

Yearly Status Report - 2019-2020

Par	t A
Data of the Institution	
1. Name of the Institution	TOC H INSTITUTE OF SCIENCE AND TECHNOLOGY
Name of the head of the Institution	Dr. Preethi Thekkath
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0484-2748388
Mobile no.	9946509900
Registered Email	mail@tistcochin.edu.in
Alternate Email	naac.tist2017@gmail.com
Address	Arakkunnam, Ernakulam
City/Town	Ernakulam
State/UT	Kerala
Pincode	682313

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr.Georgina Benoy Joseph
Phone no/Alternate Phone no.	048428748388
Mobile no.	9566110163
Registered Email	mail@tistcochin.edu.in
Alternate Email	naac.tist2017@gmail.com
3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	<u>https://tistcochin.edu.in/wp-content</u> /uploads/2021/07/AQAR-2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<u>https://tistcochin.edu.in/academics/aca</u> <u>demic-calendar/#Academic-Calender-2020</u>

5. Accrediation Details

Cycle	Grade	CGPA	Year of	Validity	
			Accrediation	Period From	Period To
2	B+	2.62	2019	04-Mar-2019	03-Mar-2024
1	В	2.71	2012	21-Apr-2012	20-Apr-2017

6. Date of Establishment of IQAC

21-Jun-2010

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture			
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries	

NBA Reaccreditation	29-Feb-2020 1	4
Induction Program	22-Jul-2019 14	313
FDP on Emerging Trends in Sustainable Development in Transportation Engineering	23-Sep-2019 5	30
SampoornaJalasuraksha mission-1st Water Pilot Project in Kerala	23-Jan-2020 4	52
Faculty Exchage Program for ERASMUS +S	02-Dec-2019 5	1
Rebuild Kerala	23-Jun-2020 12	85

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

		-			
Institution/Departmen t/Faculty	Scheme	Funding	Agency	Year of award with duration	Amount
Computer Science & Engineering	MODROB	AI	CTE	2020 365	600000
Electronics & Communication Engineering	MODROB	AI	CTE	2020 365	1100000
Electronics & Communication Engineering	UBA	MH	IRD	2019 365	100000
Electronics & Communication Engineering	STUDENT PROJECT	KSC	STE	2019 365	20000
Computer Science & Engineering	ASAP	GOVERN	ATE MENT OF ALA	2019 365	238600
	Nc	Files	Uploaded	!!!	
. Whether compositi IAAC guidelines:	ion of IQAC as per lat	test	Yes		
Upload latest notification of formation of IQAC			<u>View</u>	Link	

10. Number of IQAC meetings held during the year :	2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<u>View Uploaded File</u>
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

1. NBA Re Accreditation 2. Faculty Exchange Program 3.KTU funded Project 4.Social Out Reach Program 5. Modification of ERP system

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

Plan of Action	Achivements/Outcomes		
UGC status	Two(f) status of obtained		
MODROB Initiatives	CSE and EC departments received funds		
Modification of ERP system	ERP incorporated a) type of course delivery methods b)split up marks c) Course U/V activities and points		
NBA Reaccreditation	CSE,ECE,ME and CE Re accredited for years		
Faculty Exchange Program	one facutly from MBA department availed faculty exchange program if ERASMUS +		
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	4. Whether AQAR was placed before statutory ody ?	Yes
	Name of Statutory Body	Meeting Date 28-Jul-2021
b	5. Whether NAAC/or any other accredited ody(s) visited IQAC or interacted with it to ssess the functioning ?	Yes
D	ate of Visit	29-Feb-2020
	6. Whether institutional data submitted to ISHE:	Yes

Year of Submission	2020
Date of Submission	03-Mar-2020
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

Curriculum Delivery Mechanism: 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. Curriculum planning and delivery is documented regularly in ERP, launched during academic session 2018-19. Course plan: Before the beginning of semester, faculty members prepare and upload course plan duly approved by respective HOD in ERP. As per this, the course syllabus is covered at appropriate pace including proper revisions prior to the commencement of 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, extra classes will be scheduled as and when required during holidays. The HOD monitors the implementation of course plan. Course/class committee meetings with student representatives are conducted and feedback from students is taken twice in a semester. Students' progress is assessed through class tests and reported to parents/PTA meeting. Course plans for lab Course plans for lab are also prepared. 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. Pedagogical model: The institution follows pedagogical model based on Revised Blooms Taxonomy (RBT) enabling the students to achieve the knowledge through all levels of learning. Faculty prepare learning materials, question bank, previous question papers, follow chalk and board and ICT. The abstract concepts are explained with reference to real world situations. During tutorial hours, extra problems will be given to students for problematic courses or difficult concepts will be explained forother courses. Two teachers will be in charge of this hour which will provide individual attention. Student mentoring is practiced to continuously monitor and motivate the students. Remedial classes are offered by concerned faculty, to students who have fallen behind the rest of class in academics. Online feedback for all courses are collected from students of respective semesters twice in a semester. Tools used for curriculum delivery: • Lecture • PPT • Videos • Case study • Role play • Invited talks by luminaries • On the job training • Peer learning • Hands on entrepreneurial experience • Demonstration of certain topics in syllabus by taking students to laboratories • Hands on training by conducting workshops Documentation: • Portion coverage of course syllabus is shown in lesson plan • PPT and videos are shared in Google drive and in ERP • Lecture notes are shared in Google drive and in ERP • Mentoring details • Remedial class details

Certificate					
	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
ASAP- Google Cloud	Nil	05/09/2019	90	yes	yes
ASAP-UI Path	Nil	03/10/2019	30	yes	yes
ASAP-Maps Location Technology	Nil	01/04/2020	45	yes	yes
Diploma in cyber security and forensics	Nil	19/10/2019	25	yes	yes
I.2 – Academic Fl	evibility				
	-	oduced during the ac	ademic vear		
		-			
	ne/Course	Programme Sp		Dates of Int	
B	lech	Robotics and		22/07	/2019
		<u>View Uplo</u>	<u>aded File</u>		
-		Based Credit System the academic year.	(CBCS)/Elective	course system imple	emented at the
	mmes adopting CS	Programme Sp	pecialization	Date of impler CBCS/Elective C	
B	ſech	INFORMATION TECHNOLOGY		01/08/2019	
Mi	tech	CONSTR ENGINEERING AN		01/08	3/2019
	rech MBA		ND MANGEMENT		3/2019 3/2020
1	ИВА	ENGINEERING AN HR: CON	ID MANGEMENT SULTING ND PRACTICE	04/03	-
1	ИВА	ENGINEERING AN HR: CON PROFESSSION A	ID MANGEMENT SULTING ND PRACTICE	04/03	3/2020
1.2.3 – Students er	ИВА	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in	ID MANGEMENT SULTING ND PRACTICE troduced during t	04/03 he year Diploma	3/2020
1.2.3 – Students er Number o	MBA nrolled in Certificate, f Students	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific	ID MANGEMENT SULTING ND PRACTICE troduced during t	04/03 he year Diploma	3/2020 Course
1.2.3 – Students er Number o	MBA nrolled in Certificate, f Students Enrichment	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific	ID MANGEMENT SULTING ND PRACTICE troduced during t cate	04/03 the year Diploma	3/2020 Course
1.2.3 – Students er Number o I.3 – Curriculum I 1.3.1 – Value-adde	MBA nrolled in Certificate, f Students Enrichment	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific 14	ID MANGEMENT SULTING ND PRACTICE Itroduced during t cate	04/03 the year Diploma	3/2020 Course 0
1.2.3 – Students er Number o I. 3 – Curriculum I 1.3.1 – Value-adde Value Adde	MBA f Students Enrichment d courses imparting	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific 14	ID MANGEMENT SULTING ND PRACTICE Atroduced during t cate 45 e skills offered dur oduction	04/03 the year Diploma	3/2020 Course 0
1.2.3 – Students er Number o I. 3 – Curriculum I 1.3.1 – Value-adde Value Adde	MBA f Students Enrichment d courses imparting ed Courses	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific 14 transferable and life Date of Intro	ID MANGEMENT SULTING ND PRACTICE Atroduced during t cate 45 e skills offered dur oduction / 2019	04/03 the year Diploma ring the year Number of Stud 3	Course 0 lents Enrolled
1.2.3 – Students er Number o 1.3 – Curriculum I 1.3.1 – Value-adde Value Adde Placemen Life Geosynt reinford	MBA f Students Enrichment d courses imparting ed Courses t training	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific 14 transferable and life Date of Intro 01/08	ID MANGEMENT SULTING ND PRACTICE troduced during t cate ±5 skills offered dur oduction /2019 /2019	ing the year Number of Stud	Course 0 lents Enrolled 80
1.2.3 – Students er Number o 1.3 – Curriculum I 1.3.1 – Value-adde Value Adde Placemen Life Geosynt reinford structures (Glass in	MBA f Students Enrichment d courses imparting ed Courses t training skill hetic and ced soil	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific 14 transferable and life Date of Intro 01/08 01/08	ID MANGEMENT SULTING ND PRACTICE Atroduced during to cate 45 e skills offered dur oduction /2019 /2019 /2019	ing the year Number of Stud	Course 0 lents Enrolled 80
1.2.3 – Students er Number o I.3 – Curriculum I 1.3.1 – Value-adde Value Adde Placemen Life Geosynt reinford structures (Glass in Design and a Modern Co	MBA f Students Enrichment d courses imparting ed Courses t training skill hetic and ced soil MOOC course) buildings :	ENGINEERING AN HR: CON PROFESSSION A / Diploma Courses in Certific 14 transferable and life Date of Intro 01/08 01/08 01/07	ID MANGEMENT SULTING ND PRACTICE Atroduced during to cate 45 e skills offered dur oduction / 2019 / 2019 / 2019 / 2019	04/03 the year Diploma ing the year Number of Stuc 3 4	Course 0 lents Enrolled 80 11 4

