/08/2017
		CE306-Computer Programming and Computational Techniques	03/01/2018
		CE307-Geomatics	03/01/2018
		CE308-Transportation Engineering- I	03/01/2018
		CE309-Water Resources Engineering	03/01/2018
		HS300-Principles of Management	03/01/2018
		CS306-Computer Networks	03/01/2018
		CS307-Data Communication	03/01/2018
		CS308-Software Engineering and Project Management	03/01/2018
		CS309-Graph Theory and Combinatorics	03/01/2018
		HS300-Principles of Management	03/01/2018
		CS368Web Technologies	03/01/2018
		EC306-Antenna & Wave Propagation	03/01/2018
		EC307-Power Electronics & Instrumentation	03/01/2018
		EC308-Embedded System	03/01/2018
		EC312-Object Oriented Programming	03/01/2018
		HS300-Principles of Management	03/01/2018
		EC370 Digital Image Processing	03/01/2018
		EC365 Biomedical Engineering	03/01/2018
		EE306-Power System Analysis	03/01/2018
		EE307-Signals and Systems	03/01/2018
		EE308-Electric Drives	03/01/2018
		EE309-Microprocessor and EmbeddedSystems	03/01/2018
		HS300-Principles of Management	03/01/2018
		EE372Biomedical Instrumentation	03/01/2018
		IT303-Theory of Computation	03/01/2018
		IT304-Data Warehousing & Mining	03/01/2018
		IT305-Operating Systems	03/01/2018
		IT306-Distributed Systems	03/01/2018
		IT307-Computer Networks	03/01/2018
		IT364 Software Project Management-	03/01/2018
		ME304-Dynamics of Machinery	03/01/2018
		ME305-Computer Programming & Numerical Methods	03/01/2018
		ME306-Advanced Manufacturing Technology	03/01/2018
		ME308-Computer Aided Design and Analysis	03/01/2018
		ME312-Metrology and Instrumentation	03/01/2018
		ME368 Marketing Management	03/01/2018
		ME372 Operations Research	03/01/2018
		FS306-Chemical Process Safety	03/01/2018
		FS307-Chemical Technology and Mechanical Operations	03/01/2018
		FS308-Structural Fire Safety	03/01/2018
		FS309-Occupational Health and First Aid	03/01/2018

		HS300-Principles of Management	03/01/2018
		FS362 Safety in Petroleum and Petrochemical Industries	03/01/2018
		FS366 Environmental Engineering and Management	03/01/2018
		CE364 Advanced Foundation Engineering	03/01/2018
		CE374 Air Quality Management	03/01/2018
		T4 – International Business	03/07/2017
		T4 - Business Analytics	03/07/2017
		T4- FINT45 Investment Management	03/07/2017
		T4- HRT44 Managing Self And Others	03/07/2017
		T4 - MKT42 Consumer Behaviour	03/07/2017
		T4- MKT45 Marketing Research	03/07/2017
		T4-FINT46 Financial Statement Analysis	03/07/2017
		T4- HRT41 Training And Development	03/07/2017
		MBA 51 Entrepreneurship	06/11/2017
		MBA 52 Business Ethics and Corporate Governance	06/11/2017
		MKT-T5-7 International Marketing	06/11/2017
		MKT- T5-10 Integrated Marketing Communication	06/11/2017
		FIN-T5-10 International Finance	06/11/2017
		HR-T5-9 Leadership, Power and Influence	06/11/2017
		FIN-T5-8 Security Analysis and Portfolio Management	06/11/2017
		HR-T5-11 HRM-Policy and Strategy	06/11/2017
		HR-T6-15 Human Resource Consulting – Profession And Practice	01/03/2018
		61 Cross Cultural Management	01/03/2018
		MKT-T6-15 Strategic Marketing	01/03/2018
		FIN-T6-13 Strategic Financial Management	01/03/2018

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the Academic year.

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
BTECH - CIVIL ENGINEERING	CE362 Ground Improvement Techniques			2018	
BTECH - CIVIL ENGINEERING	CE374 Air Quality Management			2018	
BTECH - CIVIL ENGINEERING	CE361 Advanced Concrete Technology			2017	
BTECH - CIVIL ENGINEERING	CE371 Environment and Pollution			2017	
BTECH - CIVIL ENGINEERING	CE1805 A E2 Advanced Construction Techniques and Field Quality Control			2017	
BTECH - CIVIL ENGINEERING	CE364 Advanced Foundation Engineering			2018	
B.TECH - COMPUTER SCIENCE(CS)	CS 361 Soft Computing			2017	
B.TECH -	CS 368 Web Technologies			2017	

COMPUTER SCIENCE(CS)					
B.TECH - ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)	EC365 Biomedical Engineering			2017	
B.TECH - ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)	EC 368 Robotics			2018	
B.TECH - ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)	EC 370 Digital Image Processing			2018	
B.TECH- ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)	EE1804 E4-Power Quality			2017	
B.TECH- ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)	EE367New and Renewable Energy Systems			2017	
B.TECH- ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)	EE372Biomedical Instrumentation			2018	
M TECH -EEE (POWER ELECTRONICS)		06EE 7 42 3- Industrial Instrumentation			2018
B.TECH - INFORMATION TECHNOLOGY	IT361-COMPUTER GRAPHICS & MULTIMEDIA			2017	
B.TECH - INFORMATION TECHNOLOGY	IT361-Graph Theory			2017	
B.TECH - INFORMATION TECHNOLOGY	IT364 - Software Project Management			2018	
BTECH - MECHANICAL	ME 372 Operation research			2017	

ENGINEERING(ME)					
BTECH - MECHANICAL ENGINEERING(ME)	ME 368 Marketing management			2017	
BTECH - MECHANICAL ENGINEERING(ME)	ME 367 Non destructive testing			2017	
BTECH - SAFETY AND FIRE ENGINEERING (SE)	FS361-Fire Dynamics			2017	
BTECH - SAFETY AND FIRE ENGINEERING (SE)	FS363 -Food and Biosafety			2017	
BTECH - SAFETY AND FIRE ENGINEERING (SE)	FS362-Safety in Petroleum and Petrochemical Industries			2018	
BTECH - SAFETY AND FIRE ENGINEERING (SE)	FS366-Environmental Engineering and Management			2018	
MASTERS IN BUSINESS ADMINISTRATION (MBA)		T5 MKT-T5- 7 - International Marketing			2017
MASTERS IN BUSINESS ADMINISTRATION (MBA)		T5 MKT- T5-10- Integrated Marketing Communication		2017	
MASTERS IN BUSINESS ADMINISTRATION (MBA)		T5 FIN-T5- 10- International Finance		2017	
MASTERS IN BUSINESS ADMINISTRATION (MBA)		HR-T5- 9 - Leadership Power and Influence		2017	
MASTERS IN BUSINESS ADMINISTRATION (MBA)		T5 FIN-T5- 8 - Security Analysis and Portfolio Management		2017	
MASTERS IN BUSINESS ADMINISTRATION (MBA)		HR-T5- 11 -HRM- Policy and Strategy		2017	
MASTERS IN BUSINESS		T4- FINT45- INVESTMENT		2017	

ADMINISTRATI ON (MBA)		MANAGEMENT			
MASTERS IN BUSINESS ADMINISTRATI ON (MBA)		T4- HRT44 - MANAGING SELF AND OTHERS		2017	
MASTERS IN BUSINESS ADMINISTRATI ON (MBA)		T4 - MKT42- CONSUMER BEHAVIOUR		2017	
MASTERS IN BUSINESS ADMINISTRATI ON (MBA)		T4- MKT45 - MARKETING RESEARCH		2017	
MASTERS IN BUSINESS ADMINISTRATI ON (MBA)		T4-FINT46 - FINANCIAL STATEMENT ANALYSIS		2017	
MASTERS IN BUSINESS ADMINISTRATI ON (MBA)		T4- HRT41- TRAINING AND DEVELOPMENT		2017	
Already adopted (mention the year)					
1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year					
	Certificate	Diploma Courses			
No of Students	274	---			
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		
3 days' workshop on "Ethical Hacking"		15 th to 17 th January 2018	25		
Soft Skill Training by Insight Job Guru for 2014,2015 and 2016 Admission Students		2017-18	1240		
Aptitude & Soft skill training		2017-18	61		
Industry internship program		2017-18	61		
DAIKIN Training		2017-18	4		
1.3.2 Field Projects / Internships under taken during the year					
Project/Programme Title			No. of students enrolled for Field Projects / Internships		
B.Tech Civil Engineering			63		
B.Tech Mechanical Engineering			47		
BTech Computer Science and Engineering			60		
B. Tech, IT			23		
B Tech in Safety and Fire Engineering			22		
B.Tech-ECE			152		
BTech in Electrical and Electronics Engineering			15		
PG (MBA)			33		
1.4 Feedback System					
1.4.1 Whether structured feedback received from all the stakeholders.					

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

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

Students Feedback

The feedback questionnaire is administered online to all the students in each semester. The students rate the faculty based on ten criteria viz. audibility and clarity of lecture, ability to communicate effectively, ability to explain finer points, encourage questions and attempts to answer them, motivate students to learn the subjects, self confidence of faculty, faculty student relationship, fairness in evaluation of tests and assignments, usage of objective board and observing class timing, on a rating scale from 1 to 10, indicating unsatisfactory to excellent. The feedback analysis is done in each department and the rating for each criteria, along with its graphical representation, is evaluated by the respective HODs. It is also monitored by the Dean (Academics) and the Head of the Institution. The contents of the feedback will be shared with each faculty member individually for self evaluation. HODs will have a personal interaction with the concerned faculty who are having low rating and guide them to take corrective measures to improve in future.

In every academic year, the best faculty from each department is chosen and given 'Best Faculty Award'. One of the selection criteria for this is based on students' feedback.

Exit Feedback Form

Exit Feedback Form is a three page questionnaire which is filled by the final year students of each department. The form consists of descriptive and objective type questions regarding the effectiveness of the course, academic environment, and the facilities provided by the department and institution. The feedback and the suggestions are handed over it to the Department of Psychology & Counselling. The counsellors convey the feedback to the respective HODs and the Head of the Institution for remedial action and follow-up.

Programme Exit Survey

Programme Exit Survey is taken from the final year students in each department. It is a questionnaire regarding academic areas such as lifelong learning, ability to apply engineering concepts, opportunity for working in multidisciplinary project teams and so on .The data is analyzed by the respective department and feedback is given to the Head of the Institution. The respective HODs, in consultation with the head of the Institution, will initiate follow up action.

Feedback Form for Faculty

HODs collect Faculty Feedbacks in every academic session and analysis report submitted to the Principal. Actions are taken on the basis of the report.

Employer Feedback

Employer Feedback is taken from employers of placed students. The data is compiled and future placement trainings are planned and designed accordingly.

Alumni Feedback

Alumni Feedback is taken from Alumni on a regular basis. Employed and self-employed alumni are encouraged to participate and indicate the levels of abilities acquired from the programs undergone.

