



# FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Annual Report 2019-2020

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## Governance and Administration

### The Management Team of FISAT

Ms. Anitha P, Chairman-Governing Body  
Mr. Aneesh Kumar R, President  
Mr. Sachin Jacob Paul, Treasurer  
Mr. Pappachan Thekkekkara, Vice-President  
Mr. Jojo K J, Associate Secretary  
Mr. Ajith Kumar KK, Associate Treasurer  
Mr. Mohanachandran K R, Managing Committee Member  
Mr. Paul Mundadan, Managing Committee Member  
Mr. Rajanarayanan V M, Managing Committee Member  
Mr. Alex T Paikada, Managing Committee Member  
Mr. Abdul Nazar M P, Managing Committee Member  
Mr. George C Chacko, Managing Committee Member

### Academic and Administrative Heads

Dr. George Issac, Principal  
Dr. C. Sheela, Vice-Principal  
Dr. Sunny Kuriakose, Dean (Academic & Administration)  
Dr. Joshua A J, Director-in-charge, MBA Dept

## Academic Affairs

### Programs Offered

#### B Tech

Program	Sanctioned Intake
Computer Science And Engineering	120
Electronics And Communication Engineering	120
Civil Engineering	120
Mechanical Engineering	120
Electrical And Electronics Engineering	60
Electronics And Instrumentation Engineering	60

#### M Tech

Programs	Sanctioned Intake
Communication Engineering	24
Computer Science & Information Systems	24
Power Electronics And Power Systems	24
Structural Engineering And Construction Management	24
VLSI & Embedded System	24
Computer Integrated Manufacturing	18
MBA - Master Of Business Administration	120
MCA - Master Of Computer Applications (3 year)Lateral Entry to 2 <sup>nd</sup> year direct	60
MCA - Master Of Computer Applications (2 year)2 <sup>nd</sup> year direct	60

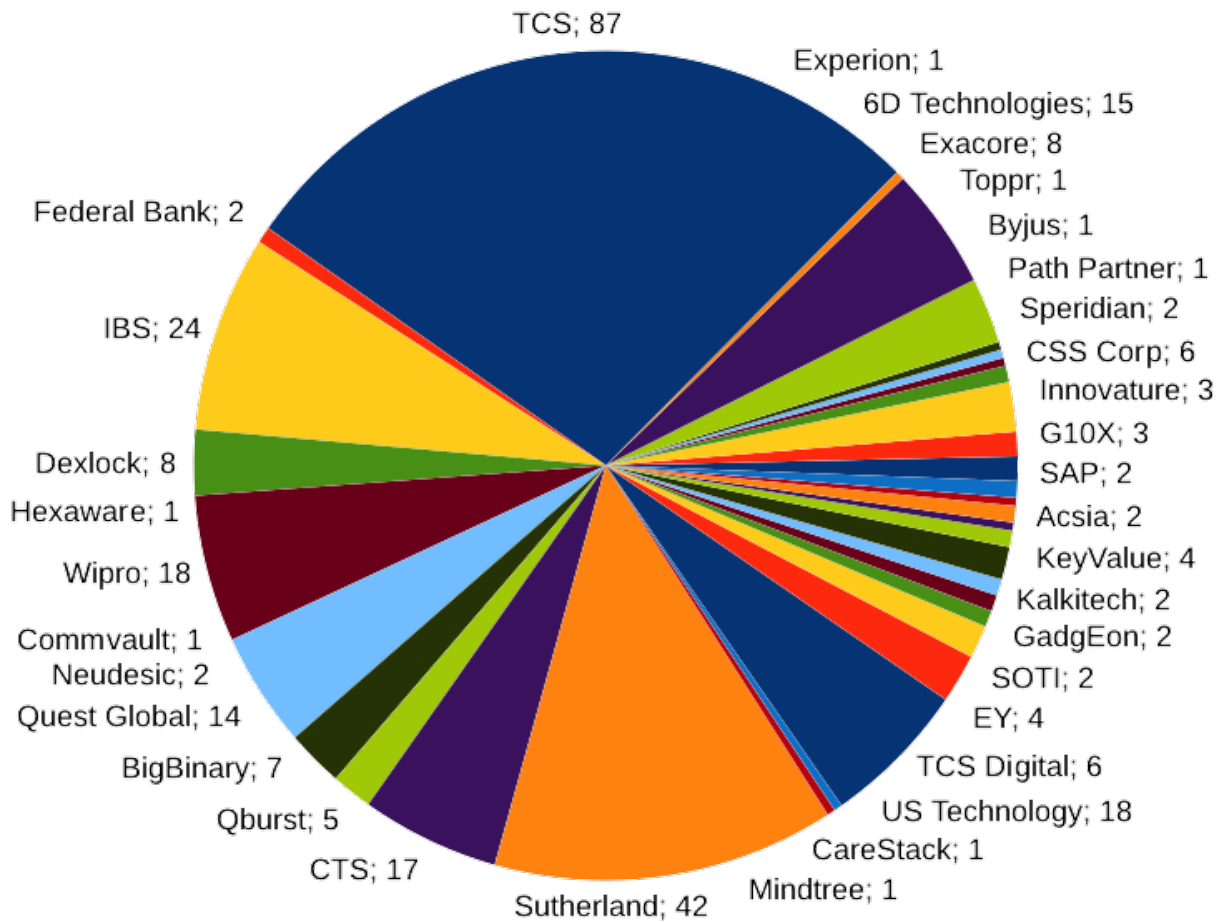
#### PhD

Computer Science and Engineering
Electronics and Communication Engineering
Mechanical Engineering

## Performance in University Results

Sl. No.	Dept.	No. of Students Registered for Final Semester Examination	No. of Students Passed Final Semester Examination	Pass Percentage	No. of Students Eligible for Degree	Percentage Students Eligible for Degree	Percentage Students Eligible for Degree as on 30 <sup>th</sup> June 2021
1	CE	119	118	99.16	77	64.71	85.59
2	CS	120	119	99.167	90	74.38	90
3	EE	56	55	98.21	27	48.21	71.42
4	EC	118	116	98.30	70	59.32	76.21
5	EI	38	37	97.37	17	44.73	79
6	ME	121	118	97.5	89	73.55	90.9
7	MBA	119	119	100	92	77.31	97.47
8	MCA	123	123	100	102	82.92	96.74
9	CE/SECM	24	24	100	24	100	100
10	CS/CSIS	5	5	100	5	100	100
11	EE/PEPS	6	6	100	6	100	100
12	EC/COEN	2	2	100	2	100	100
13	EC/VLSI &ES	1	1	100	1	100	100
14	ME/CIM	2	2	100	2	100	100

## Placement Statistics



Branch	Number of offers	Number of students placed
BTech CE	17	17
BTech CS	150	87
BTech EC	71	45
BTech EE	25	18
BTech EI	8	7
BTech ME	29	24
MCA	62	53
MTech SECM	1	1
MBA	87	68
<b>Total</b>	<b>450</b>	<b>320</b>

## **Feedback Analysis**

### **Student**

**Q1:** Are the objectives of all the courses clearly defined?

**Q2:** Is the syllabus appropriate for achieving the program's learning outcomes and competencies?

**Q3:** Is the syllabus updated to reflect new advances in the field?

**Q4:** Is the library stocked with required learning resources, such as suggested textbooks and reference books?

**Q5:** Are the electives related to core subject and suitable for specializing in a specific field?

**Q6:** Do the laboratory activities help in the comprehension of concepts?

**Q7:** Does the programme encourage self-learning and higher study?

**Q8:** How well is the curriculum structured to assist students understand and provide solutions to the real-world issues?