Plastic Waste Management	01/03	L/2020	12
Natural Hazards	01/01	L/2020	6
Earthquake Management	01/01	L/2020	1
Artificial Intelligence Machine Learning - Term 2: Deep Learning by ASAP IBM	01/09	9/2019	24
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1.3.2 – Field Projects / Internships und	er taken during the	year	
Project/Programme Title	Programme S	pecialization	No. of students enrolled for Field Projects / Internships
MBA	М	BA	119
BTech	Electr Communication	onics & Engineering	27
BTech	Computer Science & Engineering		62
BTech	Information	n Technology	14
BTech	Electrical & Electronics Engineering		95
BTech	Civil En	gineering	129
BTech	Mechanical	Engineering	22
BTech	Safety Engine	and Fire ering	48
BTech	Electr Communi	onics & cation	27
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1.4 – Feedback System			
1.4.1 – Whether structured feedback re	eceived from all the	stakeholders.	
Students			Yes
Teachers			Yes
Employers			Yes
Alumni		Yes	
Parents			Yes
1.4.2 – How the feedback obtained is t (maximum 500 words)	being analyzed and	utilized for overall o	levelopment of the institution?

a) Course end surveys from students and faculty feedback are taken for evaluating the quality of course contents. Based on these surveys, recommendations on required revision of the syllabus will be intimated to the university authorities through Head of the Institute. This when carried out by the university will narrow the curricular gaps in the course. b) Student exit feedback taken at the end of graduation on overall facilities at the department c) Program exit survey helps the department to identify the gaps in different courses included in the program. d) Alumni survey helps the department to

identify the latest technologies that the program should include. e) Employer surveys collected can be used to identify the performance gaps in students which can be mitigated by providing training in appropriate skills and by including add on courses. f) Through the meeting with the experts from industry and reputed institution, we can identify the weaknesses of our students in general and appropriate temporary remedial measures could be adopted to strengthen them. g) After the every events like technical talk, workshop, awareness class, seminar, conferences, etc. Student feedback is taken and analyzed to check the effectiveness of the same. To check the effectiveness and impact of the industrial interaction on students, a feedback is taken and analyzed after every industrial visit/ internship as follows • Questionnaire for feedback are prepared based on POs and PSOs. . • Feedbacks are collected from students to assess the impact, based on the level of improvement through the mapped POs/PSOs. • Feedback collected is compiled and segregated with respect to the three correlation levels viz. level 1- 1, level 2- 2 level 3- 3 for each mapped PO PSO . Weighted average of mapped POs and PSOs are calculated. • Average PO PSO for the various feedback for the particular academic year /admission is calculated. • Attainment obtained from feedback is used to calculate the indirect attainment for the year/admission.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled	
BTech	CE	60	51	37	
BTech	CS	60	105	63	
BTech	EC	60	72	34	
BTech	RA	60	102	49	
BTech	ME	120	75	44	
BTech	IT	30	41	19	
BTech	EEE	60	32	16	
BTech	FS	60	113	55	
Mtech	CONSTRUCTION ENGINEERING & MANAGEMENT	24	30	16	
Mtech	WIRELESS TECHNOLOGY	18	12	4	
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2.2.1 – Student - Full time teacher ratio (current year data)

Number of Year Number of Number of Number of Number of students enrolled students enrolled fulltime teachers fulltime teachers teachers in the institution in the institution available in the available in the teaching both UG (UG) (PG) institution institution and PG courses teaching only UG teaching only PG courses courses 2019 1337 193 100 13 12

2.3 – Teaching - Learning Process

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

earning resources e	etc. (current y	ear data)						
Number of Teachers on Roll	Number of teachers us ICT (LMS, Resource	sing res e- av	Fools and sources ailable	Number o enable Classroe	əd	Numbero classro		E-resources and techniques used
125	124		4	41	1	:	2	11
		View File	e of ICT	Tools an	d resc	ources		
	View	V File of	E-resour	ces and	techni	<u>iques us</u>	ed	
2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)								
2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words) TIST follows student mentoring system since its inception. In each department, students in groups, are assigned to mentors, who are the faculty from the respective department. The institute also has a separate Department of Applied Psychology and Counselling, with two full time counsellors available in the campus. The students are at liberty to approach any of them for help and guidance. Initially, in each class, the class in charges were assigned as mentors for each half. The mentors interacted with students and any academic or personal difficulties identified were taken care in consultation with the respective HOD. The students who had emotional instabilities, family problems or learning disabilities were referred to the psychology department. The counsellors would discuss the cases and provide psychological counselling and the feedback is given to the respective HOD. If a particular student's case is grave or is of a very sensitive nature, the same was informed to the Head of the Institution. In such cases, parents were also called for counselling so that an overall intervention could be done, both at the institution level and at the family level. Referral services were also provided by the counsellors. If additional expertise required, the student was referred to the Director in the Management Board, who is a senior counsellor with more than 40 years of experience in counselling. Students who required psychiatrist. From the academic year 2014-15, the mentoring system was refined. The students of each class were divided in groups of 15 or 20 and each group was assigned with a mentor forms were maintained for all semesters by the respective departments. The mentor form for each semester consists of personal details of the students of the student and valares, whether a hostler/day scholar, academic details, attendance, academic difficulties, any professional help needed, whether active or indifferent int								
Number of studer	ution			Itime teache				entee Ratio
	530			L25			1	:12
.4 – Teacher Prof 2.4.1 – Number of f		-	during the	Vear				
			-	-	Dealtic	no fillod de	ring	o of fooultreast
No. of sanctioned positions	u INO. OT fil	led positions	vacant	oositions		ns filled du current yea	~ I	lo. of faculty with Ph.D
125		125		4		4		22
2.4.2 – Honours and International level fro	-	•	•			ognition, fel	llowships	at State, Nationa
Year of Awa		me of full tim		1	,	n	Name	

	international level		bodies		
2019	Elsaba Jacob	Assistant Professor	Computer Society of India		
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester- end/ year- end examination
BTech	CE	Sl	25/11/2019	08/05/2020
BTech	EEE	Sl	25/11/2019	08/05/2020
BTech	CS	S1	25/11/2019	08/05/2020
BTech	IT	S1	25/11/2019	08/05/2020
BTech	ECE	Sl	25/11/2019	08/05/2020
BTech	ME	S1	25/11/2019	08/05/2020
BTech	FS	S1	25/11/2019	08/05/2020
BTech	RA	S1	25/11/2019	08/05/2020
Mtech	CE	S1	25/11/2019	25/03/2020
MBA	MBA	Sl	19/11/2019	29/07/2020

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

Internal Assessment Test for theory courses • Two internal assessment test are conducted during a semester • As per academic calendar the schedule for the internal assessments are prepared by the Internal Assessment (IA) cell and circulated to the department • Faculty members are instructed to use Revised Bloom's taxonomy to prepare the question papers that test the various levels of learning and the relevant course outcomes. • The analytical and descriptive skills of students are tested by these internal assessment tests. • Question paper scrutiny committee assesses the quality of question papers submitted by individual faculty members. Also, it ensures the clarity of the questions on various aspects. • IA Exams are conducted through Internal Examination Cell. • Proper records are maintained for question paper collection and conduct of retest • The scheme of evaluation and answer key of each question paper is prepared. • Grading should be done strictly based on evaluation scheme. • Answer scripts are evaluated by the concerned subject faculty members within a week and the result is published. • Student may be allowed to take retest only

on medical or other genuine grounds. • Each faculty provides effective feedbacks regarding performance and presentation of answers to students. • Marks scored for individual questions are recorded to ascertain the attainment of COs. • During ISO and KTU audit, the function of IA cell and its process are assessed. For Lab Evaluation • For practical paper, Continuous Assessment (CA) is done by considering day to day laboratory work, record submission and viva is carried out every lab hour. For B.Tech ,70 marks is allotted for continuous evaluation in lab as per KTU norms and 30 marks is allotted for laboratory examination which will be conducted at the end of the semester. For M.Tech ,40 marks is allotted for continuous evaluation in lab as per KTU norms and 60 marks is allotted for laboratory examination which will be conducted at the end of the semester. For Project • The project guides regularly monitor the progress of project based on weekly discussions. • Interim Presentation is done by each project group for B.Tech and for each student for M.Tech before the expert committee. • The committee of internal and external examiners along with the guide will evaluate the final project/research work for B.Tech and M.Tech. For Seminar • A seminar guide is allotted for each student. • Students have to submit the seminar report to guide before the final presentation. • Presentation is done by each student before the expert committee. The committee of internal examiners along with the guide will evaluate the final seminar work done by student in B.Tech and M.Tech.