Parents Feedback

Parents Feedback is taken on a regular basis incorporating their assessment of all matters relating to infrastructure, teaching-learning, hostel, security, transportation, curricular and co-curricular activities.

CRITERION II - TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled

Electronics & communication engg	90	387	26
Computer science & engg.	60		53
Electrical & electronics engg.	60		31
Mechanical engg.	120		101
Civil engg.	60		56
Information technology	30		12
Safety & fire engg.	60		41
M.Tech in Computer Science & Engineering (Data Security)	24	6	6
M.Tech in Computer Science & Engineering (Networks)	24	0	0
M.Tech in Wireless Technology	18	1	1
M.Tech in VLSI and Embedded Systemes Designs	18	3	3
M.Tech in Construction Engineering and Management	24	24	24
M.Tech in Power Electronics	24	3	3
M.tech in Mechanical Engineering (Thermal Engineering)	24	0	0
Master of Business Administration	60	35	35

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017	1674	134	92	19	42

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-	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used

	<i>Resources)</i>		s		
139	163	TV,Projector, Laptop with wifi connectivity, Desktop Computer	44	30	NPTEL, MOOCS,WEBINARS, Digital Library of TIST, IEEE E-ASPP +POP Packages, ELSEVIER,EMERALD MANAGEMENTFIRST- 120,DELNET,NATIONAL DIGITAL LIBRARY

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

Mentoring is provided for the overall development of the students. Every faculty is entrusted with the task of mentoring. The mentors develop a close relationship with the students and help them to improve their learning skills and also closely monitor their progress in studies and holistic development. The faculty mentor will not change till the student leaves the department and he/she will maintain the personal details of the students. If there is any serious problem felt by the mentor, he/she will refer the student to the counsellor of the college.

If the problem assumes serious proportions, the matter will be referred to professional counsellors like the Director in the management team who is a senior counsellor (with over 40 yrs of experience in counselling). Parent- teacher interactive meetings are conducted regularly in order to keep the parents well informed of the progress or difficulties of their wards. If the student is in need of psychiatric help he is referred to a psychiatrist.

Mentor forms which consist of personal details of the students such as address, whether a hostler/day-scholar, academic details, attendance, academic difficulties, if any professional help is needed, whether an active or indifferent to mentoring, all round development of the student, vulnerability to drug/alcohol abuse.

In addition to this form, each mentor maintains a separate individual mentor form for each student, in which details of the mentoring sessions would be entered. Ideally the mentor should meet the student thrice in each semester, the first session preferably two weeks after the commencement of the new semester, the second after the first Internal Assessment and the third after the model examinations.

The consolidated mentor forms are passed on to the psychology department in each semester for professional counselling, remedial action, follow up and analysis. A separate file is maintained in the department with the details of the student needing professional help. Regarding the remedial action, the mentor arranges special academic help for students who need help. The counsellors maintain follow-ups by regularly reviewing the mentor forms. Counsellors have developed a mentor analysis form and based on the analyzed data; feedback is given to the respective HODs and the Head of the Institution. The HODs then have a personal discussion with the mentors on the areas that can be focused into and if needed the Head of the Institution can have an interaction with the mentors, focusing on corrective measures.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1810	153	1:15

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned	No. of filled positions	Vacant	Positions	No. of faculty with
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positions		positions	filled during the current year	Ph.D
163	163	0	17	20

2.4.2 Honours and recognitions received by teachers

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

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2017	Dr. Rasmi P.S	Associate Professor	Life Achievement Award, Venus International Women Award, 3rd Annual Womens Meet, Chennai.
2017	Ms. Elsaba Jacob, National Level	Assistant Professor	Longest Continuous SBC Award
2017	Prof.Lathi Karthi	Professor, Head of the Department	Life Achievement Award, Venus International Women Award, 3rd Annual Womens Meet, Chennai.

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
B.Tech (CE,CS,ECE,ME,T,EEE,SF)		S1	24/11/2017	16/02/2018
		S3	24/11/2017	08/03/2018
		S5	24/11/2017	28/03/2018
		S7	13/10/2017	31/1/2018
		S2	12/04/2018	1/08/2018
		S4	12/04/2018	22/08/2018
		S6	12/04/2018	08/10/2018
		S8	16/03/2018	06/06/2018
M.Tech (Data Security, Network Computing, VLSI, Wireless, Power Electronics, Thermal Engg, Construction Engg)		S1	24/11/2017	14/03/2018
		S3	24/11/2017	14/03/2018
		S2	12/04/2018	17/09/2018

		S4	12/04/2018	03/07/2018
MBA		T1	06/10/2017	16/02/2018
		T2	10/1/2018	06/04/2018
		T3	16/04/2018	01/10/2018
		T4	06/10/2017	07/03/2018
		T5	09/01/2018	11/05/2018
		T6	11/05/2018	27/06/2018

2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Before the start of the semester Academic calendar is displayed on college notice board and website, through student induction programmes and PTA meetings. Being an affiliated college, the internal and external evaluation schemes followed are as prescribed by the university. The evaluation process is given in the college prospectus there. Proper conduct and Transparency are ensured by exams cell, observer appointed by university and CCTV camera. The university question papers are generated online and will be received only half an hour prior to the commencement of university exam. Instructions are displayed in all halls to intimate the students.

For Internal Exams, question papers set by each faculty based on RBT Considering advanced and slow learners by following a common pattern of difficulty level- 30% difficult, 40% average and 30% easy questions. The input based on easy, average and difficult questions enable the designing the tutorial and remedial hours Before the start of the semester Academic calendar is displayed on college notice board and website, through student induction programmes and PTA meetings. Question bank with answers keys are given to the students. The internal evaluation for theory courses consists of the following assessment tools are internal Assessment , two assignments are conducted as per university syllabus additionally three class test and additional one assignment are also held per semester.

As per curriculum, the students have to carry out a major project in end semesters. Students are advised and encouraged to identify their areas of interest in line with the recent research and development. This is achieved by interaction with faculty, technical experts from industry and literature review. The scrutinized topics are presented before an expert committee comprising of Head of the Department, 2senior faculty, project co-coordinators and the project guide. The project guides regularly monitor the progress of project based on weekly discussions. Interim Presentation is done. by each project group before the expert committee. The committee of internal examiners along with the guide will evaluate the final project/research work.

2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

University academic calendar is strictly adhered to. For planned coverage of syllabus and criterion evaluation, a separate academic calendar is prepared by a committee headed by Dean Academics and it is communicated to all departments for strict compliance. This calendar will indicate all academic, co curricular and extracurricular activities. Namely The commencement of the semester, Class committee and Course Committee meetings, Arts/sports and other festivals and celebrations, Submission of internal marks, Closing of attendance, University exams, Internal assessment test, Model exam, End of the semester, Seminars, Workshop, Technical fest, Schedule for practical exams as specified by CUSAT and KTU, Last date for announcement of shortage of attendance, Last working day.

In the light of college academic calendar, each faculty prepares a course plan. According to this course plan the course syllabus is covered at appropriate pace including proper revisions prior to the commencement of the university examination. A model/Practice examination is also conducted for all courses in accordance with university question pattern.

KTU Academic Audit: External academic auditor physically verifies all internal audit statements twice in a semester at the college. The academic auditing shall cover course delivery, syllabus covered, adherence to course plan, timely conduct of internal exams and publishing of internal marks, course committee and class committee minutes, students' grievances, welfare, discipline committee functioning and their minutes.

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)

Civil Engineering	http://tistcochin.edu.in/ce/peo-po-psy/
Computer Science & Engineering	http://tistcochin.edu.in/cs/peo-po-psy/
Electrical & Electronics Engineering	http://tistcochin.edu.in/eee/goals/
Electronics & Communication Engineering	http://tistcochin.edu.in/ec/goals/
Information Technology	http://tistcochin.edu.in/it/goals/
Mechanical Engineering	http://tistcochin.edu.in/me/peo-po-psy/
Safety and Fire Engineering	http://tistcochin.edu.in/sf/goals/
MBA	http://tistcochin.edu.in/mba/peo-po-psy/

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
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Under Graduate

B.Tech	BTECH (Information Technology)	35	17	49
	BTECH (Civil Engineering)	63	55	87
	BTECH (Electrical & Electronics Engineering)	48	35	73
	BTECH (Mechanical Engineering)	122	47	39
	BTECH (Safety and Fire Engineering)	62	30	48
	BTECH (Computer Science & Engineering)	61	42	69
	BTECH (Electronics & Communication Engineering)	120	63	53

Post Graduate

M Tech	MTECH (Construction Engineering And Management)	17	17	100.00
	MTECH (Power Electronics)	1	1	100.00
	MTECH (Thermal Engineering)	2	2	100.00
	MTECH (Computer Science & Engineering - Data Security)	1	1	100.00
	MTECH (VLSI and Embedded Systems Design)	4	4	100.00
	MTECH (Wireless Technology)	1	1	100.00
	MBA	37	37	100.00

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as web link)

<http://tistcochin.edu.in/campus-life/exit-feedback-survey/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Resource Mobilization for Research				
3.1.1 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 Academic year
Major projects	3Yrs	Ajaco software Pvt Ltd	7 Lakhs	50000/-
	2	KTU support	supercomputing facility provided by KTU	NIL
	2	KTU support	supercomputing facility provided by KTU	NIL
Minor Projects	36 months	The Institution of Engineers	150000/-	Amount 30000/-
Interdisciplinary Projects	NIL	NIL	NIL	NIL
Industry sponsored Projects	NIL	NIL	NIL	NIL
Projects sponsored by the University/ College	NIL	NIL	NIL	NIL
Students Research Projects (<i>other than compulsory by the College</i>)	NIL	NIL	NIL	NIL
International Projects	NIL	NIL	NIL	NIL
Any other (Specify)	NIL	NIL	NIL	NIL
Total	4			
3.2 Innovation Ecosystem				
3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year				
Title of Workshop/Seminar			Name of the Dept.	Date(s)
Cost effective Airport Construction-Success Story of CIAL Airport			CE	11/08/2017
Fusion 360			CE	11/08/2017
FEAST(Finite Element Analysis Of Structures)			CE	25/08/2017
Making Of Kochi Metro From Alwaye to Petta			CE	15/09/2017
Case Study of NDT Test in Kerala			CE	22/09/2017