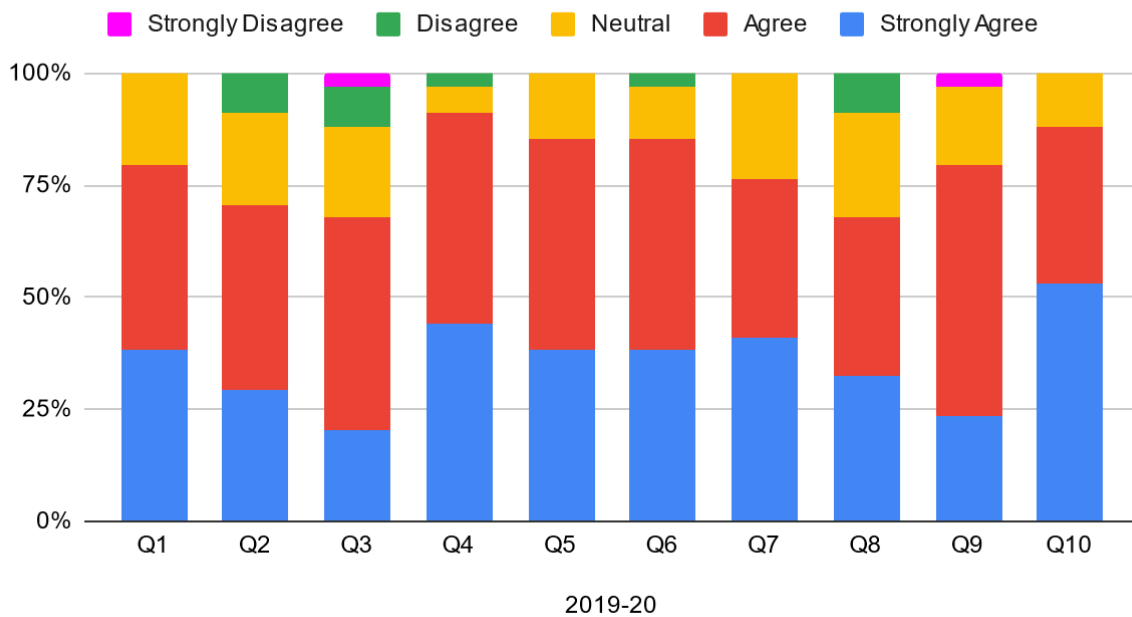
**Q9:** How effective has the programme been in instilling confidence in you to face competitive exams and interviews?

**Q10:** Does the curriculum introduce students to environmental and sustainability issues, professional ethics, etc?.

Scale provided :

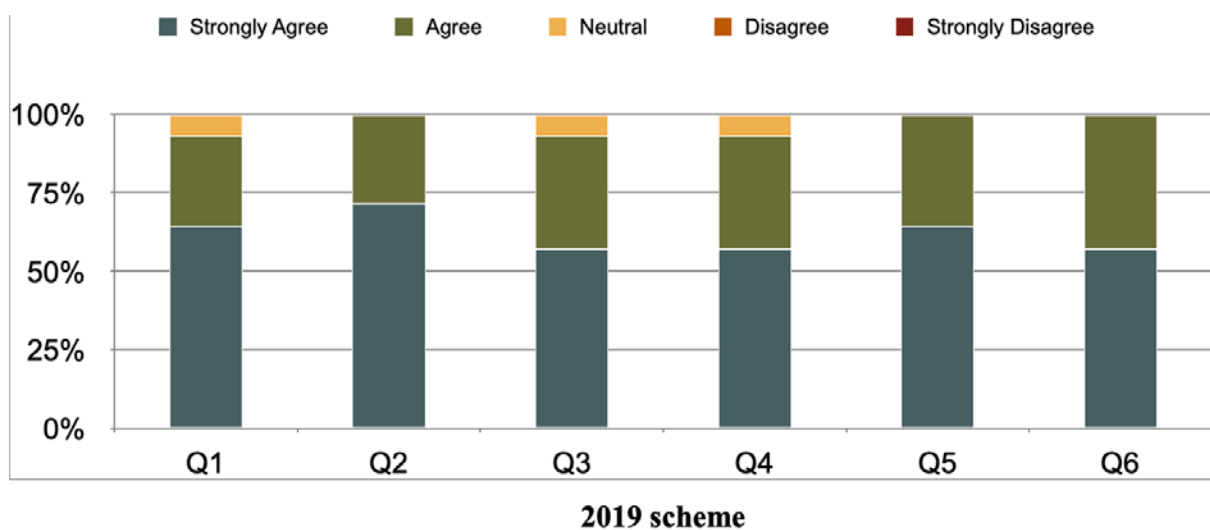
1- Strongly Disagree, 2- Disagree, 3-Neutral, 4- Agree, 5- Strongly Agree

## EEE - STUDENT CURRICULUM FEEDBACK 2019-20



### Faculty

- 1.The curriculum of the program is well designed and promotes learning experience of the students.
2. Course objectives and outcomes of the course are well defined and clear to faculties and students.
- 3.The course is relevant to current industry trend.
- 4.The course curriculum has a good balance between theory and application.
5. The Curriculum recommends relevant books and references in the field.
6. Teaching the course increased my knowledge and expertise in the subject area.





## Alumni

### <Question>

**Q 1:** Ability to apply fundamental subject knowledge to new problems.

**Q 2:** Ability to analyse complex engineering problems.

**Q 3:** Ability to design creative, original and cost effective solutions for engineering problems.

**Q 4:** Ability to innovate solutions for complex engineering problems.

**Q 5:** Ability to use computers and software as an analytical tool.

**Q 6:** Ability to provide engineering solutions to societal problems.

**Q 7:** Sensitivity to environment and sustainability in engineering practice.

**Q 8:** Ability to cope with complex moral and ethical issues in professional life.

**Q 9:** Ability to work in a team and as a leader.

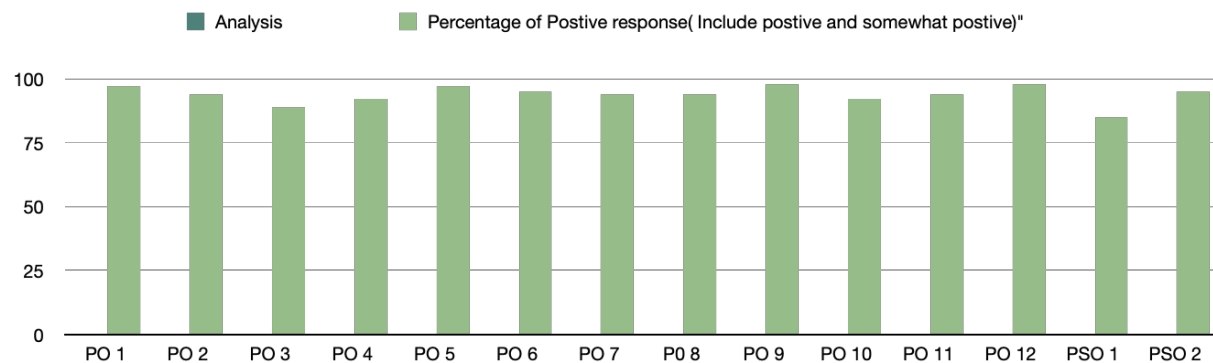
**Q 10:** Ability to manage projects in multidisciplinary environments.

**Q 11:** Ability to write well and effectively communicate orally.

**Q 12:** Ability to participate in career advancement programs.

**Q 13:** The ability to implement, analyze and develop algorithms based on computational theory in the fields computer science for productive and effective design of computer-based systems.

**Q 14:** The ability to apply standard engineering practices for the development and management of software and hardware projects, using open source programming environments.