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 viz, 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, Universityexams, Internal assessment test, End of the semester, Seminars, Workshops, Technical fest, Schedule for practical exams as specified by 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)

https://tistcochin.edu.in/cs/peo_-po_-pso/

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ŬĠ	BTech	ECE	64	33	51.56
ŬĠ	BTech	CSE	60	48	80
ŬĠ	BTech	CE	62	42	67.8
ŬĠ	BTech	ME	114	75	65.78
ŬĠ	BTech	IT	29	12	41.37
ŬĠ	BTech	EEE	40	19	47.5
UG	BTech	SF	48	24	50

PG	MBA	MBA	59		58	98
PG	Mtech	Construction Enginering & Management	21		21	100
PG	Mtech	Wireless Technology	5		5	100
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.7 – Student Satisfa	action Survey					
2.7.1 – Student Satisf uestionnaire) (results			utional perform	nance (Institu	ution may	design the
<u>https://ti</u> :	stcochin.edu	.in/wp-content Survey-201		2021/08/St -	tudent-	Satisfaction-
RITERION III – R 1 – Resource Mob			D EXTENSI	ON		
.1.1 – Research fund	ds sanctioned and	d received from varie	ous agencies,	industry and	d other or	ganisations
Nature of the Projec	t Duration	Name of th ager	-	Total grai		Amount received during the year
Major Projects	365	MOI	DROB	17		12
Students Research Projects (Other than compulsory by the University)		; U	BA	2		1
Any Other (Specify)	365	AS	SAP	4.46		2.39
Major Projects	1095	Unnat Abhi (UBA),C for R Develo Technolo Del	Centre ural pment ogy New	1		1
	·	<u>View Uplo</u>	baded File		· · ·	
.2 – Innovation Eco	osystem					
2.2.1 – Workshops/Se ractices during the ye		ed on Intellectual Pr	operty Rights	(IPR) and In	dustry-Ac	ademia Innovative
Title of worksho	pp/seminar	Name of t	he Dept.			Date
Talk on Re Methodolo	ogy by	Departmen	t of ECE		07/1	1/2019

Department of ECE

Department of ECE

18/11/2019

22/11/2019

Dr.K.Gnanasheela. Workshop on Arduino

Microcontroller Board and Applications Workshop on LATEX by

Dr.K.Gnanasheela		
Social Outreach program on Introduction to recent trends in Electronics and Communication and future of Technology at Govt.H.S.S,Chottanikkara.	Department of ECE	29/11/2019
Industry Internship Program on Electronics Design and Technology by Digital Core Technologies	Department of ECE and RA	06/01/2020
Workshop on Photoshop	Department of ECE and RA	20/01/2020
Social Outreach program on Engineering your Future with Electrobotics at St Ignatius V H S E Kanjiramattom.	Department of ECE and RA	24/01/2020
Social Outreach program on Engineering your Future with Electrobotics at Model Technical Higher Secondary School Karparaserry	Department of ECE	27/01/2020
Talk on Livestock Health Monotoring tracking by Mr.Romeo Mr.Sreeshankar, CEO, Brainwired start up.	Department of ECE and RA	30/01/2020
Technical Symposium Technophilia 20	Department of ECE and RA	31/01/2020
Paper Presentation Papyrus	Department of ECE and RA	31/01/2020
ELECSTA Department Association Inauguration	Department of ECE	17/02/2020
Talk on Recent Progress in atmospheric sciences by Dr.Abilash S Associate Director, ACARR,CUSAT	Department of ECE	17/02/2020
Project Expo Texplora	Department of ECE	01/02/2020
Construction Management in Building Information Modelling	Civil Engineering	30/12/2019
Emerging Trends in Sustainable Development in Transportation Engineering	Civil Engineering	23/09/2019
Webinar on Career Opportunities for CS/IT Professionals after Graduation by Mr. Rajesh Sasidhar, HR Admin Manager, CGP Career Avenues	Department of CSE	27/06/2020

Webinar on Engineering Career The Power to Empower" by Renjit Keshav, Leadership Trainer, Social Political Analyst, MD Insight Job Guru	Department of CSE	21/06/2020
Live Webinar on Recession Proof Careers After Graduation in association with TIME.	Department of CSE	13/06/2020
Career Readiness Study Jam - Google Cloud Workshop by delegates from Google	Department of CSE	12/02/2020
Workshop for women entrepreneurs by WING	Department of CSE	06/02/2020
Awareness session on GATE by ACE academy, Hyderabad.	Department of CSE	06/02/2020
An expert session on 'Block Chain Technologies by Mr. Girish Babu, Expertz Lab	Department of CSE	04/06/2020
Workshop on 'Python for problem solving' by Mr. Siddharth Prajosh C, Software Engineer, Belong.co, Bangalore	Department of CSE	31/01/2020
Two days' workshop on Machine learning by Mr. Yadev Jayachandran, Mr. Rahul Murali and Ms. Varsha Hari (ASAP trainees, final year students).	Department of CSE	31/01/2020
Two day Python workshop and coding event by Mr.Jishnu N V and Mr. Abhay P A, (Tinker Hub, TIST)	Department of CSE	24/01/2020
Motivational talk Do Differently by Jibin Jose, CEO and co-founder, FLIP, Rethink	Department of CSE	24/01/2020
Workshop on IoT by. Mr. Jishnu N V and Mr. Abhay P A (Tinker Hub, TIST)	Department of CSE	09/01/2020
An orientation session on Reboot Kerala Hackathon and TCS Certification programs by Mr. Amith Narayanan, Program	Department of CSE	13/11/2019

Manager, ASAP		
Workshop on Introduction to Block Chain TechnologiesbyMr. Sabir Aboobaker and Mr. Nikhil V Chandran, Research Fellows, KBA	Department of CSE	25/10/2019
Workshop on Entrepreneurship and Business model byE-Cell IIT Bombay ,handled by Mr. Babu Mohanan, Former Scientist, ISRO	Department of CSE	25/10/2019
An awareness session on WING - "Women Rise Together" was organized for the girl students by Mr. Shameem and Ms. Varsha from Kerala Start up Mission	Department of CSE	24/10/2019
Expert lecture on Data Science by Mr. Sherry Thomas, Sr. Consultant Data Science, Trainon.in (former Lead Consultant, Cresco Business Solutions)	Department of CSE	18/10/2019
Motivational Session on Career Development by Mr. Aravind Das, UVJ Technologies	Department of CSE	05/10/2019
Technical session on Django by Mr. Sarath S, Kites Softwar	Department of CSE	11/10/2019
A Technical Session on Android Fundamentals by Mr. Jinu John, Immneos Technologies, Technolodge, Kakkoor	Department of CSE	04/10/2019
Orientation on IBM courses under ASAP - Blockchain, IoT, Data Science and Business Analytics by Mr. Dinesh Baliga, IBM	Department of CSE	01/10/2019
A technical session on Android Fundamentals by Mr. Jinu John, Immneos Technologies, Technolodge, Kakkoor	Department of CSE	27/09/2019
A Webinar on Overview on 3D Visualization and Animation by Dr. Sameer Sahasrabudhe (IIT Bombay)	Department of CSE	16/09/2019

A Curtain raiser session on cyber security conference c0c0n XII by Mr. Joby Joy, ISRA (Information Security Research Association)	Department of CSE	29/08/2019
Motivational Session on Being Industry Ready by Mr. Denny S Dhar, Director, Casper Technologies.	Department of CSE	27/08/2019
A technical session on Cyber Security and Cyber Forensics by Ms. Rachel Sara Jacob, FACE, Vytilla	Department of CSE	22/08/2019
An orientation on newly introduced ASAP courses - Google ACE, UIPath Robotic Process Automation by Mr. Amith Narayanan, Program Manager, ASAP, Kalamassery.	Department of CSE	21/08/2019
Design Project Orientation Workshop byDr. K S Mathew, Professor, RSET	Department of CSE	03/08/2019
A technical session on Artificial Intelligence by Ms. Anagha P. Shibu, Cogniz English Academy	Department of CSE	02/08/2019
An Induction Program for first year studentsby the Trainers from ICT Academy of Kerala (ICTAK).	Department of CSE	25/07/2019
Short Term Industrial Internship Training for 10 days on FOSS and Enterprise Solutions d by Mr. Raphy P Varghese, CEO, gooseBerry.media, Technolodge, Piravom.	Department of CSE	08/07/2019
A workshop on "Electrical Maintenance" for S1 students	Department of EEE	25/10/2019
EEEDepartment in Association with NIT Trichy organized a one day workshop on Hybrid Electric Vehicle.	Department of EEE	31/01/2020
EEE department in Association with IEDC organized a talk on	Department of EEE	20/02/2020

"Power Frequency Control" as part of 'Mentor of the Month Series'. Mr. Dennis Rajan (Asst. Executive Engineer, KSEB, Chithirapuram, Munnar) was the resource person.		
Women in Engineering(WIE SUMMIT 2k19	Department of ECE	21/07/2019
Choosing the Right Career by Ms.Chandra Vadhana	Department of ECE	21/07/2019
Workshop on Image Processing by Mr.Nithin ,NIT Calicut	Department of ECE	22/07/2019
Workshop on Women in Entrepreneurship by Mr.Sonu J A , CEO of Starting Trouble.	Department of ECE	22/07/2019
Talk on Cyber Security by Mr.Hiron Bose, Scientist, Knowledge Research Centre, CDAC	Department of ECE	22/07/2019
Induction Programme for First year students	Department of ECE	22/07/2019
Workshop on Arduino Microcontroller Board and applications for Bhavans Newsprint Vidyalaya Students, Velloor	Department of ECE	26/07/2019
Workshop on Python programming and image processing using Open CV Python for S7 ECE students	Department of ECE	02/08/2019
Technical Talk on Recent Developments in Embedded Systemsby Mr.Nikhil P Ajayan, CEO, Set InternStart up	Department of ECE	03/08/2019
Social Outreach program on Introduction to recent trends in Electronics and Communication and future of Technology at St. Stephens Bes-ania Public school, Kothamangalam	Department of ECE	05/08/2019
Workshop on Mobile Robotics for S3 and S5 ECE students	Department of ECE	07/08/2019
Workshop on Arduino Microcontroller Board and applications for St. Marys Higher Secondary	Department of EC and RAE	17/08/2019