Talk on LUMION software	CE	02/02/2018
Concrete cube casting competition	CE	08/02/2018
Talk on Software applications in civil engineering	CE	08/02/2018
Seminar on Myths about startup	CE	12/10/2017
Workshop on Zeo energy Zero discharge buildings	CE	05/01/2018
Department of IT in association with ISTE TIST Chapter conducted a 5 day Faculty Development Programme on "Advanced Web Technologies" on 12 th to 16 th June 2017.	IT	12/06/2017-16/06/2017
S2 IT students had an orientation programme conducted by Mr.Renju Kuruvilla Kurian on 5 th January 2018 in associated ICTAK.	IT	05/01/2018
Department organized a 3 days workshop to S6 IT on "Ethical Hacking" which was conducted by LiveWire Technologies, Muvatupuzha in association with ISTE TIST student Chapter	IT	15/01/2018-17/01/2018
Faculty development programme on " IOT and its Applications in Electrical Domain " organised by Pantech ProEd Pvt Ltd in association with EEE Department	IT	19,20,21/06/2017
A free hands-on workshop on "PCB Designing" was conducted by Livewire, Muvattupuzha	EEE	12 /10/2017.
A seminar on "Electrical Energy Conservation and Technology" was delivered by Mr. Jayaraman Ex. Senior Manager BPCL Ltd and immediate past general Secretary of Society for Energy Engineers and Managers (SEEM)	EEE	30/01/2018.
Technical talk on " Grid tied Solar Inverters" was conducted by Paulose Sir (Dept. of EEE, TIST)	EEE	07/17
Safety norms in Electrical Engg By K J Saju	EEE	03/18
Technical talk on "An Exposure to Startup" was conducted by JuhaimIbunu Abdul Jabbar (2010 -2014 Batch) alumini EEE department and Founder CEO (Ridelogic .Co , Bengaluru)	EEE	21/08/2017
Recent trends & technologies inComputer Science	CS	14/07/17
HTML and CSS Workshop	CS	25/07/17
IOT & Big Data: Two sides of same coin?	CS	18/08/17
SiliconValley Journey	CS	18/08/18
Entrepreneurship Motivation	CS	18/08/19
Fiction to Reality Using Technology	CS	29/08/17
Android Development Mobile Application Development	CS	22/09/17 - 23/09/17
Workshop on Software Technologies	CS	28/09/17
The Future Currency - Bitcoins	CS	27/09/17
Mozilla web testing	CS	4/10/2017
Linux LAN	CS	5/10/2017
Android Hands on workshop	CS	11/10/2017
IPV6,VPN,IPSeC	CS	19/10/2017 - 20/10/2017

Android Hands on workshop	CS	25/10/2017
The Infosys Story (Webinar)	CS	25/10/2017
Humonoid From God's Own Country (Webinar)	CS	22/11/2017
Scope of Security in Industry	CS	04/01/2018
Seminar on Linux Administration	CS	11/1/2018
IOT	CS	15/1/18
Two day Workshop was organized on "PCB DESIGN"	ECE	18,19/05/2017
Two day workshop was organized on "PCB LAYOUT"	ECE	30/06/ 2017 & 1/07/2017
Two day Hands on training workshop was organized on "NETWORK SIMULATOR"	ECE	8/06/2017, 9/06/2017
Two day Workshop on "IoT using MSP 430"	ECE	06/07/2017, 07/07/2017
Social Outreach Programme "Enlighten 2 Phase 1" at St. George HSS,Arakkunnam	ECE	10/07/ 2017
Social Outreach Programme "Enlighten 2 Phase 1" at St. Ignatius HSS,Kangiramattom	ECE	15/07/2017
Technical Talk on "Electronic Product Design"	ECE	20/07/2017
Two day workshop was organized for faculty on "Raspberry pi"	ECE	28/07/2017, 31/07/ 2017
Two day workshop was organized on "IoT based Embedded System Design"	ECE	02/08/2017, 03/08/2017
Technical fest "ECLECTIC 2017"	ECE	24/08/2017, 25/08/2017
One day workshop on "UI/UX Design"	ECE	24/08/ 2017
One day workshop on "Wearable Technology"	ECE	25/08/ 2017
Two day workshop " IoT & Cloud"	ECE	06/10/2017, 07/10/2018
Technical Talk on "Future trends in Electronics Industry" by Keltron	ECE	16/01/ 2018
Technical Talk on "Multiple Access"	ECE	29/01/ 2018
Two day FDP on "Layout Design and Analysis of Analog Integrated Circuits using Cadence Tools"	ECE	15/02/2018, 16/01/2018
Technical Talk on Embedded Systems & IOT" by Keltron	ECE	15/01/ 2018.
Mock Fire fighting	SF	9/10/2017
Training on First aid and CPR procedure	SF	4/11/2017
Safety day celebration - workshop	SF	3/3/2018
Suraksha Surabhi	SF	21/3/2018
3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year		

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
NIL				
3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year				
Incubation Centre	Name		Sponsored by	
IEDC	Innovation and Entrepreneurship Development Center		Kerala Startup Mission	
3.3 Research Publications and Awards-NIL				
3.3.1 Incentive to the teachers who receive recognition/awards				
State	National		International	
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3.3.2 Ph. Ds awarded during the year (applicable for PG College, Research Center)NIL				
Name of the Department		No. of Ph. Ds Awarded		
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3.3.3 Research Publications in the Journals notified on UGC website during the year				
	Department	No. of Publication	Average Impact Factor, if any	
National	0	0	0	
International	MATHS	2	0.4	
International	MBA	6	0.48	
International	ECE	2	0.15	
International	ME	1	0	
International	CS	3	5.94	
3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year				
Department		No. of publication		
CE		41		
CS		3		
ECE		16		
EEE		7		
ME		11		
SH		2		
SF		3		
3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index				

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
NIL						

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

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
NIL						

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	1	41	7	50
Presented papers	28	14		
Resource Persons			3	

3.4 Extension Activities

3.4.1 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 co-ordinated such activities	Number of students participated in such activities
Housewives computer training	NSS	3	15
Seven day special camp Pakalvedu, Oorakam.	TIST NSS Unit	1	16Boys,4 girls
Special School Visit		1	50
Women empowerment Programme	Edakkattuvayal panchayath	1	50
Orphanage visit	TIST NSS unit	1	50
Blood Donation	IMA	1	50
Free Rice distribution	KARMA	1	50
Conduct awareness class on Child Abuse in nearby schools	KARMA	1	50
Karma - Orupidi Ari	Karma	2	10
Suraksha Surabhi	Students and Faculty	1	8

One day workshop on digital village		Community	5	40
3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year				
Name of the Activity	Award/recognition	Awarding bodies		No. of Students benefited
AMATEUR Wireless Station	License No.39445	Ministry of Communication & IT, Department of Telecommunication Wireless Planning & Co-ordination wing, Government of India.		
Techfest – Maker Summit	Appreciation	Kerala State Council for Science Technology and Environment		
Quadcopter	Appreciation	NIT, Tiruchirappalli		
Smart India Hackathon	Appreciation	Department of Empowerment of Persons with Disabilities, Hyderabad		
3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
Swachh Bharat	Edakkattuvayal panchayath	Keep city clean - City cleaning mission at Arakkunnam	2	50
Swachh Bharat	TIST NSS unit	Campus Cleaning	2	50
3.5 Collaborations				
3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year				
Nature of Activity		Participant	Source of financial support	Duration
Student and Faculty Internships/ Trainings, Students On The Job Training		DAIKIN AIRCONDITIONG INDIA PRIVATE LTD.		
Student Training		CADD Centre, Piravom		
Student/ faculty Training, field Visits		HMT Machine Tools LTD., Kalamassery		
Research		Cochin University of Science & Technology, Cochin		
S2 IT students had an orientation programme conducted by Mr.Renju Kuruvilla Kurian on 5 th January 2018 in associated ICTAK.		ICTAK		5/1/2018(1 day)
Department organized a 3		ISTE		15/01/2018-

days workshop to S6 IT on "Ethical Hacking" which was conducted by LiveWire Technologies, Muvatupuzha in association with ISTE TIST student Chapter			17/01/2018 (3 days)
Internship	Kinfra		07/17/2017
Internship	FACT		07/14/2017
Internship	TELK		07/13/2017
Internship	FACT		07/12/2017
Internship	Greenturn C&W Energy Pvt. Ltd.		29/06/2017
Internship	BSNL		27/06/2017
Internship	OEN		26/06/2017
Internship	IHRD		24/06//2017
Internship	Cochin Shipyard Ltd		19/06/2017
Internship	Digital Core Technologies		12/06/2017
Internship	Whirlpool		12/06/2017
Internship	Digital Core Technologies		6/12/2017
Internship	Dubai Hospital		12/06/2017
Field Trip	Idukki Dam		24/02/2018
Field Trip	Advanced Centre for Atmospheric Radar Research (ACARR) -CUSAT		21/02/2018
Field Trip	Keltron (Govt. of Kerala Undertaking)		20/01/2018
Field Trip	Kerala Electrical & Allied Engineering Co.Ltd. Mammala.		26/08/2017
Field Trip	Marine Electricals, Goa		22/07/2017
Internship	Cochin Shipyard Limited, Kochi		22/05/2017 to 01/06/2017
Internship	Cochin Shipyard Limited, Kochi		24/07/2017 to 29/07/2017
Internship	Delhi Metro Rail Corporation Ltd., Kochi		10/06/2017 to 17/06/2017
Internship	Dream Flower Housing Projects Pvt. Ltd., Kochi		15/05/2017 to 30/05/2017
Internship	Dream Flower Housing Projects Pvt. Ltd., Kochi		24/05/2017 to 10/06/2017
Internship	Elhanan Management Services Pvt. Ltd., Bangalore		08/06/2017 to 19/06/2017
Internship	Greentech Builders, Kochi		03/07/17 to 19/07/2017
Internship	Kent Constructions Pvt. Ltd., Kochi		17/05/2017 to 03/06/2017
Internship	Kool Homes Builders Pvt. Ltd., Kochi		
Internship	Kunnel Engineers & Contractors (P) Ltd., Kochi		21/06/2017 to 08/07/2017
Internship	Kunnel Engineers &		05/07/2017 to

	Contractors (P) Ltd., Kochi		20/07/2017
Internship	L&T Hydrocarbon Engineering Ltd., Mumbai		29/05/2017 to 12/06/2017
Internship	Mary Matha Construction Company, Ernakulam		29/05/2017 to 07/06/2017
Internship	Olive Builders & Developers Pvt. Ltd., Kochi		03/07/17 to 18/07/2017
Internship	Qatar Design Consortium WLL, Doha		23/05/2017 to 12/06/2017
Internship	Skyline Foundations & Structures Pvt. Ltd., Kochi		17/07/2017 to 22/07/2017

3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participa nt
Centre of Excellence in Air Conditioning	Student and Faculty Internships/ Trainings, Students On The Job Training	DAIKIN AIRCONDITIONG INDIA PRIVATE LTD.		
Training	Student Training	CADD Centre, Piravom		
Training	Student/ faculty Training, field Visits	HMT Machine Tools LTD., Kalamassery		
	Research	Cochin University of Science & Technology, Cochin		
	S2 IT students had an orientation programme conducted by Mr.Renju Kuruvilla Kurian on 5 th January 2018 in associated ICTAK.	ICTAK	5/1/2018(1 day)	
	Department organized a 3 days workshop to S6 IT on "Ethical Hacking" which was conducted by LiveWire Technologies, Muvatupuzha in association with ISTE TIST student Chapter	ISTE	15/01/2018-17/01/2018 (3 days)	
	Internship	Kinfra	7/17/2017	
	Internship	FACT	7/14/2017	
	Internship	TELK	7/13/2017	
	Internship	FACT	7/12/2017	
	Internship	Greenturn C&W Energy Pvt. Ltd.	6/29/2017	
	Internship	BSNL	6/27/2017	
	Internship	OEN	6/26/2017	
	Internship	IHRD	6/24/2017	