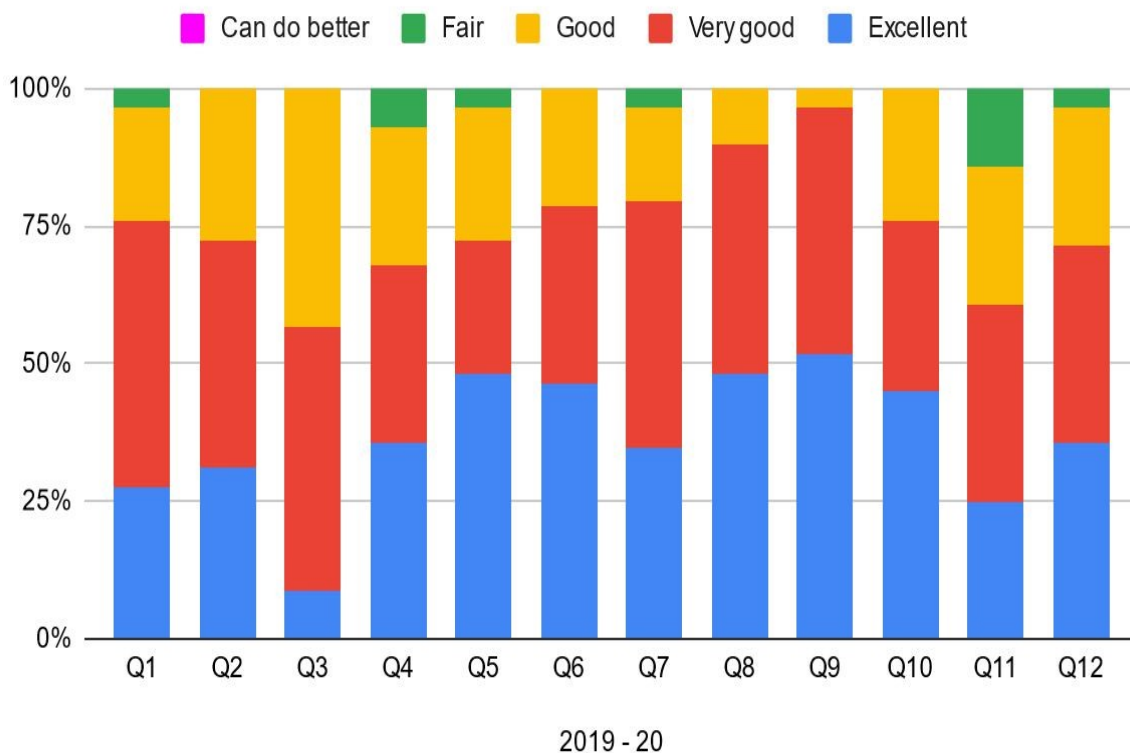
## Employer

### Questions

1. Fundamental knowledge in Science and Mathematics

2. Fundamental knowledge in Engineering
3. Understanding of global engineering standards
4. Ability to analyse and interpret data
5. Ability to design new systems within realistic constraints
6. Ability to identify, formulate and solve technical problems
7. Practice of professional and ethical responsibility
8. Communication and presentation skills
9. Ability to understand the impact of Engineering solutions in various contexts
10. Knowledge of current developments in Engineering field
11. Ability to use modern engineering tools for professional practice
12. Leadership and management skills

## EMPLOYER FEEDBACK ANALYSIS 2019-20



## ACCREDITATIONS

### NBA ACCREDITATION 2020

After successfully obtaining NAAC accreditation with A grade, we focused on NBA accreditation for five B. Tech. Programmes, Computer Science and Engineering, Electronics and Instrumentation Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering. The process required elaborate preparations by the departments to standardise the processes to adhere to 'Outcome Based Education' (OBE), and according to the norms and guidelines specified by the National Board of Accreditation. Department Advisory Committee was formed for enabling the process. Course Assessment Committee was set up to map the Course and Programme Outcomes as required by the NBA. The process involved pre-qualification, registration, submission of Self Assessment Report and mock visits by external experts.

An eleven member Evaluating Team visited the College during February 14 - 16, 2020 and held a thorough evaluation of the infrastructure facilities and documents and held direct interactions with faculty members and students. There was a brief presentation by Principal and interaction with Chairman and Managing Committee members, PTA, Alumni and other stake holders. The NBA accreditation process was effectively coordinated by Dr. Sunny Kuriakose, Dean (Academics and Administration)

The NBA Accreditation was awarded for five programmes, in B. Tech. Computer Science and Engineering, Electronics and Instrumentation Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering. The accreditation is a process which enhances the quality of the Institution and enables us to apply for various funded projects.

## Research Promotion

Acharya - an E-Learning platform developed by Cognitive computing Research Centre (CCRC), FISAT. Unlike traditional E-Learning platforms, Acharya offers users multiple videos for the same topic. The platform also offers multilingual support. The platform also offers a virtual lab where students can experience the lab environment. Currently, the course title "Introduction to Python" is completed. The contents of the course are completely developed by the students of CCRC.

### Books and Chapter publications

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International
Beena B R	-	Developing Professional Competency of Faculty and Students of Civil Engineering to meet Global Standards	Proceedings 2019 Canadian Engineering Education Association (CEEA-ACEG19) Conference	CEEA Annual Conference :Learning to Learn — Preparing Tomorrow's Engineers (2019)	International
Sreelekshmy S	-	Efficient 64-Bit fused binary/decimal arithmetic unit (DBA) Design	Proceedings of WRFER International Conference,2019	Proceedings of WRFER International Conference,2019	International
Jawahar Saud S	-	Air Pollution from an industrial cluster: Risks and responsibilities	Abstract Proceedings, Fifth World Congress on Risk (Development and Resilience)	Fifth World Congress on Risk (Development and Resilience) organized by Society for Risk Analysis (SRA) and Society of Environmental Toxicology and Chemistry (SETAC),	International

				Capetown, South Africa	
Asha Joseph	Mechanical and Durability characteristics of Bacterial Concrete	Mechanical and Durability Characteristics of Bacterial Concrete	Proceedings of SECON'19	SECON'19	National
Sreerath S.	Experimental Investigation on Partial Replacement of Cement with Fly Ash and Glass Powder	Experimental Investigation on Partial Replacement of Cement with Fly Ash and Glass Powder	Proceedings of SECON'19	SECON'19	National
Kavitha P. E.	Experimental Study on Strengthening of Steel Beam Using Carbon Fiber Reinforced Polymer Sheet	Experimental Study on Strengthening of Steel Beam Using Carbon Fiber Reinforced Polymer Sheet	Proceedings of SECON'19	SECON'19	National
S P Akshara	Experimental Investigation on Lightweight Concrete Using EPS Beads and Metakaolin	Experimental Investigation on Lightweight Concrete Using EPS Beads and Metakaolin	Proceedings of SECON'19	SECON'19	National
Abin Thomas C. A.	Experimental Study and Optimisation of Best Performance Self Compacting	Experimental Study and Optimisation of Best Performance Self Compacting Recycled	Proceedings of SECON'19	SECON'19	National

	Recycled Aggregate Concrete	Aggregate Concrete			
Resmi K N	Mechanical and Durability Properties of Microbially Induced Calcite Precipitated Polypropylene Fibre Reinforced Concrete	Mechanical and Durability Properties of Microbially Induced Calcite Precipitated Polypropylene Fibre Reinforced Concrete	Proceedings of SECON'19	SECON'19	National
Reshma Prasad	A Study on Effect of Shear Connectors in the Structural Performance of Steel-Concrete-Steel Sandwich Shear Walls	A Study on Effect of Shear Connectors in the Structural Performance of Steel-Concrete-Steel Sandwich Shear Walls	Proceedings of SECON'19	SECON'19	National
Neeraja Nair	Seismic Analysis of Transmission Tower Line Systems.	Seismic Analysis of Transmission Tower Line Systems	Proceedings of SECON'19	SECON'19	National
Neeraja Nair	Seismic Performance Analysis of Vertically Irregular Structures with Diagrid	Seismic Performance Analysis of Vertically Irregular Structures with Diagrid	Proceedings of SECON'19	SECON'19	National
Kavitha P. E.	Shear Strengthening of RC Deep Beam	Shear Strengthening of RC Deep	Proceedings of SECON'19	SECON'19	National

	Using Steel Plates	Beam Using Steel Plates			
Asha Joseph	Response of Self Centering Steel Moment Resisting Frames Against Cyclic Loading	Response of Self Centering Steel Moment Resisting Frames Against Cyclic Loading	Proceedings of SECON'19	SECON'19	National
S P Akshara	Comparison of Seismic Performance of Knee Braces in Steel Frames with Y Shaped Eccentric Braces	Comparison of Seismic Performance of Knee Braces in Steel Frames with Y Shaped Eccentric Braces	Proceedings of SECON'19	SECON'19	National
Gayathri Krishnakumar	Review of IS 1893-1(2002): Effect of Unreinforced Masonry Infill Walls on Seismic Response of Framed Structures	Review of IS 1893-1(2002): Effect of Unreinforced Masonry Infill Walls on Seismic Response of Framed Structures	Proceedings of SECON'19	SECON'19	National
Reshma Prasad	Effect of Bracings and Shearwalls on Seismic Performance of Buildings Situated on Sloping Region	Effect of Bracings and Shearwalls on Seismic Performance of Buildings Situated on Sloping Region	Proceedings of SECON'19	SECON'19	National
Beena B R	Finite Element	Finite Element Analysis of	Proceedings of SECON'19	SECON'19	National