School students, Morakkala		
Workshop on Python programming and image processing using Open CV Python for S7 ECE students	Department of ECE	21/08/2019
Orientation on ASAP Courses -Google ACE -RPA for Final year Students by Mr. Amith Narayanen, ASAP ,Kalamaserry	Department of ECE	21/08/2019
Infosys Specific Training Programme	Department of ECE	28/08/2019
Workshop on Mobile Robotics for S3 and S5 ECE students	Department of ECE	30/08/2019
Social Outreach program on Introduction to recent trends in Electronics and Communication and future of Technology at Warwin Senior Secondary School, Vaikom	Department of EC and RAE	04/09/2019
Social Outreach program on Introduction to recent trends in Electronics and Communication and future of Technology at St. George Higher Secondary School Students, Vennikulam	Department of EC and RA	25/09/2019
Workshop on Arduino Microcontroller Board and applications for St. George Higher Secondary School Students, Vennikulam	Department of ECE and RA	27/09/2019
Infosys Specific Training Programme	Department of ECE	03/10/2019
Technical Talk on Recent Developments in Embedded Systems by Mr.Nikhil P Ajayan, CEO, Set InternStart up Workshop on Arduino Microcontroller Board and applications for S1 students	Department of ECE and RA	05/10/2019
Social Outreach program on Introduction to recent trends in Electronics and Communication and future of Technology at Govt.	Department of ECE and RA	11/10/2019

H.S.S, Mulan	thuruthy							
Workshop on Microcontroller applications studen	Board and for Sl	Depa	rtment o	f EC and	RAE	16/	10/2020	
Social Outread on Introduction trends in Elect Communication of Technology Marys Higher School, Tha	a to recent cronics and and future y at St. Secondary	Depa	rtment o:	f ECE an	d RA	17/	10/2019	
Social Outread on Introduction trends in Elect Communication a of Technology a Vidyala	to recent cronics and and future at Chinmaya	Department of ECE and RA			18/	18/10/2019		
Social Outreach program on Introduction to recent trends in Electronics and Communication and future of Technology at Bhavans Munshi Vidyashram		Depa	rtment o:	f ECE an	d RA	19/	10/2019	
Workshop on Microcontroller applications studen	Board and for Sl	Depa	rtment o: Ri		d RA	25/	10/2019	
Technical I Advanced Comm Perspectiv Dr.K.Gnanas	unication res by	Department of ECE			04/	11/2019		
Talk on Ethical Dr.Alex Ma President, Too School So	thew, H Public	I	Departmen	t of ECE	2	06/	11/2019	
3.2.2 – Awards for Inne	ovation won by l	nstitutio	n/Teachers/	Research s	scholars	/Students during	the year	
Title of the innovation	Name of Awa	rdee	Awarding	Agency	Dat	e of award	Category	
Highest Committed Student Activist Award	Mr.Yad Jayachand		C	SI	18	3/01/2020	National level	
Stellar arm	Ann Mary Aiswarya Se shikaChinnu u, Muhamu Sahl K	en, A 1Shab med	Natio Student Award	Project CSI		7/06/2020 National level		
			<u>View Uplo</u>					
.2.3 – No. of Incubation	on centre create	d, start-	ups incubat	ed on camp	ous durir	ng the year		
Incubation Name Sponsered By Na				Name of	of the Nature of Start- Date of Commencem			

NIL	NI	L	NI	Ľ		NIL		NIL	Nill		
			No	file	upload	led.					
3.3 – Research F	Publications	and Av	wards								
3.3.1 – Incentive	to the teacher	s who re	eceive reco	gnition/a	awards						
S	State			Natio	onal			Internat	ional		
	0			0)			0			
3.3.2 – Ph. Ds aw	varded during	the yea	r (applicabl	e for PG	College	, Research	Center))			
Ν	Name of the D	epartme	ent			Num	ber of P	hD's Award	ed		
	Electr	onics						1			
3.3.3 – Research	Publications i	n the Jo	ournals noti	fied on l	JGC wel	osite during	the yea	ır			
Туре		D	epartment		Num	per of Publi	lication Average Impact Factor any)				
Natio	nal	Depai	rtment o	f EEE		1	7.87				
Internat	cional	Depa	rtment o	of CE		10	Nill				
Internat	cional	Depai	rtment o	f CSE		4	2.72				
Internat			rtment o		4			1.09			
Internat	cional	Depai	rtment o		loaded File			6.3			
3.3.4 – Books and Proceedings per T	•			sooks pu	iblished,	and papers	s in Natio	onal/Internat	ional Conference		
	Departm	nent				Nu	umber of	f Publication			
	Civ							25			
Electi	ronics and	Commu						23			
				-	oaded						
3.3.5 – Bibliometr Web of Science of			-	alast Aca	ademic y	ear based	on avera	age citation i	ndex in Scopus/		
Title of the Paper	Name of Author	Title	of journal	Yea public	-	Citation In	a m	nstitutional affiliation as nentioned in e publication	Number of citations excluding self citation		
Experime ntal Study on the Properties of Bendable Concrete	Vasudev R	not Civ: ne ,Sp Natu	ecture tes in il Engi ering pringer ure Swi erland	2	019 0		of	Toc H nstitute E Science and echnology			
Experime ntal Study on Hybrid Fibre Reinforce Geopolymer	Lathi Karthi	not Civ: ne ,Sp Natu	ecture tes in il Engi eering pringer ure Swi erland	2	019	0	of	Toc H nstitute E Science and echnology			

· · · · · ·						
Assessment of factors causing Delay in C onstructio n for Indian Res idential Building	Smitha KK	Lecture notes in Civil Engi neering ,Springer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0
Developm ent of Frame Work for Reside ntial Building C onstructio n Using Agile Management	SahimolE ldhose	Lecture notes in Civil Engi neering ,Springer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0
Influence of Cycle Time on the Produc tivity of Transit Mixers	Annie Sonia Xavier	Lecture notes in Civil Engi neering ,Springer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0
Experime ntal study on Self Compacting Self Curing Concrete Using Copper Sag as partial replacemen t of Fine Aggregate	Elba Helen George	Lecture notes in Civil Engi neering ,Springer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0
Experime ntal Inves tigation on Geopoly merMasonar y Units	Vidya Jose	Lecture notes in Civil Engi neering ,Springer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0
Study on Mechanical Properties of Self Healing Self curing concrete	Vidya Jose	Lecture notes in Civil Engi neering,Sp ringer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0

Evaluation of 5S Conformity in Residen tial Building sites using RADAR charts	Anu V V	Lecture notes in Civil Engi neering,Sp ringer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0
Forecast ing of Material cost in Road const ruction through Material Control Technique	Anu V V	Lecture notes in Civil Engi neering,Sp ringer Nature Swi tzerland	2019	0	Toc H Institute of Science and Technology	0
		Vie	ew Uploaded	<u>File</u>		
3.3.6 – h-Index of	f the Institutiona	Publications du	ring the year. (ba	ased on Scopus/	Web of science))
Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Developm ent of Frame Work for Reside ntial Building C onstructio n Using Agile Management	SahimolE ldhose	Lecture notes in Civil Engi neering,Sp ringer Nature Swi tzerland	2019	0	0	Toc H Institute of Science Technology , Arakkunnam
Assessment of factors causing Delay in C onstructio n for Indian Res idential Building	Smitha KK	Lecture notes in Civil Engi neering,Sp ringer Nature Swi tzerland	2019	0	0	Toc H Institute of Science Technology , Arakkunnam
Experime ntal Study on the Properties of Bendable Concrete	Vasudev R	Lecture notes in Civil Engi neering,Sp ringer Nature Swi tzerland	2019	0	0	Toc H Institute of Science Technology , Arakkunnam

Experime ntal Study on Hybrid Fibre Reinforce Geopolymer	Lath: Karthi Annie	notes in Civil Eng neering,S ringer Nature Sw tzerland	n gi Sp vi A	019	1	0		Toc H Institute of Science Technology , Arakkunnam Toc H
Influence of Cycle Time on the Produc tivity of Transit Mixers	Sonia Xavier	notes in Civil Eng neering,S ringer Nature Sw tzerland	gi Sp vi					Institute of Science Technology , Arakkunnam
			<u>View Upl</u>	oaded F	<u>ile</u>			
3.3.7 – Faculty pa	articipation i	n Seminars/Confe	erences and	l Symposi	a during the ye	ar :		
Number of Fac	ulty I	nternational	Nati	onal	State	9		Local
Attended/s nars/Worksh		13		57	43	L		36
Presente papers	ed	4		4 4				0
Resourc persons	e	0		0	1			0
			No file	uploade	ed.			
3.4 – Extension	Activities							
3.4.1 – Number o Non- Government								
Title of the ad	ctivities	Organising unit collaborating	• •	partic	per of teachers ipated in such activities		articipa	of students ited in such iivities
Technical outreach- kites init	little	CSI	Ι		2			60
Career Gu and Entreprene for school s	urship	CSI	I		2			60
Empowe housewive computer ed	es in	NSS, CS	I,UBA		5			12
Project	expo	CSI	[2			10
General Competitic School Stu	on for	CSI	[2			25
Rehabilita Street Ve		Pirav Municipa			5			8
Re-Build	Kerala	Governme Kerala			14			71

SampoornaJalasura	SampoornaJalasura	6	52
ksha mission-1st	ksha mission-1st		
Water Pilot Project	Water Pilot Project		
in Kerala	in Kerala		

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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	Number of students Benefited
Technical Events	Highest Committed Student Branch Award	CSI	245
CSI InApp National Student Project Awards	Consolation Prize (Selected for the Final Round)	CSI	4
Technical Events	Longest Continuous SBC Award	CSI	1
Technical Community Development	Technology Innovation Fellow	Kerala Start up Mission	1
	I/i or		