	Internship	Cochin Shipyard Ltd	6/19/2017	
	Internship	Digital Core Technologies	6/12/2017	
	Internship	Whirlpool	6/12/2017	
	Internship	Digital Core Technologies	6/12/2017	
	Internship	Dubai Hospital	6/4/2017	
	Field Trip	Idukki Dam	2/24/2018	
	Field Trip	Advanced Centre for Atmospheric Radar Research (ACARR) - CUSAT	2/21/2018	
	Field Trip	Keltron (Govt. of Kerala Undertaking)	1/20/2018	
	Field Trip	Kerala Electrical & Allied Engineering Co.Ltd. Mammala.	8/26/2017	
	Field Trip	Marine Electricals, Goa	7/22/2017	
Internship	Internship	Cochin Shipyard Limited, Kochi	22-05-2017 to 01-06-2017	
Internship	Internship	Cochin Shipyard Limited, Kochi	24-07-2017 to 29-07-2017	
Internship	Internship	Delhi Metro Rail Corporation Ltd., Kochi	10-06-2017 to 17-06-2017	
Internship	Internship	Dream Flower Housing Projects Pvt. Ltd., Kochi	15-05-2017 to 30-05-2017	
Internship	Internship	Dream Flower Housing Projects Pvt. Ltd., Kochi	24-05-2017 to 10-06-2017	
Internship	Internship	Elhanan Management Services Pvt. Ltd., Bangalore	08-06-2017 to 19-06-2017	
Internship	Internship	Greentech Builders, Kochi	03-07-17 to 19-07-2017	
Internship	Internship	Kent Constructions Pvt. Ltd., Kochi	17-05-2017 to 03-06-2017	
Internship	Internship	Kool Homes Builders Pvt. Ltd., Kochi		
Internship	Internship	Kunnel Engineers & Contractors (P) Ltd., Kochi	21-06-2017 to 08-07-2017	
Internship	Internship	Kunnel Engineers & Contractors (P) Ltd., Kochi	05-07-2017 to 20-07-2017	
Internship	Internship	L&T Hydrocarbon Engineering Ltd.,	29-05-2017 to 12-06-	

		Mumbai	2017	
Internship	Internship	Mary Matha Construction Company, Ernakulam	29-05-2017 to 07-06-2017	
Internship	Internship	Olive Builders & Developers Pvt. Ltd., Kochi	03-07-17 to 18-07-2017	
Internship	Internship	Qatar Design Consortium WLL, Doha	23-05-2017 to 12-06-2017	
Internship	Internship	Skyline Foundations & Structures Pvt. Ltd., Kochi	17-07-2017 to 22-07-2017	

3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
Nansen Environmental Research Centre (India), Cochin, India and Nansen Environmental and Remote Sensing Center, Bergen, Norway.	2018	Submitted a joint research project	1
HMT Machine Tools LTD., Kalamassery	9/22/2017		
CADD CENTRE, PIRAVOM	9/22/2017		
RedHat	9/25/2017	Industrial Revlution 4.0, 2017	180
KELTRON	7/26/2017	Workshop on Embedded Systems using PIC Microcontroller	20
		Industrial Visit to KELTRON ARROR	50
H S and E Institute Pvt Ltd	May-17	Training for Combination of NEBOSH, IGC,IOSH MS, Medic First Aid and HABC Certification	12
DAIKIN AIRCONDITIONG INDIA PRIVATE LTD.	3/11/2017	1. Internship in Daikin Plant (15th May - 24th June)	4 students
		2. Train the Trainer Program (17 - 21st July 2017)	2 Faculty
		3. Training on Inverter Technology (Oct 17, 2017)	25 Faculty
		4. TIST-KITCO Employment Enhancement Program. Course on HVAC and Plumping (May 3rd - Jue 18th 2016)	26 students and 3 faculty
CADD CENTER,COCHIN	2/7/2017		
CADD Centre Training Service Pvt. Ltd. M/s	2/7/2017	Training Programme on Revit for S5 Students (2015 Admission)	23

Shivasree Education, Piravom							
Digital Shark Technology		3/14/2017	FDP on IoT		15		
			Workshop on IoT		35		
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				
35 Lakhs			93.26 %				
4.1.2 Details of augmentation in infrastructure facilities during the year							
Facilities		Existing		Newly added			
Campus area		26.6Acres					
Class rooms		51		0			
Laboratories		50		0			
Seminar Halls		6		0			
Classrooms with LCD facilities		29		0			
Classrooms with Wi-Fi/ LAN		17		0			
Seminar halls with ICT facilities		7		0			
Video Centre		0		0			
No. of important equipments purchased (\geq 1-0 lakh) during the current year.				2			
Value of the equipment purchased during the year (Rs. in Lakhs)				8.24993 Lakhs			
Others				NIL			
4.2 Library as a Learning Resource							
4.2.1 Library is automated {Integrated Library Management System -ILMS}							
Name of the ILMS software		Nature of automation (fully or partially)		Version		Year of automation	
LMS		Fully		Inhouse Developed		2012	
4.2.1 Library Services:							
		Existing		Newly added		Total	
		No.	Value	No.	Value	No.	Value
Text Books		34583	14141604	2510	1196565	37093	15338169
Reference Books		12599	5819110	1346	596674	13945	6415784
e-Books		e books from e journals ,DELNET &NDL Library					
Journals		1417	2109729	169	342897	1586	2452626
e-Journals		6579	9023380	5	2074694	5	11098074
Dig ita l Dat	Seminar Report	643	0	54	0	697	0

aba se	Project Report	761	0	76	0	837	0
	Question Papers	414	0	104	0	518	0
CD & Video		1499	0	48	0	1547	0
Library automation							
Weeding (Hard & Soft)							
Others (specify)							

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	587	14	47Mbps	1	1	1	11	47Mbps	
Added	01	0	33Mbps				0	33Mbps	
Total	588	14	80Mbps	1	1	1	11	80Mbps	

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

>=50 MBPS 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
DIGITAL LIBRARY & INFORMATION CENTRE	http://172.16.7.50/

4.3.4 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 -NIL

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e-content
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4.4 Maintenance of Campus Infrastructure

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

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
689.47 Lakhs	570.06	35 Lakhs	91.29

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)

<http://tistcochin.edu.in/about-us/tist-highlights/#1519801440339-0b2e8059-84e7>

The institution has the policy of replacing or upgrading the existing equipment to meet the changes in the syllabus made by the university from time to time. The campus is spread over 26.08 Acres of land.

Infrastructure: The Aryabhata Block accommodates Principal, Board room, Administrative office, Examination cell, Seminar hall, Training and Placement cell and the departments of Electronics and Communication engineering, Management Studies (MBA), Prayer Room, Yoga Room, etc..

The Einstein Block houses departments of Electrical and Electronics engineering, Computer Science engineering, Science & Humanities, Information Technology, common Computer Centre, Central library, Science & Humanities and Mathematics. Visvesvaraya Block accommodates departments of Mechanical engineering, Civil Engineering & Safety and Fire Engineering.

All the 3 blocks are fully equipped with the necessary infrastructure, adequate class rooms, seminar halls, tutorial halls, laboratories, space for academic activities and individual departmental libraries.

Class Rooms: Well-furnished, ventilated, spacious class rooms for conducting theory classes. Lighting is provided with good acoustics. All the class rooms of individual departments are at close proximity in order to have better access for the students. Each department is also being provided with tutorial classroom.

ICT facilities: Multimedia facilities providing audio-visual equipment and Webinar center which facilitates video conference for effective learning process. In the departments of the institution are equipped with latest projectors for effective teaching through video lectures. Also the students are supported by the faculty to present their seminar topics using the ICT facilities. Each room has a seating capacity of 60 and all departments are provided with sufficient number of LCD projectors, Wi-Fi and LAN enabled internet connectivity.

The institute continuously keeps upgrading the internet bandwidth as latest teaching methods demand the usage of NPTEL/Webinars etc. A separate server with HDD is being maintained exclusively for NPTEL video streaming within the campus.

Common Computer Facility/Language Lab: A common computing room measuring 305 sq.m with 71 computers and LAN and internet facility is available for faculty and students.

Smart Classroom: The each department has one Smart class room with all advanced teaching and learning aids with a seating capacity of 60

Seminar Hall: The College has modern, well equipped seminar halls for organizing workshops and seminars.

Laboratories: All laboratories are well equipped, and well maintained not only for carrying out curriculum-oriented practical, but also to carry out experiments beyond curriculum.

Specialized facilities and equipment for teaching learning and research: The College has an English communication skills lab where the students practice and test their communication skills. Apart from the central library, each department is having separate department library with a good collection. For self learning, reference books for all the subjects are available in the central library.

INDOOR SPORTS FACILITIES

Indoor sports facilities have a Basketball Court (26 meters x 15 meters), Two Badminton courts (18 meters x 15 meters), and facility to play Table Tennis.

OUTDOOR SPORTS FACILITIES

Outdoor Sports facilities have a Main ground (100 meters x 80 meters) where Soccer, Cricket and Track & Field events are conducted. Apart from these there are Basketball court (30 meters x 20 meters), Volleyball court (30 meters x 18 meters), Cricket practice nets(30 meters x 20 meters) established in the year 2006. An average of 250 students avail the facilities on all working days; another 100 hostelites avail on all other days. Events like, Inter Collegiate and Inter Department

tournaments are conducted in these facilities.

Facilities for Cultural Activities

There are three main facilities to conduct cultural events, **Dr. Radhakrishnan Hall** (720M²), **Amrithya Sen Hall** (202M²), **Indira Gandhi Indoor Auditorium** (1000M², was established in the year 2006..Events like , Inter Department Cultural Competitions (MUDRA - Arts Day), Inter Collegiate Competitions (ADVAY - College Fest), are conducted here. Facility for Music & Dance Practice, Annual Day Celebration, Onam & Christmas Celebration are also organized in these facilities.

Gymnasium

The fitness centre of our college has a facility of a 12 station Multi Gym for the male students and a Treadmill for females .The athletes use this facility to build their fitness as part of their sports training programme. This facility was established in the year 2010.

Yoga Center

The Importance of Yoga is rendered to the students, as part of health and wellness programme. Yoga trainers are invited to address the students and render importance of yoga and give practical classes. This programme is coordinated by NSS and Young Indians (Yi).Yoga Center was established in the year 2016.Books on Yoga, Meditation etc are available in the central library.

Mediation / Prayer Center

Facility for prayer / meditation is provided at Aryabhata Block; the prayer hall is kept open during the working hours and staff and students use this facility .The prayer hall was established in the year 2013.