	Analysis of Hybrid Bonded FRP Strengthen System	Hybrid Bonded FRP Strengthen System			
Asha Joseph	Evaluation of Structural Response of Ground Supported Cylindrical water Tanks to Static and Harmonic Loading	Evaluation of Structural Response of Ground Supported Cylindrical Water Tanks to Static and Harmonic Loading	Proceedings of SECON'19	SECON'19	National
Gayathri Krishnakumar	Cyclic Response of Reduced Beam Section	Cyclic Response of Reduced Beam Section	Proceedings of SECON'19	SECON'19	National
Unni Karthag	Time Optimization of Parallel Dynamic Analysis Using Greedy Algorithm in FEA	Time Optimization of Parallel Dynamic Analysis Using Greedy Algorithm in FEA	Proceedings of SECON'19	SECON'19	National
Asha Joseph	Performance Evaluation of Polyurethane Cement Composite as a Retrofit Against Seismic Loading	Performance Evaluation of Polyurethane Cement Composite as a Retrofit Against Seismic Loading	Proceedings of SECON'19	SECON'19	National
Sreerath S.	Experimental Investigation	Experimental Investigation on Fresh and	Proceedings of SECON'19	SECON'19	National



	n on Fresh and Hardened Properties of Hybrid Fibre-Reinforced Self-Compacting Concrete	Hardened Properties of Hybrid Fibre-Reinforced Self-Compacting Concrete			
Abin Thomas C. A.	Development of SCC Mix Using Jute and Coir as Additives	Development of SCC Mix Using Jute and Coir as Additives	Proceedings of SECON'19	SECON'19	National
Kavitha P. E.	Numerical Analysis of Windowed Steel Tube Embedded in Concrete	Numerical Analysis of Windowed Steel Tube Embedded in Concrete	Proceedings of SECON'19	SECON'19	National
Resmi K N	Experimental Studies on Fly Ash Based Basalt Fibre Reinforced Concrete	Experimental Studies on Fly Ash Based Basalt Fibre Reinforced Concrete	Proceedings of SECON'19	SECON'19	National
Abin Thomas C. A.	Experimental Studies on Brick Powder Replaced Concrete Exposed to Elevated Temperature	Experimental Studies on Brick Powder Replaced Concrete Exposed to Elevated Temperature	Proceedings of SECON'19	SECON'19	National
Jiji Antony	Experimental Investigation on Strength and Durability of Fly Ash	Experimental Investigation on Strength and Durability of Fly Ash and GGBS Based Geopolymer Concrete	Proceedings of SECON'19	SECON'19	National

	and GGBS Based Geopolymer Concrete				
Dr. Kavitha P E	Editor of Proceedings of SECON'20		Proceedings of SECON'19	SECON'19	National
Unni Kartha G	Editor of Proceedings of SECON'21		Proceedings of SECON'19	SECON'19	National
Jiji Antony	Light Weight Foamed Concrete as a Substitute for Bricks in Framed Structure	Light Weight Foamed Concrete as a Substitute for Bricks in Framed Structure	Proceedings of SECON'19	SECON'19	National
Unni Kartha G	-	Studies on the Effect of Fines Content on Liquefaction Resistance Using Shake Table Tests	Proceedings of the Indian Geotechnical Conference 2019	Indian Geotechnical Conference 2019	International
Deepa Mary Mathews	-	Lexicon Based Document Level Sentiment Analysis on the Multilingual Dataset	Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE)	Advanced Computing and Software Engineering (ICACSE)	International
Rabiya Rasheed	-	Design of a New Five Level MLM based Multilevel Inverter	Power and Renewable Energy Conference (IPRECON), IEEE International	Power and Renewable Energy Conference (IPRECON)	International
Dr. Prasad J C	-	Flood Monitoring and Prediction Using Phylogenetic Tree	International Dam Safety Conference - DIP 2019	International Dam Safety Conference - DIP 2019	International

		Generation System based on UPGMA method for Kerala: A prototype Tool for Decision Assistance			
Dr. Anish Mathew K	Sustainable Development – Concept, Meaning and Strategies	-	-	-	-
Dr.K.Sreekumar	Corporate Ownership and Control	-	-	-	-
Dr. Asha Joseph	Editor of Proceedings of SECON'19	-	Proceedings of SECON'19	SECON'19	National
Dr Sona Narayanan	-	Synthesis and Third order non linear optical properties of EDOT chalcogenadiazole copolymers	-	Current Trends in Organica and Computational Chemistry CTROC 2019	National
Dr Rejeesh CR	Fire Retardant Coir MDF boards and their applications	-	-	-	-
Dr.Midhun Paul	-	Industry 4.0 and its effect on sustainability in Smart Factory, Logistics, CPS, IOT	International Conference on Mechanical, Civil, Industrial and Production Engineering	International Conference on Mechanical, Civil, Industrial and Production Engineering	International

Dr. Sunny Kuriakose	-	Image Segmentation using a Fuzzy Roughness Measure	-	-	international
Harish T M	-	Microstructural evolutions in Inconel 718 weldments : A review	Proceedings of the 4th Technological Conference	Kerala Technological Congress KETCON	NATIONAL
Rakhee.R	-	"Non isolated high gain dc-dc converter for PV applications with closed loop control"	Intelligent Computing instrumentation and Control Technologies(ICIC ICT-2019)	Intelligent Computing instrumentation and Control Technologies(ICIC ICT-2019)	International
Aiswarya Raj	-	Counter Forensics : A New PRNU based Method for Image Source Anonymization	Proceedings of the International Conference on Electrical, Computer and Communication Technologies, Coimbatore 2019	International Conference on Electrical, Computer and Communication Technologies, Coimbatore 2019	International
Shidha M V	-	Assessing the impact of Instance Imbalance in the Prediction of Class Labels	Proceedings of 2nd National Conference on Advanced Computing Computing (NCAC-2019)	National Conference on Advanced Computing (NCAC-2019)	National
Dr. Dhanya Alex	Corporate Ownership and Control	-	-	-	-
Prashanth P John	Organisational Behaviour	-	-	-	-
Dr.Arun Kumar M N	-	CloudStore : A framework for developing progressive streaming games	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	International
Pankaj Kumar G	-	Optimization of logistic regression	Natioanal Conference on Machine Learning	Natioanal Conference on Machine Learning	National

		using Elephant herd optimization	and Artificial Intelligence	and Artificial Intelligence	
Pankaj Kumar G	-	Re-Ranking ODI batsman using JJ metric	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	International
Pankaj Kumar G	-	Intelligent Cloud Load Balancing using Elephant Herd Optimization	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	International
Pankaj Kumar G	-	CloudStore : A framework for developing progressive streaming games	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	Third International Conference on Big-Data and Cloud Computing (The ICBDC'19)	International
Pankaj Kumar G	-	Youtube Comment Based Video Ranking System	International Conference on Digital Technologies and Transformation in Academic Libraries	International Conference on Digital Technologies and Transformation in Academic Libraries	International
Pankaj Kumar G	-	Removing Sensitive Private Medias Files From Web Using Block-Chain Technology	National Conference on Blockchain and Smart Contract Technologies (BSCT-2019)	National Conference on Blockchain and Smart Contract Technologies (BSCT-2019)	National
Dr. Paul P Mathai	-	Envisaging the Academic Performance of Students	2019 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)	2019 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)	International
Jestin Joy	-	VIZIYON : Assistive handheld device for	Third International Conference on Computing and Network	Third International Conference on Computing and Network	International

		visually challenged	Communications (CoCoNet'19)	Communications (CoCoNet'19)	
Jestin Joy	-	CLadron: AI assisted device for identifying artificially ripened climacteric fruits	Third International Conference on Computing and Network Communications (CoCoNet'19)	Third International Conference on Computing and Network Communications (CoCoNet'19)	International