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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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Women Empowerment	Pehia Foundation	Supporting Women Coders	1	1
Rehabilitation of Street Vendors	Piravom Municipality	Detailed preparation of DPR	5	8
SampoornaJala suraksha Mission-1st Water Pilot project in Kerala	AmballoorGram apanchayat, Kerala	Quality testing of water samples	6	52
Re-Build Kerala	Kerala Government	Rehabilitation of roads (detai ledinvestigatio n of the roads which was affected by flood)	14	71
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Nature of activ	ity	F	Participant	Source of financial	support		Duration
Academic Pro	oject	Acad	lemic Project	CERD		365	
Technical E	vents		Students	ICFOSS		365	
Research- Se up Machine Lea Lab	~		Faculty	MODROE	5	365	
Research- Ic	T Lab		Students	Student	S		365
Faculty Exc	hange		r.George C Mathew	Erasmus Programme funded by European Union		5	
			View	<u>v File</u>			
.5.2 – Linkages with cilities etc. during th		ons/indus	tries for internship,	on-the- job training,	project w	vork, shar	ing of research
Nature of linkage	Title o linka		Name of the partnering institution/ industry /research lab with contact details	Duration From	Durati	on To	Participant
Industry supported lab	Tech supp	nical ort	Ambuja Cements Contact No: 9544997070	26/12/2019 30/12		2/2020	22
5.3 – MoUs signed	with inst	titutions o		<u>v File</u> onal importance, oth	er univer	sities ind	ustries corporat
buses etc. during the							
Organisation	Organisation Date of		of MoU signed	Purpose/Activi	tios	Ν	Number of
					1105	stud	ents/teachers ated under MoUs
L and T	7	1	.3/06/2019	Sharing of I Products intro in markets upgrading Switchgear setup presen the institut Traning sess for B Tech / students for 5days for for courses LT 14 troduction industria Electrical s	LT New oduced for LT Lab tt in te . Cions MTech 3to the 4- In to 1	stud	ents/teachers

Oracle A	cademy	05	/03/202	20	Sof	tware Licens	se	2		
	-					racle/ Oracl	-			
						ology Progra				
					and 0	racle Premie Support	er			
Kerala	Block	19	/02/202	20	G	et students		61		
Chain Aca	ademy					iar with blo	-			
					chai	n technology	7			
				<u>View</u>	<u>v File</u>					
RITERION IV	– INFRAS	TRUCTU	RE AND) LEAR	NING F	RESOURCES				
.1 – Physical Fa										
1.1.1 – Budget all	ocation, exc	cluding sala	ary for infr	astructu	re augm	entation during th	ne year			
Budget alloca	ated for infra	astructure a	augmenta	tion	Bu	dget utilized for i	nfrastructure de	velopment		
	1	.18					110.31			
4.1.2 – Details of	augmentatio	on in infras	tructure fa	acilities c	luring the	e year				
	Facil	ities				Existing	or Newly Added			
Seminar	halls wi	th ICT	Eacilit	ies		Ne	wly Added			
				<u>View</u>	<u>v File</u>					
.2 – Library as	a Learning	Resource	9							
.2.1 – Library is	automated {	Integrated	Library M	lanagem	ent Syst	em (ILMS)}				
Name of the	ILMS	Nature of	automatic	on (fully		Version	Year of	automation		
softwar	е	or	patially)							
Libra		Pa	artiall	У	LMS 2018 2013			2013		
Management	—									
.2.2 – Library Se	ervices									
Library		Existing			Newly	Added	То	Total		
Service Type					,			Total		
Text Books	40687	16	937735	1	057	600871	41744	1753860		
BOOKS	14762		12602	1	42	75015	14904	7089598		
Reference	T4\07		13683	'	. 74	75915	14904	/089598		
Books										
e-Books	4259		0	8	469	153153	12728	153153		
Journals	1754	28	52505	1	180	385076	1934	3237583		
e- Journals	5	33	29332		0	848402	5	4177734		
Digital Database	737		0	1	25	0	862	0		
CD & Video	1004		0		71	0	1075	0		
Digital Database	578		0		59	0	637	0		
Weeding (hard &	1579		0		46	0	1625	0		

	anagement		1S) etc	Modulo	Platform o	n which me		Date of launc	hing o-
Name o				Module	Platform on which module is developed			conten	-
MARY I	OHANYA	v			YOUTUE	BE	1	8/03/2020)
VIDYA	JOSE	v			YOUTUE	BE	1	4/05/2020)
ANJU I	PAUL	v			YOUTUE	BE	1	5/04/2020)
RENJU	RAJ	V	C		YOUTUE	BE	0	3/04/2020)
				<u>Viev</u>	<u>v File</u>				
.3 – IT Infr	astructure								
4.3.1 – Tecł	nnology Upg	gradation (o	verall)						
Туре	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwidt h (MBPS/ GBPS)	Others
Existin g	518	13	120	1	1	1	8	130	0
Added	38	0	10	0	0	0	0	0	0
Total	556	13	130	1	1	1	8	130	0
4.3.2 – Ban	dwidth avail	able of inte	rnet connec	tion in the l	nstitution (Le	eased line)			
				130 MB	PS/ GBPS				
4 3 3 – Faci	lity for e-cor	ntent							
	e of the e-c		elopment fa	cility	Provide t		ne videos a cording fac	nd media ce ility	ntre and
	Tele	epresenc	e Lab		h		-	x60XL20p	iMI
	Tele	epresenc	e Lab		<u>https://</u>	www.you	tube.com <u>eos</u>	/c/TocHKc	chi/vi
	onanco of	Compus Ir	fractructu						
		•			acilities and	academic	support fac	vilities exclu	dina sala
.4 – Mainto	enditure inci					labadenno	Support lac		ang sala
4.4.1 – Expe	enditure incu during the y	cai	benditure incurred on Assigned budget on Expenditure in tenance of academic physical facilities maintenance of academic facilities					ⁱ physical	
4.4.1 – Expe component, Assigne		n Exp		academic	physic			facilites	S
4.4.1 – Expe component, Assigne	during the y ed Budget o	n Exp	tenance of	academic s	priysic	124		facilites	

This estimate is submitted for the approval of the department HOD and Principal. Thereafter sent to the Management for final approval and the amount is settled with the company after servicing. Certain other equipments are under regular AMC. Library: Book Purchase Procedure: Librarian collects the list of books required by each department through the HODs during the beginning of each semester and submits it for the approval of the Principal. On approval, at least 3 quotations are invited from leading book suppliers and librarian prepares a comparative statement duly signed by Librarian and Principal is sent to the management for approval. For any immediate requirement of the books and journals in any department, the librarian is authorized to do the same with the sanction of HODs and Principal. Maintenance of books: The damaged books are maintained by binding at the end of each semester. Stock Verification: Annual stock verification is done by an external auditor and report is presented before the Library Advisory Committee, weeding out of missing books will be done after the approval by Principal on the recommendation of the said Committee. Sports Complex: The Department of Physical Education provides facilities for maintaining physical fitness and well-being of students. Regular maintenance is done to the non perishable infrastructure like, cutting and trimming the grass on the ground, cleaning of the indoor stadium, painting of the steel structures etc. Perishable items like, balls, bats and guards are purchased every year by inviting 3 quotations and a comparative statement is submitted to the Principal who scrutinizes and transmits it to the Management Purchase Committee for final disposal . Stock and an issue registers are maintained in the department, perishables are written off after due stock verification by internal auditor. Awards, Trophies and Certificates are issued to the individuals teams after the completion of the events and published in the annual college magazine. COMPUTER MAINTENANCE The computer maintenance section provides facilities for maintaining and repairing computers. According to the requirement of each department, quotations are sought from computer vendors, quotations with the lowest price and after sale service are accepted. Most vendors offer warranties and provide warranty assistance to their devices. There is no outsourcing of AMC for computers in our college. The maintenance of computers and related components without warranty assistance is done in-house. Regular computer maintenance for each department is done by maintenance section. A stock register is maintained for laptops, desktops and related accessories by System Administrator and Break-down Register is maintained department-wise. Classrooms: Due care is given for, Proper upkeep of the building, lawns and surroundings, furniture repairs, Electrical and sanitary fittings. road, water tank and other services like security and safety requirements.

http://www.tistcochin.edu.in

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	TIST EXCELLENCE SCHOLARSHIP	88	3818500				
Financial Support from Other Sources							
a) National	SC /ST/ OEC STUDENTS E- GRANTZ/AICTE	143	8873250				
b)International	nil	Nill	Nill				

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved		
GDPI Training	05/08/2019	380	Insight Job Guru		
Carrier Counselling	15/02/2020	60	Educational Entrepreneur		
Induction Program	22/07/2019	317	TIST		
Language Lab	01/08/2019	317	TIST		
Persnal counselling Mentoring	01/08/2019	1337	TIST		
Remedial Training	25/09/2019	282	TIST		
Aptitude Training	28/08/2019	280	Konfidence		
Soft Skill training	02/08/2019	280	Insight Job Guru		
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed			
2019	CAT coaching by IMS Training institute	56	56	2	40			
2019	career counselling	0	150	0	48			
	<u>View File</u>							

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
8	8	14

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

	On campus		Off campus				
NameofNumber oforganizationsstudentsvisitedparticipated		Number of stduents placed	Nameof Number of organizations students visited participated		Number of stduents placed		
23 320		278	14	200	44		
View File							