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
Financial support from institution	TIFERS	28	
Financial support from other sources			
a) National	SC/ST/OE/Concession	36	
b) International	---	----	-----

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Guidance for Competitive examinations	2017-18	61	TIME, Kochi
		384	Logic Institute of Technologies
Career Counselling		61	Toc H Institute of Science and Technology,

			Arakkunnam		
		76	Konfidence 33/T40C, Link Retreat Vennala P.O Kochi-682028 PH: 9447235913 9447978265		
		15	Career Development Program by MR. Reghunath Krishnan IIM Bangalore		
		48	Workshop on software Technologies by logic institute of Technologes		
		234	Santa Monica, Kochi		
Soft Skill Training		48	Training for Infosys Eligible students		
		96	Aptitude training for final Year, EEE Students		
		97	Soft skill training by Insight JOB guru 97 sangamam Nagar Enchakkal P.O Kerala-695008 Ph;9020937077		
		65 35	Insight Job Guru, Trivandrum Konfidence Cochin		
		414	Insight JOB guru 97 sangamam Nagar Enchakkal P.O Kerala-695008 Ph;9020937077		
		1141	Toc H Institute of Science and Technology, Arakkunnam		
Remedial Coaching					
Language Lab		121	Toc H Institute of Science and Technology, Arakkunnam		
Bridge Courses		60	Toc H Institute of Science and Technology, Arakkunnam		
		31	Theory of Computation		
Yoga & Meditation		35	Aamri International hospital, Kakkanad, Mr.Jaya Kumar, Yoga Teacher, Toc H Public School		
Personal Counselling		1810	Toc H Institute of Science and Technology, Arakkunnam		
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	Number of benefited	Number of students	Number of students

		students by Guidance for Competitive examination	students by Career Counselling activities	who have passed in the competitive exam	placed
2017-18	Competitive Examinations/Career Guidance	965	480	0	48
2017-18	Placement, personality Development and Soft skill Training and aptitude training	24	0	0	25

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

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
3	3	3

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
24	500	337	10	300	31

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018	1	B.Tech	IT	CUSAT	M.Tech Computer Science with Specialisation in networking
2017-2018	1		CSE	Toc H Institute of Science & Technology	M.Tech
2018	1		EEE	TOC-H	Power Electronics
2018	1			LBS college of	Power Electronics

			Engineering	
2018	5	CE	1.United World Institute of Design, Ahmadabad 2.Cindrebay school of interior design, Calicut 3. TIST, Arakkunnam,Kerala 4. VIT,Chennai 5. PSG Coimbatore	MDIS in Furniture and Interior Designing 2. Pg diploma in interior design 3. M.Tech, 4. M.Tech 5. MBA
	3	ECE T	TOC H INSTITUTE OF SCIENCE AND TECHONOLGY	MTECH- WIRELESS TECHNOLOGY
	3	ECE	TOC H INSTITUTE OF SCIENCE AND TECHONOLGY	MTECH- VLSI &EMBEDDED SYSTEMS
	2	ECE	RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY	MTECH- SIGNAL PROCESSING
	1	ECE	RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY	MTECH- VLSI &EMBEDDED SYSTEMS
	1	ECE	RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY	PGDM (MBA)
	1	ECE	SB COLLEGE CHANGANASSERY	MBA
	1	ECE	LIVERPOOL UNIVERSITY,UNITED KINGDOM	MS
	1	ECE	BHAGWAN PARSHURAM INSTITUTE OF TECHNOLOGY	MBA
	1	ECE	CUSAT	MBA

	1		ECE	SYMBIOSIS,PUNE	MBA	
5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)						
Items		No. of Students selected/ qualifying		Registration number/roll number for the exam		
NET						
SET						
SLET						
GATE		1		CE18S77049013		
GMAT						
CAT						
GRE						
TOFEL						
Civil Services						
State Government Services						
Any Other		2		101299 101309		
5.2.4 Sports and cultural activities / competitions organised at the institution level during the year						
Activity		Level		Participants		
Arts Day(Mudra)		institution level		370		
Annual Athletic Meet,Games(Intramurals)		institution level		680		
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/ Internatio nal	Sports	Cultural	Student ID number	Name of the student
2017- 18	CUSAT Inter Collegiate - 2nd Prize	Regional	Sports			Mereena Baby
	CUSAT Inter Collegiate ,3rd Prize	Regional	Sports			Ashitha Shenoy
	CUSAT Inter Collegiate , 2nd Prize	Regional	Sports			Priyanka
	CUSAT Inter Collegiate Tournament ,Runners- up	Regional	Sports			Women Basketball team
	KMEA Inter Collegiate Badminton Tournament,Winners	Regional	Sports			Naveen Giri & Vijay
	KTU Inter Zone Tennis Tournament held at TKM Engineering College, Kollam,Runner -up	Regional	Sports			Priti Kumari
	KTU Inter Zone Tennis Tournament (WOMEN), Runner -up	Regional	Sports			Priti Kumari

APJ Abdul Kalam Technology University Zonal Chess Tournament- 1st Prize	Regional	Sports			CHES Team
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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)

Student Council

Student Council acts as a liaison between the students and the management. It is a forum for the students to develop their attitude, leadership qualities, social skills, cultural talents and focuses on the overall development of the individual.

Academic Bodies

1. Student Chapters of various Departments:

The student chapters of the following professional bodies are active in the Institution.

IETE, IEEE, CSI, IE(I), AeSI, IIE, IIW, IIPE, ICI, IGBC, ISTE

1. Class Committee: The Meeting is held twice/thrice in each semester. These meetings serve as a platform for interaction between students and faculty.
2. Course Committee: This is for common courses offered to students admitted for the B. Tech programme irrespective of their branch of study.

Administrative Bodies

1. IQAC: Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
2. IEDC: To Identify students with innovative ideas and create a platform for them to work with.
3. Hostel Committee: To provide healthy environment in the hostel for the overall development of the hostel inmates.
4. Library Committee: To provide for proper documentation service and to update the library collections.
5. Alumni Cell: This will strengthen our efforts in placement, project works and Industry-Institution Interaction.
6. Transport Committee: To promote healthy and safer transport to and from college.

Public Service Programs

National Service Scheme (NSS): Activities undertaken by the NSS unit of our Institute are –Book Library, Class on personality development, energy conservation, Blood Data Bank, donors arranged in cases of emergencies, Antidrug awareness program, Visit to orphanages and old age homes, Vegetable Garden, Free Health Check up, Free eye check up, Marathon Run for Peace, Road Safety program, Street Play.

Young Indians (Yi): TIST Yi Net show great enthusiasm in organizing and conducting Leadership and Social activities. Some of the events organized are-Awareness class by Experts from all walks of life to the students, Awareness on Anti Drug classes to school students, Awareness of Women Safety and Self Defense, Maintain cleanliness of our public surroundings like children’s park, beach etc, Street play awareness show on water pollution, highlighting save water, Industrial visit for value based learning, Awareness class on Sexual Abuse to school students, No honking Campaign in the city.

ENCON Club: The main objective of the ENCON club is to drive home the message of energy conservation and environment protection in the minds of students by planning and organizing regular activities, talks, seminars workshops, exhibitions and other awareness programmes.

KARMA : TIST started KARMA for extending support to poor people in the society by catering to five sectors, viz., Food, Health Care, Education, Volunteer and Shelter. Any student of TIST with an intention to help others can join this group.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

The alumni association of TIST started in the year 2008, with the sole aim of setting up an excellent

network amongst our students and our College. All the former students, faculty and final year students constitute the alumni. This will strengthen our efforts in placement, project works and Industry-Institution Interaction. It provides an opportunity that revokes nostalgia. Alumni meetings endeavor to bring best of Quality Education with Entrepreneurship. It collaborates and communicates using the best of technology to Impart Professional Training through participation. It creates an environment to Guide the students with their forward looking ideas thus Promoting Entrepreneurship. Alumni activities are undertaken by a nominated faculty.

One of the main objectives of our Alumni Association is Ensuring and facilitating the continual bonding of our alumni. It brings together a wealth of talented and capable professionals who share their expertise and experience, and brainstorm on the prospective avenues. Association provides good interaction between the former students and the college through periodical meetings, project consultancy, placement activities and guest lecturers/seminar thereby making the alumni to be a part of developmental activities, taking place in the department. Association strengthens the cooperation and coordination with industries, which helps the students to get exposed to many internship opportunities. It creates opportunities for training and special projects apart from guest lectures, industrial visits and seminars. An Academic Advisory Committee Meeting is held every year, where the alumni's suggest modifications in up gradation and updating of curriculum to meet the industrial needs. This helps to enhance juniors for several Placement Opportunities.

The Alumni meets helps largely to develop the bonding between Alumni and the institution every year. Thus maintains a continuing and life long relationship among the students, faculty and Institution.

5.3.2 No. of ~~registered~~ enrolled Alumni:

581

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

5.3.4 Meetings/activities organized by Alumni Association :

Sl. No	Event	Resource Person	Details
1	Motivational talk	Rezvin Basheer (2010-2014)	Talk on How to face Interviews
2	Technical Session	Mr. Jerin A Mathews, CTO, Rectify.	Android Workshop
3	Technical Session	Mr. Jibin Jose CEO, Flip Technologies	Python Workshop
4	Technical session	Mr. Jerin A Mathews(2012-'16), CTO, Rectify.	HTML,CSS workshop
5	Motivational talk	Juhaim Ibnu Abdul Jabbar	Talk on "An Exposure to Startup"
6	Motivational talk	Mr. Abraham Solomon(2013-'17), Nimkraft	Silicon valley experience

7	Motivational Talk	Mr. Jibin Jose, Flipmotion	Entrepreneurship
8	Technical Session	Mr. Jerin A Mathews, CTO, Rectify.	Workshop on Mobile application development
9	Technical Session	Mr. Jerin A Mathews, CTO, Rectify.	Android Hands on workshop
10	Motivational talk	Mr. Bijin Abraham, Graduate Developer at Yellowfin Business Intelligence	Importance of Higher education
11	Motivational talk	Mr. Vinu(2002-'06), Application consultant, Canadian Imperial Bank of Commerce	Career options in Banking
12	Talk on "How to mould your career"	Mr.Pramod Chandran(2004-'08), Service delivery manager, Wipro Limited	Mr. Pramod Chandran took an interactive session on "How to mould your career" to B.Tech students
13	Motivational talk	Mr. Hareesh (2011-'15), CEO and Founder at Immneos Technologies,	Entrepreneurship
14	Motivational talk	Ms. Gopika Jayalal(2012-'16), Systems Engineer at Infosys	Industrial Experience
15	Motivational talk	Sajith S S (2004-2008)	Technical fest "ECLECTIC 2017"

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 institution practices decentralization and participative management. The Governing Body meets normally once a year to discuss the current performance levels of the institution in various aspects such as academics, administration and activities, and to set guidelines for the future course of action to be followed. Several bodies with well defined roles have been constituted to ensure proper functioning of the institution under the guidance of the Principal, who along with along with Dean (Academics) and Vice Principal are engaged in the overall development and day today governance. Principal chairs the meetings of staff council (HoD meetings) and meetings of other committees which are convened regularly. The activities are planned in the HoD meetings, executed through various academic and administrative bodies constituted with the participation of staff and with the concurrence of management. IQAC, PTA, Students Council, Anti Ragging Cell, Students Welfare Committee, Discipline Committee, Grievance Redressal and Appeals Committee, NSS, Exam Cell, Transport Committee, Innovations and Entrepreneurship Development Centre etc. are some among

the active cells for propelling this institution. Adequate representation of faculty, students and parents is ensured in all these committees. Adequate systematized autonomy to all the departments is provided. The Budget proposal for the academic year is prepared by the individual departments in participation with the staff. These individual department budgets are consolidated along with administration department budget. The budgets of all the departments will be consolidated by the Accounts Manager and will be presented to the Principal, and further presented before the Management for approval and sanction. All orders exceeding a sum of Rs.25,000/- must be processed after inviting minimum three quotations from different suppliers, manufacturers and a comparative statement to be prepared and sent to the Founder Director and Manager for approval with recommendation of the Principal. For orders exceeding Rs.5,000 and below 25,000, quotations with recommendation of the department head to be forwarded to the Founder Director and Manager along with the Principal's recommendation. For items less than Rs.5,000/- purchases may be made locally with the prior approval of the Principal. For department related purchases, HODs of concerned departments should submit justification for procurement and must recommend specifications for placing orders.