Research funds sanctioned and received from various agencies, industries, and other organizations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned (in Lakhs)	Amount received during the year
Students Research Projects (Other than compulsory by the University)	365	The Kerala State Council for Science Technology and Environment	0.2	0
Projects sponsored by the University	90	AMT Metals (Pty) Ltd	0.3	0
Industry sponsored Projects	365	Kerala State Information Technology Infrastructure Limited (KSITIL)	17.72	0
Minor Projects	365	Kerala State Council for Science Technology and Environment (KSCSTE)	0.4	0
Major Projects	365	Kerala State Council for Science Technology and Environment (KSCSTE)	0.2	0

## Publications

Name of the author/s	Department of the teacher	Name of journal	Year of publication
SignQuiz: A Quiz based tool for learning fingerspelled signs in Indian Sign Language using Automatic Sign Language Recognition	Dr. Jestin Joy	Computer Science And Engineering	IEEE Access
Terrain Generation From User Text using Cellular Automata	Dr. Arun kumar M N, Pankaj Kumar G	Computer Science And Engineering	International Journal of Recent Technology and Engineering
Machine Learning Approaches Used For Prediction in Diverse Fields	Dr. Paul P Mathai	Computer Science And Engineering	International Journal of Recent Technology and Engineering
SasyaSneha – An Approach for Plant Leaf Disease Detection	Dr. Paul P Mathai	Computer Science And Engineering	International Journal of Advanced Trends in Computer Science and Engineering
A novel encryption method for medical images using 2D Zaslavski map and DNA cryptography	Siyamol Chirakkarottu	Computer Science And Engineering	Springer SNAS
SiLearn: an intelligent sign vocabulary learning tool	Dr. Jestin Joy	Computer Science And Engineering	Journal of Enabling Technologies
A Five Level Multilevel Topology Utilizing Multicarrier	Rabiya Rasheed	Electrical And Electronics Engineering	International Journal of Power Electronics and Drive System (IJPEDS)

Modulation Technique			
Optimal Gain Selection Strategy in Back EMF Observer for Position Sensorless Operation of BLDC Motors	Surya Susan Alex, Dr. Asha Elizabeth Daniel	Electrical And Electronics Engineering	Arabian Journal for Science and Engineering, Springer
Analysis of Extended State Observer and Active Disturbance Rejection Control in the speed control of DC Motor System	Parvathy R, Muhamed Noufal C	Electrical And Electronics Engineering	Mechatronic Systems and Control, ActaPress.
Analysis of Extended State Observer and Active Disturbance Rejection Control in the speed control of DC Motor System	Parvathy R, Muhamed Noufal C	Electrical And Electronics Engineering	Mechatronic Systems and Control, ActaPress.
Investigating the Biodegradability and Physical Properties of Starch Derived Bioplastic Films Reinforced with Nanosilica	Dr Rejeesh C R	MECHANICAL ENGINEERING	International Journal of Nanoscience
Scheduling an Assembly Job Shop Production System with Multiple Objectives: A Simulation Study	Dr.Midhun Paul	MECHANICAL ENGINEERING	International Journal of Industrial and Systems Engineering
Assessment of microstructure and mechanical properties of	Harish T M	MECHANICAL ENGINEERING	Material Research Express



keyhole plasma arc welded similar butt joint of AISI 304H Austenetic stainless steel			
Keyhole mode of Plasma Arc Welding on Microstructure and Mechanical properties of similar butt welded Incoloy 800H	Harish T M	MECHANICAL ENGINEERING	Arabian journal of science and engineering
Investigation on the Effect of Variation in Cutting Speeds and Angle of Cut During Slant Type Taper Cutting in WEDM of Hastelloy X	Ranjit Joy	MECHANICAL ENGINEERING	Arabian Journal for Science and Engineering
'Foreign Exchange Reserves and Stock Market Prices-A Study in Indian Markets'	Dr. A J Joshua	MASTER OF BUSINES ADMINISTRATION	International Journal of Emerging Technologies and Innovative Research, Vol 5, 2018-19, ISSN 2349-5162
Do regulations and governance quality impact performance of MFIs in India?	Dr. K.P.SaraswathyAmma	MASTER OF BUSINES ADMINISTRATION	DECISION
Analysis of the Structure and Economic Activities of Self Help Groups under Bank Linkage Programme In the State .	Dr. K.P.SaraswathyAmma	MASTER OF BUSINES ADMINISTRATION	International Journal of Research & Review (IJRR), Vol.6,Issue 7
An Empirical Study on the Effect of Resampling	Shidha M V	MASTER OF COMPUTER APPLICATIONS	International Journal of Applied Engineering Research

Techniques in Imbalanced Datasets for Improving Consistency of Classifiers			
Studies Done on The Impact of Lightweight Documentation in Scrum Methodology When Used in Various Software Industries	Dr. Rakhi Venugopal	MASTER OF COMPUTER APPLICATIONS	Journal of Advanced Research in Dynamical & Control Systems
CoGBUS- Center of Gravity Based Under Sampling Strategy for Imbalanced Data Classifications	Shidha M V	MASTER OF COMPUTER APPLICATIONS	International Journal of Recent Technology and Engineering(IJRTE)
Human Annotation and Interpretation of Public Sentiments about Jio Coin marked in Social Networks using Machine Learning Algorithms	Deepa Mary Mathews	MASTER OF COMPUTER APPLICATIONS	Int. J. Advanced Trends in Computer Science and Engineering (IJATCSE),
Development of 1D Shake Table Testing Facility for Liquefaction Studies	Unni Kartha G, Mahesh C	CIVIL ENGINEERING	Journal of Institution of Engineers India, Series A
Effect of Hammer Impact on Wave Propagation Characteristics of Soil: A Laboratory Study	Unni Kartha G.	CIVIL ENGINEERING	International Journal of Geotechnical Earthquake Engineering

Fluid - Structure- Soil Interaction Effect on Dynamic Behaviour of Circular Water Tanks	Asha Joseph	CIVIL ENGINEERING	<i>International Journal of Structural Engineering (Inderscience)</i>
Nitrate Removal from Groundwater Using Crushed Lemon Peel and Activated Charcoal	Jawahar Saud S.	CIVIL ENGINEERING	International Journal of Scientific Research and Reviews (IJSRR)
Waste Water Treatment and Generation of Electricity Using Microbial Fuel Cells	Jawahar Saud S	CIVIL ENGINEERING	International Journal of Scientific Research and Reviews (IJSRR)

## CHAPTER 4

### Faculty Enrichment

#### Faculty development programmes organised

Sl no	Title	Department	Dates
1	Design of Advanced Concrete Structures	CE	03-07-2019 to 10-07-2019
2	3 Day FDP On The Topic "Tools To Aid Online And Blended Learning"	ECE	08-07-2020 to 09-07-2020,16-07-2020
3	1 day FDP on "Introduction to Simulink"	ECE	26-07-2019 to 26-07-2019
4	KTU Sponsored three day FDP on "Role of IoT in Smart Grid"	EEE	02-07-2019 to 04-07-2019
5	eSim a First Course in the IoT Series for Teachers	ECE	21-09- 2019 to 21-09- 2019
6	Google classroom for effective teaching and internal evaluation	MBA	19-06-2020 to 19-06-2020
7	One Day Main Workshop on Arduino	ECE	08-02-2020 to 08-02-2020

#### Faculty Participation in FDPs

1	Anna Rose Varghese	FDP on Design of Advanced Concrete Structures	03-07-2019 to 10-07-2019
2	Nimisha Mathew	FDP on Design of Advanced Concrete Structures	03-07-2019 to 10-07-2019
3	Dr. Asha Joseph	International conference on Structural engineering and construction management SECON 2020	02-12-2019 to 13-12-2019
4	Dr. Unni Kartha G	A short course on random vibrations	09-12-2019 to 14-12-2019
5	Jawahar Saud S	4 week online course on Introduction to Air quality	08-04-2020 to 29-04-2020
6	Lidiya P M	FDP on Design of Advanced Concrete structures	03-07-2019 to 10-07-2019
7	Neeraja Nair	A short course on random vibrations	09-12-2019 to 14-12-2019
8	Panjami K	FDP on Design of Advanced Concrete Structures	03-07-2019 to 10-07-2019
9	Preethi M	Online Course on Advanced Concrete Technology	16-05-2020 to 14-06-2020
10	Keerthi Sabu	Design of Advanced Concrete Structures	03-07-2019 to 10-07-2019