Year Number of students enrolling into higher education		Programme graduated from		Depratment graduated from		me of ion joined	Name of programme admitted to
2019	1	B.TECH	CI	IVIL	(CUSAT	M.TECH
2019	1	B.TECH	CI	IVIL		SCMS	MTECH
2019	1	B.TECH	CI	IVIL		VISWA APEEDAM	MTECH
2019	2	B.TECH	CI	IVIL	VERSI	KIN UNI TY,AUST ALIA	MS
2019	2	B.TECH	CI	IVIL	OF AUST	VERSITY SOUTH RALIA, TRALIA	MS
2019	1	B.TECH	C	CSE	UNIVI	REVA ERSITY, GALORE	MS
2019	1	B.TECH	0	CSE		SRM	MTECH
2019	2	B.TECH		SF	CUSAT		MTECH
2019	2	B.TECH	EEE			TOCH	M.TECH
2019	1	B.TECH EEE		SEE		RSET	MTECH
NET/SET/SLE	T/GATE/GMAT/CAT/	'GRE/TOFEL/Civil				t Services) ts selected/ q	qualifying
	Any Other					3	. , , ,
	CAT					1	
		View	w File				
4 – Sports and	d cultural activities / c	ompetitions organi	sed at the	institution	n level d	uring the yea	r
A	ctivity	Le	vel			Number of Pa	articipants
1	Mudra	Insti	itution			13	30
1	Advay	Inter	-Colleg	e		19	94
Colle	ege Sports	Inst	itution			15	50
		View	<u>w File</u>				
- Student Pa	rticipation and Act	ivities					
	f awards/medals for c team event should be	• •	nance in s	ports/cult	ural activ	vities at natio	nal/internatio
Year		ernaional awar	ber of ds for orts	Number awards Cultura	for	Student ID number	Name of t student

5.3.2 – Activity of Student Council & amp; representation of students on academic & amp; 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: 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 program 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 : Used Book Circulation 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 shows 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 smoking 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 programs. 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.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

402

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

0

5.4.4 - Meetings/activities organized by Alumni Association :

Total four Alumni meet conducted in 2019-2020 Academic Year Department of

Electrical and Electronics Engineering organized Alumni meet on 01.02.2020. Department of Electronics and Computer Science Engineering organized Alumni meet on 14.02.2020. Department of Mechanics Engineering conducted alumini Meet on 19.02.2020

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 participate 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 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)?

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details			
Industry Interaction / Collaboration	? The department holds MoUs with IT organizations and other institutes for imparting industry standard seminars, hands-on trainings industrial visits. 1. Infosys Technologies Ltd. 2.ICT			

	Academy of Kerala (ICTAK) 3.Techno Lodge, Kakkoor, Piravom (The first rural IT park in Kerala) 4.Red Hat Academy 5.Oracle Academy 6.VSB Technical University, Ostrava, Czech Republic 7.Additional Skill Acquisition Program (ASAP), Govt. of Kerala (approved ASDC - Skill Development Centre) 8.ICFOSS (International Centre for Free and Open Source Software) 9.C- DAC - FACE Academy 10.KBA (Kerala Blockchain Academy) ? Department of EE holds Mou with the LT Switch Gear ? Department of CE collaboration with Govt. of Kerala for Rebuild Kerala Scheme.
Library, ICT and Physical Infrastructure / Instrumentation	<pre>? Training Programs conducted 1. IEEE ASPP POP: How to access and Use 2.EBSCO Managemnt Collection Lite:usage and Access ? E-Books and e-journals made accessible to all students and Faculty in the present COVID-19 pandemic situation ? Tele - Kerala State IT Infrastructure Ltd sponsored Hi-tech lab worth Rs. 17,22,718.50, which can be utilized for virtual classrooms and interactive webinars.</pre>
Research and Development	<pre>? Toc H listed as an ASDC of ASAP (Additional Skill Acquisition Programme), an MHRD and Govt. of Kerala Initiative to offer futuristic certification courses in AI and ML and other new generation courses by Google, Amazon, IBM etc. for addressing the skill gap of engineering students. ? AICTE sanctioned an amount of Rs. 4 lakhs as the grant in aid under the scheme Modernization and Removal of Obsolescence (MODROB) for upgrading the Computer Science Lab to Machine Learning Lab. ? An IoT Lab is set up in the department with partial funding from CERD student project fund. ? Existing Programming Labs upgraded with high end systems worth Rs.8,65,080. ? Centre for Engineering Research and Development (CERD)-KTU grant received for student projects .</pre>
Examination and Evaluation	? During the COVID pandemic internal exam were conducted and evaluated by making use of Linways ERP.
Teaching and Learning	? ICT enabled teaching. ? Adopting innovative teaching methodologies such as case study presentation, hands on sessions, quiz, additional lab sessions etc. ? The abstract concepts difficult

	to understand are explained with reference to real world situations wherever applicable. ? Peer learning is practiced for improving the performance of bottom students, making use of the support and coaching of bright students. ? Remedial classes are offered by concerned faculty, to students who have fallen behind the rest of class in academics. ?Additional programs and open ended questions supplied for each laboratory course. For the later part of the Academic session due to the impact of COVID-19 the Institution availed online platforms like ,WebX and Google Meet,recorded video classes and virtual labs to supplement offline classes
Curriculum Development	? Gaps in the curriculum are identified and are rectified by imparting additional lab sessions, conducting bridge courses and by forwarding representation to university. ? By conducting short term training programs and workshops. ? By conducting additional skill acquisition programs under ASAP-ASDC. ? Providing certification courses under the companies with which MoUs are signed.

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

E-governace area	Details
Administration	Student data uploaded in ERP and university portal. Attendance and Study materials accessible to students through online. Login provided to parents and students for monitoring attendance and performance.
Finance and Accounts	Fee remittance only thorough online. College is using Tally for maintaining book of accounts.
Examination	Exam registration and payment of fee and admit card through online. Question paper generation is also done online.
Student Admission and Support	Student application process and selection is doing through online. University enrollment through online.

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 the professional body for	Amount of support
		for which financial support provided	which membership fee is provided	

2020 2019	d	lhar, M Ja Dr.0	George C	53rd CSI Annual Convention (C 2020) held a Kalinga Institute o Industrial Technology, Bhubaneswar Odisha on 18 January, 202 ERASMUS <u>View File</u>	th	CS			
				administrative trair	ning	programmes	organized	l by the	e College for
Year	Year Title of the professional development programme organised for teaching staff		Title of the administrativ training programme organised fo non-teaching staff	r		To Date	Numbe participa (Teach staff)	ants ing	Number of participants (non-teaching staff)
2019	Wom Engin g(W SUM 2k	VIE MIT	Nill	21/07/2019	23	8/07/2019	20	0	Nill
2019	Ethi Value Dr.A Math Presie Too Pub Sch	es by Alex new, dent, c H	Nill	06/11/2019	06	5/11/2019	20	D	Nill
2020	tion Da	roduc n to ta ence	Introdu tion to Data Science	c 21/05/2020	22	2/05/2020	1:	3	6
2020	Xplo Digi Libr	EEE ore ital rary ning	Nill	15/06/2020	15	5/06/2020	9		Nill
2019	tio Manago i: Build nforma	struc on rement n ing I ation lling	Constru tion Managemen in Building nformatio Modelling	t 30/12/2019 I n	04	2/01/2020	15	5	5

	_								-	
2019	Trend Susta e Dev ent i nspor n Eng	erging ds in ainabl velopm In Tra ctatio gineer ng	Nill	23/09	/2019	28/09/2	019	15	Nill	
2020	3 Day FD P,"Advance s in Bio E ngineering " funded by KTU		Nill	. 06/01	/2020	09/01/2	020	20	Nill	
				No file	upload	led.			ł	
6.3.3 – No. of tea Course, Short Te								tion Program	nme, Refresher	
Title of the professional development programme			of teachers ttended	From	From Date		To date		Duration	
Internet Things	Internet of Things		2	2 16/1		9 20/12,		19	5	
Cryptography and Information Theory		1		05/03	05/02/2020		05/02/2020		1	
Infrastruct	cogle Cloud 1 Trastructure Foundation		1	05/03		20 05/03/		20	1	
				View	<u>File</u>					
6.3.4 – Faculty a	nd Staff	f recruitme	ent (no. for	permanent re	ecruitme	nt):				
	•	Teaching					Non-te	eaching		
Perman	nent		Full Ti	Full Time		Permanent		Full Time		
]	No Data I	Entered/No	ot App	licable	111			
6.3.5 – Welfare s	schemes	s for								
Teaching				Non-teaching			Students			
<pre>1.LIC, 2. Provident Fund,3.Maternity Leave with Salary, 4. Additional Increment for additional Qualification, 5. Financial support to attend Conferences/Workshops 6. Free Medical Aid</pre>			e ESI	1.Provident Fund, 2. ESI, 3.Mediclaim,4. Free Medical Aid			1.Students safety Insurance, 2. Students counsellor available for their academic and personal related problems 3.Free Medical Aid.			
6.4 – Financial I	Manage	ement ar	nd Resour	ce Mobilizat	ion					
6.4.1 – Institution	n condu	cts interna	al and exter	nal financial	audits re	gularly (wit	h in 100	words each)		
				e academic n with the						