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

Yes/No/Partial:

yes

6.2 Strategy Development and Deployment

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

Curriculum Development

University academic calendar is strictly adhered to. In order to enable the planned coverage of syllabus, a detailed academic calendar including all important dates for curricular, co-curricular and extracurricular activities is prepared by a committee headed by Dean Academics and is implemented. Before the beginning of semester, faculty prepares their course plan which is approved by HOD. According to this course plan, the course syllabus is covered at appropriate pace including proper revisions prior to the commencement of the university examination. A model/practice session examination is also conducted for all courses in accordance with university question pattern.

Students are also made aware of course plan in the beginning of the semester. Also if a faculty finds that he or she is lagging behind the course plan, extra classes will be scheduled as and when required during holidays. The HOD monitors the implementation of course plan. Course committee meetings with student representatives are conducted and feedback from students is taken twice in a semester. Student's progress is assessed through class tests and reported to parents/PTA meeting.

Course plans for lab are also prepared which includes number of experiments as per the curriculum. Additional experiments are also included. Laboratory manuals are prepared covering all the experiments in the course plan and are issued to the students at the commencement of the practical course. The institution follows pedagogical model based on Revised Blooms Taxonomy (RBT) and Creative

Learning Process (CLP) enabling the students to achieve the knowledge through all levels of learning.

Faculty prepare learning materials, Format for Class room Teaching, question bank, previous question papers, follow chalk and board and ICT. The abstract concepts are explained with reference to real world situations. For continuous monitoring of student progress various assessment tools and micro teaching are followed. During tutorial hours extra problems will be given to students for problematic courses or difficult concepts will be explained for other courses. Two teachers will be in charge of this hour which will provide individual attention.

Teaching and Learning

The experimental learning is done in many ways such as :

- On job training and internships are given to MBA students.

- Workshops conducted on topics related to the course which are not included in the curriculum like software, workshops, embedded systems, aero modeling etc.
- Imparted hands on experience, workshops like Android applications, robotics, raspberry Pi, Arduino, Intel Galileo, B+ launch pad, Epicyclic gear train test rig, motorized gyroscope, whirling of shaft, static & dynamic balancing machine, vibration measuring instrument, TIG welding machine, MIG welding machine, Pipe bending Machine, Sheet bending machine, Hydraulic power press, Pick & place robot, sensors & actuators in automation, Agilent lab.
- Marketing training is given to students of MBA by conducting Christmas and Onam trade fair, students' outreach program etc
- Mini projects are given to students as part of syllabus.
- Competitions on Cube casting (in association with ICI), posters and power point presentation are conducted.
- Brain storming and discussion on topics beyond syllabus improve self learning capabilities
- Lab experiments beyond curriculum give an opportunity to learn and apply skills based on one's own learning capabilities.
- Industrial visits to gain onsite experience in various industrial sites.

PARTICIPATIVE LEARNING

- Students in each class is divided into group of six with a topper in each group and encouraged to promote co-operative learning.
- Students encouraged to conduct seminars on the basics/ fundamentals of subjects; also encouraged to attend the workshop and conferences so as to take up engineering project in community service.
- College has institutional membership of DELNET (Developing library network), NDL (National Digital Library), NPTEL video lectures, Emerald Management for management studies, INDEST, Elsevier- Science Direct
- Workshops, seminars, extempore, JAM, GD arranged
- Peer learning, group discussions, quiz, student's seminar Inter collegiate maths quiz

PROBLEM SOLVING METHODOLOGIES

- Design projects (selecting 3 products, analyze, study and develop one product)
- Major and minor projects providing scope for evolution of problem solving methodologies
- Open ended question added in the practical manual book
- Additional lab experiments beyond the scope of curriculum
- Tutorial classes conducted by faculty
- MOU s with industries for better training
- PPTs prepared by respective faculty to make fundamental concepts easy and simple
- Real world examples discussion and related videos.
- Difficult concepts are identified in each subject and models of analogies prepared to explain them.
- In consultation with PWD, projects were taken by students and real experiment was done on a sector of road earmarked by the Mulanthuruthi Panchayat and was widely appreciated.
- As a part of B.Tech student project, Rainbow bridge connecting the sloppy road and first floor of Vishveshwaraya block was designed and implemented.

- Examination and Evaluation

Research and Development

With an aim to reach global standards in education, the Department of Research and Development started in the year 2006 was converted into J.C. Bose Centre for Research and Advanced Studies. Research projects funded by DRDO, DAE-BRNS, DST etc amounting to a total of Rs 2 cores were completed and is recognized as SIRO by DSIR. The institution was conferred B-grade institutional and commercial certificates by the Pollution Control Board, thereby authorizing its center for water testing. MoU signed on 11th January 2018 between

Library, ICT and Physical Infrastructure / Instrumentation

Library

The TIST Library supports the education mission of the college by discerning and fulfilling the information needs of its diverse user community. The main library, located centrally, facilitates easy access to all user communities, along with MBA and Digital libraries and 10 other department reference libraries. The 10000 square feet library provides a wide range of services. The full-fledged library with its automated library system is fully equipped to meet any requirements of all information seekers. The library services to the students and faculty are made available through Vivekananda Central, Sarabhai Digital & C K Prahalad MBA Libraries.

All the library functions are managed and regulated by the Vivekananda Central Library.

It follows an open access system. Books are arranged in Dewey Decimal Classification System. Library Management System (LMS) software is used in the computerization of the library. Online Public Access Catalogue (OPAC) helps the students to easily access the books and other materials in the library within seconds. Web based Online Public Access Catalogue (WEB OPAC) system is also incorporated. Bar-coded Identity card is issued to all users. Punching system for faculty members and Hand-free Barcode reader for students are installed at the entrance. Surveillance cameras help to regulate the movement of the users in the library.

A well-arranged Digital Library with 25 systems and a projector with screen and speakers help the users to view e-facilities and ensure video conferencing facility which is used for guest lectures by foreign professors and industry experts. Digital Library can also be accessed anywhere on the campus.

We have a separate library for Management Studies (MBA) with rich collections of books arrayed in reference and lending sections. The library is an extension of the central library and is housed adjacent to the Department of Management Studies.

The NAAC peer team that inspected the library facilities and services rated them as "Excellent".

ICT facilities:

Multimedia facilities providing audio-visual equipment and Webinar center which facilitates video conference for effective learning process. In the departments of the institution are equipped with latest projectors for effective teaching through video lectures. Also the students are supported by the faculty to present their seminar topics using the ICT facilities. Each room has a seating capacity of 60 and all departments are provided with sufficient number of LCD projectors, Wi-Fi and LAN enabled internet connectivity.

The institute continuously keeps upgrading the internet bandwidth as latest teaching methods demand the usage of NPTEL/Webinars etc. A separate server with HDD is being maintained exclusively for NPTEL video streaming within the campus.

Physical Infrastructure

The institution has good infrastructure to meet the educational/recreational requirements. Buildings have an area of 36049 Sq.M with good ambience and provide all amenities. There are adequate number of class rooms, smart class rooms and seminar halls. All laboratories are well

equipped. The institute has a centralized common computer facility. The library has 38781 books besides the digital library which has access to e-journals & e-books; internet facility with 80Mbps available. The fitness centre of has a facility of a 12 station Multi Gym for the male students and a Treadmill for girls. We have Outdoor Sports facilities, where Soccer, Cricket and Track & Field events are conducted. There are Basketball and Volleyball courts, Cricket practice nets; events like Inter Collegiate and Inter Department tournaments are conducted in these facilities. Indoor sports facilities are Two Badminton courts and facility to play Table Tennis in Indira Gandhi Indoor Auditorium, Inter Department Cultural and Inter Collegiate Competitions, facility for Music & Dance Practice, Annual Day, Onam & Christmas Celebrations are organized in this facility. The Institute provides the facility of a canteen where hygienic food, breakfast and lunch are served. The college has a good transport facility (buses) both for the students and staff. The campus is under surveillance of CC Cameras installed at various vantage points.

- Human Resource Management

- The management assess adequate human power requirement Recruitment and Selection of the faculty members are based on the guidelines provided by AICTE, New Delhi and APJ Abdul Kalam Technological University.
- Biometric Attendance system is practiced for all faculty members in the institution
- Enhancing the quality of the faculty members by deputing for Faculty Development Programmes, Conference / Seminar / Workshop participation, Presentation of research papers, Industrial visit
- Faculty members are recognized for their contributions and achievements during the Annual day programme
- Welfare Schemes are available for the faculty member in the campus like Group Insurance, Festival Allowances..

- Industry Interaction / Collaboration

- The IQAC suggested collaboration with foreign universities and institutions which will open a wide spectrum of interaction in different levels like Student exchange, Faculty exchange as well as research association. The Department of Management Studies entered into an MoU with the University of Kelaniya, Sri Lanka with the aforesaid objectives. This resulted in a series of associative programs like Seminars, Conferences and Workshops. Joint project-works are also happening, as an impact of this MoU. Another important milestone of this MoU is that the University of Kelaniya has consented to host an International Conferences on Business and Information (ICBI – 2018) at Toc H Institute of Science and Technology during the month of November 2018.
- Conducted Guest lectures by experts from industry

- Admission of Students

For B.Tech

The seats under **Govt. quota** will be allotted by the Commissioner for Entrance Examinations, based on KEAM rank

Eligibility

1. Nationality: Indian
2. Age: completed 17 years
3. Qualifications:
 1. 50% marks in Mathematics and 50% marks in Physics, Chemistry & Mathematics put together
 2. The candidate should qualify KEAM

4. Reservation category: Rules as specified in KEAM-prospectus

The seats under **Management quota** will be allotted by the Institute, based on XII standard marks and KEAMrank. In case the candidate has not appeared or is disqualified in KEAM, KEE ranking will be considered.