11	Rajalakshmi T R	First Indo Japan Webinar Series on Geotechniques for Disaster Mitigation	08-06-2020 to 13-06-2020
12	Rinu J Achison	Federal Institute of Science and Technology and KSCSTE - CWRDM	24-06-2020 to 28-06-2020
13	Sreerath S	Building information modelling, sponsored by TEQIP Phase III	02-12-2019 to 13-12-2019
14	Sumayya Naznin P H	FDP on Design of Advanced Concrete Structures	03-07-2019 to 10-07-2019
15	Sowmya V Krishnankutty	Geotechnics for Disaster Mitigation"	08-06-2020 to 13-06-2020
16	Anitha T Nair	Research Methodology-Tools and Techniques	18-05-2020 to 22-05-2020
17	CETHNA JOY	Latest Trends and Challenges in IT industry	15.06.2020 to 20.06.2020
18	Divya John	Latest Trends and Challenges in IT industry	15.06.2020 to 20.06.2020
19	Dr. PAUL P MATHAI	FDP on Virtualization	17-06-2020 to 24-06-2020
20	Hansa J Thattil	Research trends in computer science	02-07-2019 to 06-07-2019
21	Hema Krishnan	Hands on FDP: Data science using Python	18-05-2020 to 22-05-2020
22	Jismy Mathew	Emerging trends in computer science- an industrial approach	24-06-2020 to 28-06-2020
23	Lakshmi S	Research Methodology : Tools and Techniques	18-05-2020 to 22-05-2020
24	Preethi N P	Hands on FDP: Data science using Python	18-05-2020 to 22-05-2020
25	REMYA R	Latest Trends and Challenges in IT industry	15.06.2020 to 20.06.2020
26	Shimy Joseph	Emerging trends in computer science- an industrial approach	24-06-2020 to 28-06-2020
27	Simi Stephen	Latest Trends and Challenges in IT industry	15.06.2020 to 20.06.2020
28	Siyamol Chirakkarottu	Emerging trends in computer science- an industrial approach	24-06-2020 to 28-06-2020
29	SOUMYA S RAJ	Emerging trends in computer science- an industrial approach	24-06-2020 to 28-06-2020
30	SREEJA E A	Five day Faculty development on technical advances in Power switching converters for renewable energy Sources and fuel cell technology for E- vehicles	01-06-2020 to 06-06-2020
31	SURYA NATARAJAN	Five Day Online FDP on Technological Advancement in Power System Control, Power Controllers, Drives and E-Vehicles	27-04-2020 to 01-05-2020
32	SURYA SUSAN ALEX	Industry Connect 2020	25-04-2020 to 05-05-2020
33	RAKHEE.R	Five day Faculty development on technical advances in Power switching converters for renewable energy Sources and fuel cell technology for E- vehicles	01-06-2020 to 05-06-2020

34	ARCHANA R	Five Day Online FDP on Technological Advancement in Power System Control, Power Controllers, Drives and E-Vehicles	27-04-2020 to 01-05-2020
35	RINKU SCARIA	"EEED" webinar series	08-06-2020 to 13-06-2020
36	SOUMYA SIMON	Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel cell Tehnology for E Vehicles	01-06-2020 to 05-06-2020
37	VEENA WILSON	Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology for E-vehicles	01-06-2020 to 05-06-2020
38	JYOTHI G K	Technological Advancement in Power System Control, Power Controllers, Drives & E-Vehicles - TAPPAD 2020	27-04-2020 to 01-05-2020
39	Muhammed Noufal C	Summer school on Machine Learning at IIIT Hyderabad	08-07-2019 to 13-07-2019
40	Aiswariya Raj	Machine Learning through FOSS	21-05-2020 to 29-05-2020
41	Anoop E G	Design, Implementation and Verification in VLSI	27-04-2020 to 01-05-2020
42	Basil K Jeemon	NPTEL-FDP Cognition, Transformation and Lives	01-07-2019 to 30-08-2019
43	Christy Jose	NPTEL- FDP Body Language: Key to Professional Success	01-07-2019 to 30-08-2019
44	Deepa N R	AI for everyone	02-04-2020 to 22-05-2020
45	Dhanya S.	NPTEL Online Course on "Electronic System for Cancer Diagnosis"	01-01-2020 to 30-04-2020
46	Dr Mini P R	Learning how to learn	11-05-2020 to 16-05-2020
47	Gayathri I K	IT Infrastructure and Emerging Trends	22-04-2020 to 22-05-2020
48	Jilu George	NPTEL FDP- FDP Switching Circuits and Logic Design	01-07-2019 to 30-10-2019
49	Sheelu Susan Mathews	Synthesis of Digital Systems	29-07-2019 to 18-10-2019
50	Sreelekshmy S	Speak English Professionally: In Person, Online & On the Phone	23-05-2020 to 04-06-2020
51	Dr. Sindhu George	Certificate Program in Data Science	01-08-2019 to 27-11-2019
52	Joice T	Nptel Course on Data Mining	01-02-2020 to 30-04-2020
53	Manju Joy	Nptel Course on Data Mining	01-02-2020 to 30-04-2020
54	Rose Mary Mathew	Nptel Course on Introduction to Machine Learning	25-07-2019-30-09-2019
55	Senu Abi	Machine Learning and Data Visualisation Using Python and MS POWER BI"	04-02-2020 to 08-02-2020
56	Sujesh P Lal	Webinar on "RANDOM FOREST- A tool for customer classification"	11-05-2020 to 15-05-2020

56	vidya T P	Research Methodology: Tools & Techniques	18-05-2020 to 22-05-2020
57	Dr. Molly Joseph M	World Congress of Poets	02-10-2019 to 06-10-2019
58	Sajana Shamsuddin	Developing Life Skills	01-11-2019 to
59	Thomas Philip	ETHICS IN ENGINEERING	01-08-2019 to 30-10-2019
60	Anisha Joseph	Research Methodology: Tools & Techniques	18-05-2020 to 22-05-2020
61	Dr.Ayswarya E P	Gchem Paint and Libre office suite writer	04-05-2020 to 10/5/2020
62	Dr. Sona Narayanan	ERUDITION 2020	23-05-2020 to 30-05-2020
63	Eldhose P Jacob	Gchem Paint and Libre office suite writer	01-01-2020 to 30-01-2020
64	Dr. Rejeesh C. R.	Emerging Areas in Manufacturing	25-05-2020 to 30-05-2020



## AICTE FACULTY TRAINING

6.3.2020

Dr Veena Madhavan IAS CEO ASAP lighting the lamp at AICTE FACULTY TRAINING. Dr.Rajashree Vice Chancellor KTU, Dr Ramesh U Director AICTE, Dr Abdul Rahman MD C-apt, Ms Anitha P Chairman FISAT etc. were also seen



## **ICEFOSS 2020**

3.2.20

Dr j Latha, Former Vice-Chancellor and Pro Vice-chancellor Jain University inaugurating the ICEFOSS 2020- National Conference on Open Source Software Technology at FISAT. Ms P Anitha, Chairman Governing Body FISAT, Dr George Issac Principal are also seen