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.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 and 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 funding agencies		Funds/ Grnats	received in Rs.		Purpose				
CE	RD	32	32000		STUDENT PROJECT				
<u>View File</u>									
6.4.3 – Total corpus f	und generated								
0									
6.5 – Internal Qualit	y Assurance Sy	vstem							
6.5.1 – Whether Acad	demic and Admini	strative Audit (AAA) has been d	lone?					
Audit Type		External		Internal					
	Yes/No	Age	ency	Y	′es/No	Authority			
Academic	Yes	KTU,I	SO,NAAC		Yes	ISO,IQAC			
Administrative	e Yes	ISO, I	TU, NAAC		Yes	ISO			
6.5.2 – Activities and	support from the	Parent – Teacher A	Association (a	at least	three)				
1. Involvement in college cultural/ technical/social programes 2. Providing suggestion for further improvements 3. Support in placement activities									
· ·	6.5.3 - Development programmes for support staff (at least three) 1.Additional Quality enhancement facility provided 2. Stress relief programes conducted								
6.5.4 – Post Accredit	ation initiative(s) (mention at least th	ree)						
1.Re accreditation of NBA for CSE, ECE, ME and CE 2.Introduction of New B.T Program in Robotics and Automation 3.Introduction Online teaching Platfor									
6.5.5 – Internal Quali	ty Assurance Sys	tem Details							
a) Submissi	on of Data for AIS	SHE portal	Yes						
b)P	articipation in NIR	۲.F	No						
с)ISO certification		Yes						
d)NBA c	or any other quality	y audit	Yes						
6.5.6 – Number of Quality Initiatives undertaken during the year									
	Name of quality nitiative by IQAC	Date of conducting IQAC	Duration F	rom	Duration To	Number of participants			
2019	Faculty Exchange	04/11/2019	02/12/	2020	06/12/2020) 1			

	Program					
2020	NBA Re Acc reditation	30/01/2020 29/02/202		29/02/2020	75	
		No file	uploaded.			
RITERION VII – I	NSTITUTIONA	L VALUES AND	BEST PRACTIC	ES		
.1 – Institutional V	alues and Socia	I Responsibilitie	s			
7.1.1 – Gender Equit <u>y</u> ear)	y (Number of geno	der equity promotic	on programmes orga	nized by the institu	tion during the	
Title of the programme	Period fro	m Peric	od To	Number of Participants		
			F	emale	Male	
Computer Training for Housewives	01/07/2	019 15/0	7/2019	17	Nill	
Workshop on Women Rise Together " WIN "		019 24/1	0/2019	57	Nill	
Workshop for women entrepreneurs by WING - Womes Rise Together, an initiative by the DPIIT and Start-up India	n	020 07/0	2/2020	46	Nill	
WiES-Women i Engineering Summit 2019	n 21/07/2	019 23/0	7/2019	130	Nill	
Women Empowerment an Enterprenurshi Guidance		020 07/0	2/2020	50	Nill	
Improving Mental health for Women at Amballoor Panchayat	18/02/2	020 18/0	2/2020	54	Nill	
7.1.2 – Environmenta	l Consciousness	and Sustainability/	Alternate Energy init	iatives such as:		
Percent	age of power requ	irement of the Univ	versity met by the re	newable energy sc	ources	
	Harvesting 4	.Water Treatm	ewable energy 2 ent plant 5.La 6.Kichen garde	beling trees		
7.1.3 – Differently abl	ed (Divyangjan) fi	riendliness				
Item facilities Yes/No Number of						
Physical f	acilities	3	Yes	Nill		
Provision	for 1:5t				i11	

1	Ramp/Rails		:	les		Nill				
1	Rest Rooms		2	Yes		Nill				
Scribes	for examination	ation	2	Zes		Nill				
.1.4 – Inclusion and Situatedness										
Year	advantages and disadva ntages	initiatives to address locational advantages and disadva initiative taken to engage w and contribute		Duration	Name of initiative	Issues addressed	Number of participating students and staff			
2019	3	1	15/06/2 019	1	Interac tion with Students at Bhavans Munshi Vi dyalayam Thiruvank ulam	Role of AI and Im portance	62			
2020	3	1	27/01/2 020	1	Interac tion with Students at St Pauls Hig hersecond ary School , Veliyanad	knowledge in Arduino	43			
2020	3	1	29/01/2 020	2	Interac tion with Students at St George High School Arakunnam	Coding Session for School Students	35			
2020	3	1	26/05/2 020	1	Develop an Android a pplicatio n Named " Nattupedi ka- A complete Shopping Solution for Mulan	rush for	8			

				thuruthy Panchayat			
		View	<u>/ File</u>	h			
L 7.1.5 – Human Values and Pr	ofessiona	al Ethics Code of cc	onduct (handboc	oks) for variou	us stakeholders		
Title		Date of pu	ublication	Follo	Follow up(max 100 words)		
Life skills for Engineers	pr promoti	ion of universal Valu		and Hu rel today confl the obliga on dire stud improv judg o decisi perfo the fa a Acade that t be i school the m Sylla val Pr engi engi	cofessional Ethics man Values" is very evant subject of y's environment of icts and stress in profession, with ations to be met by e perso in many ections. A format dy will certainly ye one's ability ad gement and refine ne's behviour, ons, and actions in orming the duty to amily, organization nd to society. emicians even feel this subject should ntroduced in high level, in place of oral instructions. bus includes Human ues, Engineering ethics and cofessionalism, neering as social sperimentation, ponsibilities and ts, global ethical issues		
Activity		ration From	Duration		Number of participants		
Improving Mental Health" for women at Ambaloor Panchayat	1	8/02/2020	18/02	/2020	54		
Independence Day	15/08/2019		15/08/2019		55		
World Water Day	22/03/2020		22/03/2020		100		
Womens Day	0	8/03/2020	08/03/2020		100		
ENCON Fest 2020	2	8/01/2020	29/01	/2020	120		
World Environmental Day	0	5/06/2019	05/06	/2019	150		
		View	<u>r File</u>				

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

1.Celebration and Save water campaign on world water day 2. Celebration and tree plantation on Environmental day 3.Plastic Free campus 4.Rainwater Harvesting 5.Paperless office 6.ENCON Fest 2020 bearing the theme "Save Water, Save Life" to emphasize the importance of water for the planet earth.

7.2 – Best Practices

7.2.1 - Describe at least two institutional best practices

BEST PRACTICE: 1 1. Title of the Practice: Neighborhood Society Connect: Phase II 2. The Objectives of the Practice: To ensure in all their social, economical, occupational and ethical needs of all especially the under privileged marginalized people, with focus on the young and old. 3. The Context : It is imperative to minimize the gap between the institution and its immediate neighbours. The best way to achieve it is by extending technical, moral, ethical, economical, occupational, environmental and anything that can ensure comradeship and trust 4. The Practice: The focus is on 1. Empowering Women 2. Stopping the spread of communicable deceases 3. Energy conservation 4. Portable Water 5. Safety and Health at work place 6. Rebuild Kerala Initiative(RKI) 7. Survey and rehabilitation of street vendors 8. Technical Outreach sessions Initiatives 9. Social Outreach 5. Evidence of Success: Empowering Women: Session conducted on" Improving Mental Health" for women at Amballoor Panchayat benefitting 30 participants. WiES Women in Engineering Summit 2019 was held in TIST which had gathered students from across various engineering colleges in Kerala. The summit was a 3 day-long program with workshops that spread knowledge among the delegates with various fun-oriented activities and technical rounds etc House Wives' Computer Training Program: Department of CSE in association with CSI and NSS Unit conducted Computer Training program from July 1 to July 15, 2019. The program received overwhelming response as in the past years. 10 housewives from the neighborhood were issued Certificates and all of them are now employed/ self employed. WING-Women Rise Together- conducted 2 day workshop in association with DPIIT and Startup India promoting women entrepreneurs. Stopping the spread of communicable deceases: The College in collaboration with Kerala Startup Mission IEDC donated Automatic Sanitizer with sensor at the entrance of Mulanthuruthy block Panchayath office in June 2020. To meet the pandemic challenge a telephonic counseling started with effect from 28th March 2020 onwards with a team of 5 qualified counselors through telephonic counseling which evoked good response. GRABY is a contactless brass key to mitigate the spread of COVID-19, which is made entirely from a solid piece of brass which is inherently antimicrobial, that can reduce disease causing organisms by 58. Energy conservation: Encon Club Activities 2020: EEE department hosted the activation of ENCON club for the year 2020 on 28th January 2020. Dr. P. Shaiju (Centre for Science in Society, CUSAT) inaugurated and Mr. Kabeer B. Haroon (President -Operations, GJ Ecopower Pvt. Ltd) gave a talk on "Save Water, Save Life". On 28th and 29th January 2020 ENCON Club in association with BPLC Kochi, conducted ENCON Fest 2020 bearing the theme "Save Water, Save Life" Portable Water: Sampoorna Jalasuraksha Mission: Civil Engineering Department provide Technical assistance to Kerala Government's Sampoorna Jalaparishodhana "Complete Water Safety Mission". Water samples were collected from different sources and tested. The project promoted water testing A permanent water testing unit is functioning under TIST R D. Safety and Health at work place Participation under Pradhan Mantri Awas Yojana (PMAY): Project report submitted for working women's Hostel with day care facility at mulanthuruthy. The Rebuild Kerala Initiative(RKI): To rebuild the State after the flood of 2018, Civil Engineering Department collaborated with the Kerala Govt for achieving resilient recovery and development pathway for a NavaKeralam by conducting survey and soil investigation. Rehabilitation of Street Vendors at Piravom Municipality: To develop Piravom Municipality as a street vendor free zone,