A rank list will be prepared from the received applications on the basis of merit and the date of admission will be intimated to the selected candidate.

Eligibility

1. Nationality: Indian
2. Age: completed 17 years
3. Qualifications:
 1. XII standard marks: 45% marks in Physics, Chemistry & Mathematics put together.
 2. The candidate should qualify KEAM. In case the candidate has not appeared or is disqualified in KEAM, KEE ranking will be considered.

The seats under **NRI quota** will be allotted by the Institute, based on XII standard marks
THERE IS NO CAPITATION FEE OR DONATION FOR ADMISSION UNDER NRI QUOTA

Eligibility

1. Nationality: Indian
2. Age: completed 17 years

Qualifications:

1. XII standard marks: 45% marks in Physics, Chemistry & Mathematics put together.

For. M.Tech

Eligibility

1. The candidate should be an Indian National.
2. The candidate should have studied the graduate course in an institution approved by the AICTE.
3. The candidate should have a Bachelor's Degree in Engineering/Technology in the respective branch, awarded by any University in the State of Kerala or equivalent, as approved by the concerned Universities.
4. The candidate should have a minimum of 60% aggregate marks or equivalent in the Bachelors Degree Examination. For SC/ST candidates a pass in the Bachelors Degree Examination is sufficient.
5. Candidates having valid GATE score are preferred.
6. Candidates who have passed AMIE/AMIE Examination and satisfying the following conditions are eligible for admission.
 - a. They must have valid GATE Score.
 - b. A minimum marks of 55% for the section B in AMIE/AMIETE examination.
 - c. Minimum 3 years of professional experience in the field of specialization after acquiring the qualifying degree.

7. The candidate should have registered themselves at Directorate of Technical Education (DTE), Govt. of Kerala and should have obtained a DTE ranking.

8. Candidates who have appeared for the final examination may also apply subject to the condition that the results are made available at the time of admission.

For. MBA

The eligibility for admission for MBA as per Govt. of Kerala & University norms. Candidates with B.Tech/any other degree with minimum 50% of marks in aggregate. Selection procedure based on performance of scores in CAT conducted by CUSAT or MAT by AIMA and Group Discussion & Interview conducted on our campus.

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

❖ Planning and Development
NIL

❖ Administration
NIL

❖ Finance and Accounts
Tally, 4E - A 307-308,
Dubai Airport Free Zone,
P O Box No. 293835,
Dubai, U.A.E

❖ Student Admission and Support
Toc H has put a keen interest in the usage of IT and multimedia in delivering all its services for ensuring transparency. This can be substantiated with the areas of Student admission and Examination. In case of Student admission, the KTU has designed the system in such a way that all the documents necessary to identify the students, their academic details, their personal details has to be uploaded in the KTU portal. As the students upload their details into this format, further it cannot be manipulated or altered by anyone. If the student has to change or alter later, then he or she has to take permission from Head of Department, KTU coordinator of the college and this has to be approved by the university itself.

❖ Examination
After submission of the details, the students would get a roll number generated by the system, which would be used for future correspondences with the university. The continuing part of this format is used for examination process. The examination process executed in the college is briefed below.

The results of each trimester in a management institute undergo different stages with the help of IT. These stages are mentioned below for a better understanding:

Stage 1: Uploading of Internal exam results of students in a trimester.

Stage 2: The question papers will arrive to each institution through mail on the respective date of examination to the Head of department.

Stage 3: The conduct of university exam for that trimester

Stage 4: After the university exam, the notification of centralized valuation camp will be initiated by the university to all the faculty members.

Stage 5: Faculty members will upload the marks in their own login id provided by the university.

Stage 6: Based on the marks uploaded the results would be announced.

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	
--	--	--	--	--	
6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year					
Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2017	Workshop on HVAC		18th to 22nd December	25	
2017	Faculty development programme on " IOT and its Applications in Electrical Domain " organised by Pantech ProEd Pvt Ltd in association with EEE Department		19th , 20th and 21st June 2017	10	
2017	A seminar on "Electrical Energy Conservation and Technology" was delivered by Mr. Jayaraman Ex. Senior Manager BPCL Ltd and immediate past general Secretary of Society for Energy Engineers and Managers (SEEM)		30th January 2018.	10	
2017	industrial vist to Kel		21th jan 2017	12	
2017	Training on First aid and CPR procedure	Training on First aid and CPR procedure	1 day (4-11-2017)	13	
2017	Layout Design and Analysis of Analog Integrated Circuits using Cadence tools	Layout Design and Analysis of Analog Integrated Circuits using Cadence tools	15/2/2018-16/2/2018	10	

2017	Embedded System and Applications using LPC Microcontrollers		13/12/2017-15/12/2017	13	
2017	Introduction to raspberry Pi and IOT		28/7/2017-31/7/2017	11	
2017	Advanced Web Technologies		12 th to 16 th June 2017	8	
2017	Technical forum- Fire Safety Equipment Demonstration	Technical forum- Fire Safety Equipment Demonstration	14/7/2017	27	
2017	FDP on Emerging trends in Advanced Concrete Technology	FDP on Emerging trends in Advanced Concrete Technology	19/7/2017	28	
2017	CEA Activities 2017-2018 Inauguration	CEA Activities 2017-2018 Inauguration	8/11/2017	23	
2017	Technical talk- Cost effective airport construction- Success story of CIAL by ACK Nair	Technical talk- Cost effective airport construction- Success story of CIAL by ACK Nair	8/11/2017	23	
2017	Technical talk demonstration of fusion 360 by Er. Viju Antony	Technical talk demonstration of fusion 360 by Er. Viju Antony	8/11/2017	23	
2017	Technical forum by Dr. Marimuthu on FEAST	Technical forum by Dr. Marimuthu on FEAST	25/8/2017	28	
2017	Engineers Day celebrations	Engineers Day celebrations	15/9/2017	29	
2017	Technical talk on making of Kochi Metro by Er. Kesava Chandran	Technical talk on making of Kochi Metro by Er. Kesava Chandran	15/9/2017	29	
2017	Tech fest- Techshila 2k17	Tech fest- Techshila 2k17	22/9/2017 to 23/9/2017	29	
2017	National Energy Conservation Day celebration	National Energy Conservation Day celebration	14/12/17	26	

2017	Industrial visit at CIAL solar power plat and waste treatment plant	Industrial visit at CIAL solar power plat and waste treatment plant	14/12/17	26	
2017	Workshop on Waste management and zero energy zero discharge buildings	Workshop on Waste management and zero energy zero discharge buildings	1/5/2018	22	
2017	Advanced Web Technologies	NIL	12 th June to 16 th June 2017	14	
2017	Moodle	Moodle	13th July to 14th July 2017	22	

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
Workshop on HVAC	25	18th to 22nd December
Development programme on "Induction Training Programme for Young Teachers"	1	19th – 21st December
attended a two day FDP on Power System and Control Engineering organized by SCMS School of Engineering & Technology	2	2nd & 3rd May
attended a five day FDP Emerging trends in Nanoscience and Nanotechnology organized by Adi Shankara Institute of Engineering and Technology, Kalady	2	17th to 21st April
Emerging Trends in Advanced Concrete Technology	1	5 days (19-7-2017 to 25-7-2017)
Sustainable development through green Technology at Albertian Institute of Science and Technology	2	2 weeks (04-12-2017 to 16-12-2014)
Waste management & Zero discharge buildings - Laurie Baker International School of Habitat studies and KESNIK	1	1 day (5-1-2018)
Surakshitham 2018 : 'Vision Zero - Practical solutions'	2	1 day (13-1-2018)
Layout Design and Analysis of Analog Integrated Circuits using Cadence tools	8	15/2/2018-16/2/2018
Embedded System and Applications using LPC Microcontrollers	13	13/12/2017-15/12/2017
Introduction to rasperry Pi and IOT	11	28/7/2017-31/7/2017
One day workshop on Induction Programme (AICTE) Bangalore	2	20/6/2017
EIT Training Programme- Orientation programme for NSS Programme Officers	1	5/7/2017 to 11/7/2017

Workshop on Design Project	2	21/8/2017
Technical talk on Steel fibre reinforced concrete by Er. Ramakrishnan Dranine, AKC, Cochin	4	22/8/2017
Workshop on NDT and construction materials and systems at IIT Madras	1	9/8/2017
Site visit to Unitech Construction Site	2	9/11/2017
Site visit to RMC Edayar	3	14/9/2017
KITCO- FEST at Hotel Crown Plaza	1	15/9/2017
ICI Executive Committee meeting	1	20/9/2017
AICTE sponsored FDP on Advanced Concrete Technology at MACE, Kothamangalam	1	7/12/2017 to 20/12/2017
ICFACE 2018 at Srikrishna College of Technology, Coimbatore	1	1/6/2018
FDP on Advanced Design of Structures at MBC, Peerumade	1	1/11/2018
Advanced Web Technologies	14	12 th June -16 th June 2017
Moodle	14	14 th July to 15 th 2017
Design Project	1	15 th July to 19 th July 2017
Graph Theory and Combinatorics	1	25 th -26 th July 2017
6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):		
Teaching		Non-teaching
Permanent	Fulltime	Permanent
		Fulltime/temporary
153		153
6.3.5 Welfare schemes for		
Teaching	<p>Employee's cooperative society floats loans to teachers</p> <p>Festival Allowance is provided to all faculty</p> <p>Accommodation is available for faculty & guest faculty</p> <p>Tours and family get-togethers are organized for staff and employees</p> <p>Awards and recognitions are given away in functions to the winners</p> <p>LIC Pension Plan/EPF available for all confirmed teaching staff.</p> <p>On campus free medical facilities</p> <p>Cafeterias</p> <p>Sabbatical leave is given for faculty members for higher studies & research.</p> <p>Computers/ laptops with free internet/wifi facilities</p> <p>Provision for purified drinking water</p> <p>EPABX facility for communication</p> <p>Reprography facility with stationary</p> <p>Transportation facility</p> <p>24 hour power back-up</p>	
Non teaching	<p>Employee's cooperative society floats loans to staff</p> <p>Festival Allowance is provided to all staff</p> <p>Tours and family get-togethers are organized for staff and employees</p> <p>Awards and recognitions are given away in functions to the winners</p>	

	<p>Employees Provident Fund/ESI/Medi-Claim for all confirmed non teaching staff. On campus free medical facilities Cafeterias Provision for purified drinking water EPABX facility for communication Reprography facility with stationary Transportation facility 24 hour power back-up</p>
Students	<ul style="list-style-type: none"> • Scholarship Schemes by Government & Management • Students LIC Policy • For competitive examinations • Career counselling • Soft skill development • Remedial coaching • Language lab • Bridge courses • Yoga and meditation • Personal Counselling • On campus free medical facilities • Cafeterias • Provision for purified drinking water • Reprography facility with stationary • Transportation facility

6.4 Financial Management and Resource Mobilization

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

Yes, the Institution has a mechanism for internal and external audits. Our Management has a full-time Treasurer to oversee the financial activities of the Institution. All the books of accounts are audited regularly by Chartered Accountants. Both Internal & External Audits are conducted annually. Hence all financial transactions are transparent. The audited financial statements of the academic years are available in the website- <http://tistcochin.edu.in>.