## CHAPTER 5

### Student Support and Progression

#### Students who joined for higher studies during 2019-20

<b>Name of student enrolling into higher education</b>	<b>Program graduated from</b>	<b>Name of institution joined</b>	<b>Name of programme admitted to</b>
Abhishek Babu	CE	Fanshawe College, Boulevard, Canada	Construction Project Management
Adarsh Manoj	CE	Hamburg University of Technology, Germany.	MS in Environmental Engineering.
Adheena V	CE	Arc institute of technical education, kottiyam	Diploma in construction site engineering
Agnas Devassy	CE	SCMS	M.Tech in Environmental Engineering
Anagha R Nath	CE	School of Planning and architecture, Delhi	Masters in Urban Planning
Anjali Ajith Prasad	CE	University of Wollongong, Australia	MS in Civil Engineering
Anjana A S	CE	NICMAR, Pune	Advanced Construction Management
Anjana K P	CE	NICMAR, Pune	Advanced Construction Management
Anumol Suni	CE	Lambton College	Graduate Certificate Program in Construction project management
Aparna V R	CE	Amrita Vishwa Vidyapeetham, Coimbatore	M.Tech in Structural and Construction Engineering
Athira Ajith Prasad	CE	University of Wollongong, Australia	MS in Civil Engineering
Elvin Roy	CE	Seneca College, Toronto	PGDM in Project Management Environmental
Gadha Narayanan	CE	Technische Universität Dresden	Master of Science Advanced Computational and Civil Engineering Structural Studies
George P Thampi	CE	TU Freiburg, Germany	MS in Ground water Management

Henna Liyakath	CE	Thejus engineering college	M.Tech in structural engineering
Irene Poulose	CE	Arc Institute of Technical Education, Kottayam, Kollam	Diploma in construction site engineering
Jason Sabu V	CE	Heriot-Watt University	MSc, Civil Engineering with Industry Placement
Liya Mary Denny	CE	Federal Institute of Science and Technology	MTech in Structural engineering and construction engineering
Marvin Thomas Mathew	CE	Griffith University, Australia	Master of Civil Engineering
MUHAMMED K A	CE	MA COLLEGE KOTHAMANGALAM	MTech COMPUTER AIDED STRUCTURAL ENGINEERING
Naiyma Shibu	CE	Bauhaus Universität Weimar, Germany	MS in Natural hazards and risks in structural engineering
Nijosh K John	CE	Heriot Watt University	M.Sc. Civil Engineering
Nivedya Mohan	CE	Amal Jyothi College of Engineering, Kanjirapally, Kottayam	MTech in Structural Engineering and Construction Management
P Sethulakshmi	CE	GEC Thrissur	M.Tech in Environmental Engineering
Pranav Ajith koodalatupuram	CE	University of Salford, Manchester	MSc Project Management in Construction
Raihana T Sakkeer	CE	University of Wollongong, Dubai	Master of Engineering Management (Pursuing)
Ria Mariam Sabu	CE	NIT CALICUT	M.Tech in Transportation Engineering
Ruksana A A	CE	Federal Institute of Science and Technology	M.Tech in Structural Engineering and Construction Management
SANJU JOSEPH SELESTINE	CE	University of Salford, Manchester, United Kingdom	MSc in Project Management in Construction
Sheffin B Sharafudheen	CE	Heriot Watt University	MSc Civil Engineering
Sherin Babu	CE	University of Salford, Manchester	MSc Quantity Surveying
Soumya Xavier	CE	NIT SURATHKAL	M.Tech in Construction management
Tomsy Jose	CE	University of Salford, Manchester, United Kingdom	MSc in Project Management in Construction
VISHNUDATHA V	CE	IIT Hyderabad	M.Tech in Environmental Engineering

Ponnu Varghese	CSE	University of Essex, Colchester, United Kingdom	MSC Applied Data Science
Abraham George	EEE	THE UNIVERSITY of ADELAIDE, AUSTRALIA	Master of Electrical Engineering
Amna Nizar	ECE	BITS Pilani	M.Tech Software Engineering,
Veena Menon	ECE	Lambton college, Mississauga	M Sc in wireless networking
Merlin Joy	ECE	University of Salford, Manchester	M Sc Data Science
Rohan Varghese	ECE	Geogr Mason University	MS Data Analytics Engineering
Sarath A	ECE	University of SURREY	MSc Data Science
Thomas Mathew	ECE	Kingston University London	MSc User Experience Design
Amal Sabu	EIE	University of Hertfordshire	M.Sc. AI and Robotics
Shaithya Sasi Kumar	MCA	University of Salford, MANCHESTER, United Kingdom	Master of Science
Athira V Gopi	MCA	Indian Institute of Information Technology and Management-Kerala	M.Phil. Computer Science
Devaraj P	ME	University of LIMERICK	MS
Feby K Roby	ME	University of LIMERICK	MS
Rahul Suresh	ME	University of Exeter	Master's in engineering business management With Industrial Placement

## Outstanding Performance in Co-curricular and Extra – curricular activities

### Achievements – Innovation & Research

- Jose Ben of ECE won 1st prize in SIMHACK by IEEE Robotics & Automation Society, IEEE Kerala Section. He was also the runner-up in Code in Lockdown (National Level Coding competition)
- by IEEE Robotics & Automation Society, IEEE Kerala Section and 3rd prize in letZcode 1.0 by IEEE FISAT SB
- Alex Jolly of ECE department is the Winner of AI Fest 2.0 conducted by Innovation and Entrepreneurship Development Cell - College of Engineering Thalassery (IEDC COET) powered by Kerala Startup Mission (KSUM).
- SebinThankachan of ECE department won the 3rd position in the “Curious'20 Electro Quiz” organized by the industry application society chapter of IEEE SB SJCTET
- Akshay Sunil, Fairuos Jahan Mohamed Iqbal s of FISAT Business School and Dibin Jose from MCA are the co-founders of Conex365. Conex has been shortlisted on UN Goals of sustainable development that focuses on Quality Education, Decent work environment and partnership. The platform helps students to bridge the theory-practise gap.
- Ms. Athulya Sreekumar, Ms. Bhavya P, Ms. Raichu Mary Mathew & Mr. Ajay Baby with the guidance from Mrs. Raji P, Assistant Professor, EIE participated in Young Innovators program (2019- 2022) KDISC& KSUM& got prize for their project “Sonic Sanitary Cleaner” at state level competition. The above team along with Mr. Abel B C, Mr. YadhuKrishna, Mr. M Vishnu were also the finalists of Smart India Hackathon (AICTE).
- Mr. Cyril Mathew, Mr. Yadhu Krishnan & Mr. Joseph Thomas of S6 EIE won Third prize in the event “Technovation”, organized by Jyothi Engineering College th th as part of THARANG2020
- Mr. Akash Anil, Mr. Akshay Vellarackal, Mr. Jins George & Mr. Jacob Thomas of EI department with the guidance of Dr. Anish Mathew participated in Young Innovators program (2019-2022)
- KDISC & KSUM & were selected as the finalists for their project “Wireless charging of Drone” at state level competition.
- Mr. Ajay Baby & Mr. Vishnu K S of S6 EIE won first prize with a cash prize of Rs.1,00,000 in India Skills Kerala 2020, State level finals in the category Mobile Robotics.
- The team FROZA from S8 Mechanical Engineering, Mr. Amal Shaji, Mr. Feby K Robi, Mr. Amarnath C, Mr. Abhijith S, Mr. Akshay Kumar, Mr. Akhil Aswin, Mr. Akshay Toms, Mr. Anto Paul Sam, Mr. Athul Krishna, Mr. Binil John under the guidance of Mr.

Nithin H., Assistant Professor, ME Department, acquired 17th position (first among the teams from Kerala) in SAEISS ELECTRIC TWO WHEELER DESIGN COMPETITION conducted at Bannari Amman Institute Of Technology, Sathyamangalam.

- Mr. Antony Francis & Mr. Thomas C Francis, S4 Mechanical Engineering won 2nd position in SAE INDIA Student Convention Tier II JET TOY - manipulation Competition Mr. Salih, S4 Mechanical Engineering was awarded Gold Honour in International Astronomy and Astrophysics Competition 2020, conducted by IAAC, Germany.
- Rithika Liz Bobby (S4 CSB) has been selected as BEST PERFORMER in the INTERNATIONAL SPACE SCIENCE COMPETITION 2020 through ISSC-2020(National Level) test conducted by Go4Guru Inc.
- Narayanan V. Eswar secured 3rd place in Hackmania 3.0" held on 29th February to 1st March, conducted at PES College of Engineering, Mandaya in collaboration with Binghamton University, Newyork, USA.
- Saurav N. S. (S6 CSB), Rishad P (S6 CSB), Liya Laiju (S6 CSB) and Narayanan V Eswar (S4 CSB) won the second runner up award at "Hackmania 3.0", a south India level Hackathon organized by PES College of Engineering, Mandya in Association with and supported by Binghamton University of New York, New York, USA and Uma Nath Singh Institute of Engineering & Technology, Jaunpur, UP.
- Malavika Rajeev (S6 CSB) secured 3rd prize in the event RUNTIME TERROR organized by IEEE SCT SB at Sreechithirathirunal College of Engineering, Pappanamcode.
- Anagha Zacharia (S7 CSE A) got second prize for paper presentation "Euphoria – 2K19" at Rajagiri School of Social Science.