Civil Engineering Department carried out road survey at Piravom town. Technical Outreach Sessions and Initiatives: Technical Social Outreach sessions as part of Kutty Coders Initiative was taken up by CSE Dept. at St. George's High School Arakkunnam conducting Coding Sessions by students of CSE . Outreach Sessions on Technological Advancements: With a view to promote engineering education sessions were conducted Introduction to Robotics, "Introduction to Arduino using Python" and "Introduction to Android Programming" Technical social outreach initiative for sustainable development Artificial Intelligence - Exploring the Buzz Word" and AI Robotics Club formed to learn Motivating Budding Young Minds: As part of Social Outreach Program, Dept of CSE, conducted a session on "Career Guidance and Entrepreneurship" at St. Stephens Higher Secondary School, Kothamangalam, for 2 students Social Outreach: Indian Road Safety Campaign (IRSC) Safety and Fire Dept created a platform and conducted Road Safety shows 6. Problems Encountered: Due to the Pandemic Covid-19, the most of the programs chalked out for 2019-20 could not be completed satisfactorily Morbid psychological condition of community at large responded partially to the programs promoted. BEST PRACTICE II 1. Title of the Practice : Employment Enhancement Program The Institute has evolved futuristic training programs designed and executed to cater to diverse needs and demands of students. 2. Objectives of the Practice 18. Available manpower resources to be molded for industry readiness. 2. Make available platform for experiential learning 3. Inculcate awareness about latest technologies 4.8To Provide adequate placement training and opportunities 5. Enhancing on the job training to overcome limited curricular exposure and Research 3. The Context It is essential to maintain proper balance between employability skill and academic skills. If we take for example computer science skills are in high demand by employers. But the dominant focus of student learning ought to be on specialist subject knowledge. In the case of business studies, the high caliber of students must be in conjunction with academic rigor and the graduate's employability. 4. The Practice ISHRAE Job Junction: ISHRAE chapter of TIST enables the students of Mechanical Engineering, to get enrolled in Job Junction to find placements after their degree course. Student Chapter of ASME promotes collaboration, knowledge-sharing, career-enrichment, and skills development across all engineering disciplines and also , develops solutions to benefit lives and livelihoods. Kerala Blockchain Academy Innovation Club (KBAIC) provided opportunities to acquainting students with latest advancements in building their carrier in the disruptive world of blockchain. TIST is a proud member of KBAIC. TIST is also enrolled as CSI student chapter and actively participating in diverse programs Most of the students of ECE EEE are members of IEEE. They conducted various workshops, international conferences, various fun oriented activities, technical rounds and publications. The IEEE student branch of TIST was established in the year 2006. Majority of the students of ECE EEE are members of IEEE. Right from first year onwards industrial training imparted including cochin shipyards, TELK, KMRL, HMT, VOLVO, Keltron, OEN connectors etc. all students avail this facility during the period of the UG/PG Programs. The telepresence lab provides audio-video support, touch screen television, speaker track camera, mics, and speakers. It's can be utilized for virtual classrooms, interactive webinars, and global delivery of content To avail experiential learning Students are provided with ample opportunities to participate in consultancy, Rebuild kerla initiatives, Sampoorna Jalasureksha, survey for Rehabilitation of street vendors , Additional experiments are given in the lab Also provide content beyond prescribed syllabus. Konfident, insight jobguru, Time are the knowledge partner of TIST. They are provided training for aptitude, skill, communication skills etc. 5. EVIDENCE OF SUCCESS Team TRIDENT from Toc H Institute of Science and Technology was shortlisted for American society of Mechanical Engineering, HPVC competition as part e-fest 2020, which is an international fest. This year e-fest for Asia is going to be held at Marvadi University Rajkot Gujarat on late February. Delta Racing is a club

formed by eight students from the Department of Mechanical Engineering of Toc H Institute of Science and Technology, Arakkunnam, as a part of the ASME student chapter. These students aims to revolutionize the fuel-less transportation sector, by designing a human powered vehicle that would replace the common commuting methods. "Mothership" is the first project undertaken by the Delta Racing team to participate in the ASME Human Powered Vehicle Challenge 2020, HPVC competition as part e-fest 2020 to be held at Marvadi University Rajkot Gujarat. TIST CSI SB has won the prestigious 'Best Accredited Student Branch Award' in Region VII consecutively for the past 7 years towards student excellence and skill development. Also student member Yadev Jayachandran of final year have secured 'Highest Committed Student Branch Activist Award'. Also Student of CSE department secured Inapp national student project award The Department of Civil Engineering is happy to be a part of Sampoorna Jalaparishodhana by providing Technical assistance to Kerala Government's prestigious project "Complete Water Safety Mission" at Amballoor Panchayath. REBUILD KERALA: Department of Civil Engineering of TIST is happy to go hand in hand with the Govt of Kerala for achieving the aim to ensure a resilient recovery and development path way for a Nava Keralam. The department has extended the support by conducting survey and soil investigation of various LSGD roads in Ernakulam District. 6.Due to the Pandemic covid 19, the most od the programs and the projects chalked out for 2019-20 could not be completed with due satisfaction.

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

https://tistcochin.edu.in/wp-content/uploads/2021/08/Best-Practice-2019-20.pdf

7.3 – Institutional Distinctiveness

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

1. Computer Society of India (CSI) TIST CSI SB has won the prestigious 'Best Accredited Student Branch Award' in Region VII consecutively for the past 7 years (2011-'12, 2012-'13, 2013-'14, 2014-'15, 2015-'16, 2016-'17 and 2017-'19) for its distinguished contributions towards student excellence and skill development. Our student members have secured 'Highest Committed Student Branch Activist Award' in 2013 (Jibin Jose), 2014 (Anoop K Nayak), 2016 (SiddharthPrajosh) and 2019 (Yadev Jayachandran). Asst. Prof.Elsaba Jacob, TIST CSI, SBC, has also won the 'Longest Continuous SBC Award' in 2014, 2016, 2017 and in 2019 for her significant contributions to the SB activities. 2. Proposal imitated for setting up tele presents lab sponsored by, kerala state IT infrastructure limited .: Tele presence network is a project linking all the engineering colleges in Kerala with the IT parks. Providing learning platform connecting 150 high tech class room to deliver skills training to around 50,000 students per year. 3. Advanced skill devilment centre established under ASAP Eleven students from the department of Computer science and engineering successfully completed Google Cloud Ace Program through Advanced Skill Development Centre (ASDC) launched by Govt. of Kerala under ASAP in 2020. Earthquake Management 01-01-2020 1 Artificial Intelligence Machine Learning -Term 2: Deep Learning by ASAP IBM Sep-19 24 Google Cloud by Google ASAP Sep-19 18 Diploma Program in Cyber Security Forensics by C-DAC Oct-19 32 Maps Location Technology by Here Maps ASAP Mar-20 27 Coding Skills by ASAP ICTAK May-20 23 4. DSIR recognised Scientific and industrial research organization (SIRO)since 2012 Registered with the Department of Scientific and Industrial Research (DSIR) and approved as Scientific and Industrial Research Organization (SIRO) since 2012. The recognition renewed for the period of 2019-21. 5. KTU approved research centre Dr. Reshmi P S, Dr.Njanasheela , Dr.Perumal Shankar, Dr. Sanjay Gopinath, student who (details from smitha miss) 6. International

Colloboration Toc H MBA became the First Institute in Kerala to partner with Veleuciliste U Pozegi, Croatia under the prestigious ERASMUS Mobility programme. Erasmus stands for European Community Action Scheme for the Mobility of University Students, established in 1987. Erasmus is a programme run by the European Union and is managed by agencies in each EU member country, as well as by the Education, Audio-visual and Culture Executive Agency (EACEA) of the EU. The focus of this programme is on four different fields - education, training, youth and sport to improve skills and increase employability. To formalise the partnership, Memorandum of Understanding was signed between Veleuciliste U Pozegi, Croatia and Toc H Institute of Science Technology under the prestigious ERASMUS exchange Programme in 2018. This MoU offers exchange of faculty and students between these two institutions. Under this agreement, so far two faculty has represented India for the Erasmus Teaching Mobility for Academic Staff. The competition for TIST (Management studies department) students for the participation in the Erasmus KA1-Learning Mobility of Individuals (Students) between Polytechnic in Pozega (Croatia) and Toc H (Management studies department) is under processing.

Provide the weblink of the institution

https://tistcochin.edu.in/wpcontent/uploads/2021/08/Distinctiveness-2019-20.pdf

8. Future Plans of Actions for Next Academic Year

1. New premises and building complex for conducting management studies and other allied new courses: We offer the two-year full-time Master of Business Administration (MBA) Program with specializations in Finance, Marketing, Human Resource, Operations and Information Systems. The new National Education Policy envisages institutional autonomy and a lot of freedom to enterprising players. Diversified courses at undergraduate level ranging from commerce, accountancy, computer application, new generation technologies amp managerial skills, Artificial Intelligence amp Machine Learning, finance, logistics, arts and myriads of such courses, can offer enhanced job and self-employment opportunities. Hence a masterplan is under active consideration to construct suitable premises to house all such facilities. 2. Inclusion under 2(f) category of UGC: Compiled with all instructions the proposal with all mandatory documents to the concern undersecretary, UGC, NewDelhi 3. New B.Tech program in Electrical and Computer Engineering. Proposal initiated with AICTE/KTU for the new Program. The technology that improves lives and shapes society is more powerful and changing more rapidly than any other time in human history. The world of the future- the very near future will have billions of devices connected on the Internet of Things and working together using the latest algorithms for artificial intelligence and Machine learning. Considering the diverse range of job requirements in the field of Electrical Engineering, it is necessary that an Electrical Engineer should acquire additional skills in the areas like programming, automation, machine learning etc. to name a few. Automation is the buzz word in the current industrial scenario. So in the areas of design, research and development, the knowledge of Electrical and Computer Engineering will give the job seekers an edge over other competitors. 4. Increase intake in B.Tech Computer science from the present 60 to 90: As the department enhanced placement opportunities ranging upto in all previous outgoing batches. Hence proposal submitted to concern authorities for the increase of intake. 5. Submitting proposals for funded major projects: R and D wing of the institute has an action plan for the promotion of major funded projects, by providing information, statistical data and allied resources to the stake holders 6. Promotion of Social and Technical outreaches. In order to meet the covid -19 pandemic challenge, contactless counselling is scheduled to be organised with qualified counsellors more avenues to reach out the needy are on the anvil. Promotion of engineering education in all emerging areas will be promoted amongst young aspirants.