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

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
KESNIK & LaSHibas	20000	One day workshop

6.4.2 Total corpus fund generated

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	ISO,KTU	Yes	
Administrative	Yes	ISO	Yes	

6.5.2 Activities and support from the Parent – Teacher Association (at least three)				
Regular PTA meetings will be conducted to discuss the progress of the students and remedial measures are taken.				
6.5.3 Development programmes for support staff (at least three)				
<ol style="list-style-type: none"> 1. Training on First aid and CPR procedure 2. Layout Design and Analysis of Analog Integrated Circuits using Cadence tools 3. Technical forum- Fire Safety Equipment Demonstration 4. FDP on Emerging trends in Advanced Concrete Technology 5. CEA Activities 2017-2018 Inauguration 6. Technical talk- Cost effective airport construction- Success story of CIAL by ACK Nair 7. Technical talk demonstration of fusion 360 by Er. Viju Antony 8. Technical forum by Dr. Marimuthu on FEAST 9. Engineers Day celebrations 10. Technical talk on making of Kochi Metro by Er. Kesava Chandran 11. Tech fest- Techshila 2k17 12. National Energy Conservation Day celebration 13. Workshop on Waste management and zero energy zero discharge buildings 14. Moodle 15. Industrial visit at CIAL solar power plant and waste treatment plant 				
6.5.4 Post Accreditation initiative(s) (mention at least three)				
6.5.5				
a. Submission of Data for AISHE portal : Yes				
b. Participation in NIRF : Yes				
c. ISO Certification : Yes				
d. NBA or any other quality audit : Yes				
6.5.6 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants
2018	IQAC Meeting	29/01/2018	1 day	15
2017	IQAC Meeting	05/05/2017	1 day	11

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES		
7.1 - Institutional Values and Social Responsibilities		
7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)		
Title of the programme	Period (from-to)	Participants
Computer Training for Housewives	7.6.2017 - 17.6.2017	14
International Yoga Day	21.06.2017	44
Engineering Orientation for girls	10.07.2017	60
Engineering Orientation for girls	15.07.2017	71
Engineering Orientation for girls	27.07.2017	60
Effective Parenting Skills	28.11.2017	93
Awareness on Self Defense	22.12.2017	52
Hair Donation	11.1.2018	106
Employability & Entrepreneurship for Queens	05.02.2018	233

Visit to Holy Cross Hospice, Perumpadappu, a Centre for terminally ill patients by Women Cell	20.03.2018	35				
7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources 90.36						
7.1.3 Differently abled (Divyangjan) friendliness						
Items Facilities	Yes/No	No. of Beneficiaries				
Physical facilities	Yes	1				
Provision for lift	Yes	1				
Ramp/ Rails	Yes	1				
Braille Software/facilities	Yes	0				
Rest Rooms	Yes	1				
Scribes for examination	Yes	0				
Special skill development for differently abled students	Yes	0				
Any other similar facility	Yes	0				
7.1.4 Inclusion and Situatedness						
Enlist most important initiatives taken to address locational advantages and disadvantages during the year						
Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2017-18	1	NA	21/8/2017-30/08/17	Trade Fair	Remote location of Institute	100
	1	NA	05/09-17	Grow bag Cultivation	Eco friendliness	52
	NA	1	06/03/17	Ink pen distribution		15
	9	NA	24/9/2017	Online Examination Center	Lack of IT resources	
			22/9/2017			
			26/11/2017			
			02/01/2018			
			02/04/17			
			02/10/17			
			02/11/17			
28/03/2018						
		29/3/2018				

NA	11	08/11/17	Survey on Road safety with Mulanthuruthy Police Station	Social Outreach	52
		03/10/17	Old age home visit at Mamalakavala		50
		26/03/18	Pakalvedu cleaning		50
		27/03/18	Oldage Home Visit Karunalyam Piravom		48
		28/03/18	Cleaning Govt.L.P School Oorakom		50
		29/03/18	Fieldwork at KSRTC garage Piravom		48
		30/03/18	Meet The Villagers Program		48
		31/03/18	Soukhya Sadan Visit		48
		19/03/18	Pond Cleaning at Arakkunnam Chira		61
		03/10/18	Helping Thuruthikkara – Ward 10 of Mulanthuruthy Grama Panchayath to fulfil their vision of becoming a “Digital Village”		7
		29/3/18	Awareness Programme on water conservation and aquaponics		3
1	NA	31/5/18	Auxiliary Staff Recruitment	Unemployment in locality	
1	NA	From 2017 onwards	Convex Mirrors in turns of roads	Narrow Roads	50

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Hand Book Human Resource Policy guidelines	01/06/2016	

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from--- ----to-----)	Number of participants
Training class on PMAY with Mulanthururthy Grama Panchayath	18/08/2017	15
Social Outreach Programme providing awareness classes and psychological counseling to Al Ameen school , Chandiroor	20/11/17	36
Social Outreach Programme providing awareness classes and psychological counseling to St. Johns JHSS school, Kanniattunirapu	23/11/17	33
Social Outreach Programme providing awareness classes and psychological counseling to SN school, Mamala	28/11/17	31
Social Outreach Programme providing awareness classes and	01/12/17	85

psychological counseling to Government Higher Secondary school , Vennala		
Social Outreach Programme providing awareness classes and psychological counseling to Government Higher secondary school , Elamkkara	05/12/2017	90
Social Outreach Programme providing awareness classes and psychological counseling to St Philomenas school , Elanji	06/12/2017	105
Social Outreach Programme providing awareness classes and psychological counseling to St Philomenas school, Elanji (session for parents)	07/12/2017	60
Social Outreach Programme providing awareness classes and psychological counseling to CCPLM school ,Thevara	10/01/2018	78
Motivational session for students at Infant Jesus Public School, North Paravur	22/7/2017	50
Cyber Security Awareness sessions for students at St. John's High School, Vadakara and Govt. Higher Secondary School, Mannathoor	26/09/17	68
Chennai Flood Relief	04/07/17	18
Cancer ward Visit	05/07/17	48
Oru Pidi ari (Social outreach program)	30/08/17	40
Importance of Drug Abuse and its Impacts	01/12/17	52
Christmas celebration with the inmates of Janey Centre, Tripunithura	19/12/17	42
Blood donation Camp	05/07/17	60
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)		
Students, staff using <ul style="list-style-type: none"> • Bicycles Public Transport • Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants 		
7.2 Best Practices		
Describe at least two institutional best practices Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link <ol style="list-style-type: none"> 1. Outcome Based Education (OBE) http://tistcochin.edu.in/academics/obe/ 2. Innovation and Entrepreneurship Development Center (IEDC) http://tistcochin.edu.in/campus-life/professional-associations/iedc/ 		
7.3 Institutional Distinctiveness		
Scholarship Schemes offered by Institute: TIST Foundation for Economically Backward Rural Students (TIFERS) is a wing of TIST, started in the year 2005 for the welfare of economically backward and academically brilliant rural students for pursuing higher education. TIFERS makes special efforts to remove disparities and equalize educational opportunities for all students. Another striking feature of this scheme is the Book Bank, providing deserving students with text books free of cost. This section includes 4619 books. Academic progress of every beneficiary is strictly monitored. Scholarship offered by TIFERS falls under the following categories:		

- Waving of Full Tuition fees and free hostel accommodation.
- Waving of Full Tuition fees.
- Partial Waving of Tuition fees
- Book Bank

<http://tistcochin.edu.in/about-us/tist-highlights/#1543825329879-b97d908b-0dcf>

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

Additional Skill Acquisition Program (ASAP)

MoA was signed between ASAP and Toc H Institute to set up ASDCs to deliver Artificial Intelligence (AI) & Machine Learning (ML) courses, certified by IIT Chennai of one year duration with 600 hours of course content covering relevant theory, practical and project. The faculty from the institute will be trained in the respective domains, who in turn will deliver the course to the students. ASAP assists the students through internship and placements as part of course completion.

Unnat Bharath Abhiyan(UBA)

Selected for UBA, a flagship program of MHRD; 688 institutions on a Challenge Mode (426 technical and 262 non- technical) which are reputed Higher Educational Institutes (both public and private) of the country

Atal Incubation Centre (AIC)

Establishment of AIC nurtures innovative start-ups in pursuit to become scalable and sustainable business enterprises.

Expansion of KTU Approved Research Centre

- (1) Further expansion KTU Approved Research Centre
- (2) Renewal of Approval for recognition of the institute as SIRO by DSIR (GOI)

Foreign Collaborations

Strengthening tie-ups already signed with Nansen Environmental Research Centre, Norway and Kelaniya University, Sri Lanka; signing of MoU for ERASMUS with Polytechnic in Pozega, Croatia

Introducing relevant optional papers at B.Tech.

Being pursued

Implementation of B.Tech. (Hons.)

NBA accredited branches of 2016 admissions are enrolled for award of B. Tech (Hons)

NBA Accreditation of EEE, SFE, IT branches

Are working in earnest for NBA accreditation

Organising more national/international seminars, conferences and workshops International Conference on Business and Information (ICBI-2018) in association with the University of Kelaniya, Sri Lanka

- Mechanical Engineering Department is conducting International Conference on “Emerging Trends in Mechanical Engineering”
- International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA'18)-Springer, Organized by Computer Science & Engineering Department,
- International Conference on Innovative Trends in Civil Engineering for Sustainability
- World Congress on Information and Communication Technologies (WICT 2018), organized by Computer Science & Engineering Department


Producing more international publications

Being pursued;

Funded Research Projects on-going and proposed

Sl. No	Project title	Funding agency	Maximum funding amount	Student Group,PI,Co-PI
1	Design of a modular and adaptable cost-effective two axis CNC turning solution with conventional longitudinal feed drive	DST-SERC	Rs 29 lakhs	PI: Dr.Babu John, Co-PI: Dr. Nithin Raj
2	Portable Malaria Rapid Diagnostic Device (PMRDD)	Centre for Engineering Research and Development, CERD, KTU under student project scheme	Rs 32, 500	PI :Dr. Georgina Binoy Joseph Co-PI : Dr. Deepa Elizabeth George
3	IOT Based Domestic LPG Management System	DST and TI India Innovation Challenge Design Contest IICDC 2018	TI MSP430 microcontroller platform worth up to US \$200 will be provided free of cost	Faculty co-ordinator: Dr. Georgina Binoy Joseph
4	Automatic Speech Recognition Application program Interface for Malayalam Language	AICTE	RS 7,00000	PI: Dr. Rasmi P S
5	"Cooperative vehicle platooning using machine learning and computer vision".	KTU CERD	RS 20,000	PI: SreelaSreedhar CO PI: AbinOomen Philip

Mrs. Sangeetha S



Signature of the Coordinator, IQAC

Dr. Preethi Thekkath



Signature of the Chairperson, IQAC