## Achievements – Management

Sl no	Student name	Department	Achievement
1	N Neelakandan, Merlin George, Mishma Joshy, Neelima Babu	MBA	Secured second prize for the finance game at INFLORE, 2019 conducted at Rajagiri Centre for Business Studies, Kochi
2	Ann Mary Robin, Ebin, Antony, Harikrishnan	MBA	Received the Best Marketing award at Xelencia, the management fest conducted by Bharatmatha Institute of Management, Kochi
3	Safal K Salim	MBA	Secured the Best Photographer award at Xelencia, the management fest conducted by Bharatmatha Institute of Management, Kochi
5	Anandh, Merlin george, Aswini Prabhakar, Emil	MBA	Awarded the Best management Team awarded conducted as part of the management fest, Asgardian at Rajadhani Business School, Trivandrum
6	Anandh, Aswini, Emil, Aiswarya C K	MBA	Awarded the Best Management Team award at UC College, Aluva

7	Anand Manoj Mathew,Aswini T V,Aiswarya C K, Emil Michael	MBA	Awarded second prize for the HR game conducted by SCMS College, Cochin
8	Anand Manoj Mathew,Aswini T V,Aiswarya C K, Emil Michael	MBA	First prize for the Best Management Team event conducted by Naipunya Business School, Karukutty
9	Ann Mary Robin, Ebin, Antony, Harikrishnan	MBA	Won second prize for the marketing game conducted at Holy Grace Business School, Mala



## REBOOT KERALA HACKATHON

6.3.2020

Dr Veenamadhavan IAS inaugurating the ASAP Reboot Kerala Hackathon at FISAT campus. Ms Madhavikutty IAS, assistant collector Ernakulam were also seen



## MADHAVIKUTTY IAS VISITING REBOOTKERALA HACKATHON

6.3.2020

Ms Madhavikutty IAS Assistant Collector Ernakulam Visiting the Reboot Kerala Hackathon venue at FISAT



# **DR RAMESH U ADDRESSING**

6.3.2020

Dr. Ramesh U, Director, AICTE addressing the Reboot Kerala Hackathon at FISAT



## Achievements – Sports

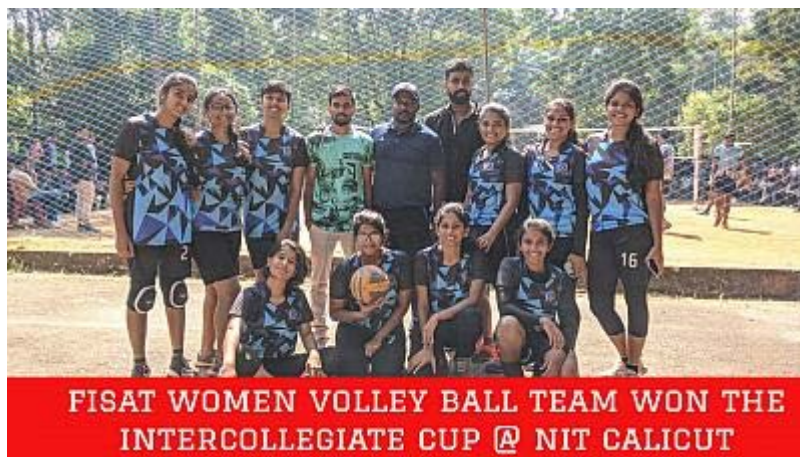
Sl no	Name	Department	Event
1	Jopaul, Junail, Mohammed Jafsar, Joe Jhonson	MBA	Bestowed the Best Football Team award at Naipunya Business School, Karukutty
2	Jo Paul Crusho	MBA	Represented APJ AK Technological University in South Zone Inter-University Football Tournament at VIT, Chennai
3	Akhil Roy	ECE	Silver medal in Javelin throw event of APJAKTU Athletics championship at Thiruvananthapuram.
4	Mr. Akash Anil	EI	Secured bronze medal at Wako Indian open International Kick Boxing tournament held at Talkatora Indoor Stadium, NewDelhi
5	Ms. Ananya T Jith	CSE	Secured Gold medal in KTU University Athletics Meet shot-put women with meet record; Gold medal for KTU University Athletics Meet discus throw women with meet record; 1st position for MA College Volleyball Championship; 1st position for volleyball championship at NIT Calicut as part of RAGAM Fest
6	Ajin Abraham	CSE	2nd in NIT Calicut for Basketball Tournament; 2nd in Amritha College Kollam for Basketball Tournament; 2nd in Saintgits Kottayam for Basketball Tournament; Represented KTU in All India Inter University Netball Competition held in Calicut
7	Ashlin Sam Thomas	CSE	2nd in NIT Calicut for basketball; 2nd in Amrith College Kollam for basketball; 2nd in Saintgits Kottayam for basketball
8	AnaghaS, Honey Mariam Babu	CSE	Won the first position in the “Strike 3 NIT Volley Ball Tournament”
9	AnaghaS, Honey Mariam Babu	CSE	won the first position in the “Mar Athanasius Ever Rolling Trophy ”
10	Nandini Menon	CSE	G o l d medallist in APJ AK Technological University Table tennis Tournament



## CAPE CUP 2020

3.1.20

FISAT Professors Team played the Cape Cup 2020 and got the Runners Up Trophy.





APJ AKTU Inter zone Table Tennis 2019-20 Winners.



Medal Winners of APJ AKTU All Kerala Athletic Meet 2019-20



Winners of All Kerala Volleyball Tournament 2020



Winners of APJ AKTU D-zone Basketball Tournament 2019-20



Winners of All Kerala Inter Collegiate Volleyball tournament 2019



Winners of APJ AKTU D-zone Volleyball Tournament 2019-20



APJ AKTU D-zone Table Tennis Medal Winners 2019-2020



Runners up of APJ AKTU D-zone Football Tournament



Runners up of All Kerala Inter Collegiate Volleyball Tournament 2019



Runners up of APJ AKTU D-zone Chess tournament



Second Runners up of APJ AKTU D-zone Shuttle tournament



Winners of All Kerala Professors Cricket Tournament





All Kerala Masters Table Tennis Tournament



APJ AKTU D-zone Basketball Tournament



Runners up of APJ AKTU Inter zone Basketball Tournament 2019-20

#### Achievements – Cultural events

Sl no	Name	Department	Event
1	Sreya K V	ECE	Won prizes for dancing at various colleges like Naipunya Business School, Karukutty, St Peter's College, Kolenchery, St Albert's College, Ernakulam, Sacred Hearts College, Thevara
2	Vysakh V	ECE	Won prizes for dancing at various colleges like Illahia College of Arts and Science, Muvatupuzha, SNMIMT, Maliankara, Government Engineering College, Idukki
3	Mr. Vishal T Ashwin	ME	bagged 2nd (Silver ) position in SAE All India Tier III National level Group Discussion competition.
4	Mr. Sidharth Menon & Mr. Vishal T Ashwin	ME	won 2nd and 3rd position respectively in SAE INDIA Student Convention Tier II Group Discussion competition.

5	Don Sebastian	CSE	<p>third prize in “One Step Bunch” competition held in connection with GURUTWA 2020 organized by SNMIMT Engineering College, Maliankara;</p> <p>first prize in “Group Dance” held in connection with Intercollegiate Fest INGENIO 2K20 organized by Ilahia College of Engineering, at Muvattupuzha;</p> <p>first prize in “Samanvaya: Group Dance Competition” in connection with Royal Albertian Fest 2020 organized by St Albert's College, Ernakulam;</p> <p>first prize in “Step up: Group Dance Competition” organized by the Department of English, St. Peter's College, Kolenchery</p>
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**FISAT COLLEGE DANCE TEAM WON THE FIRST PRIZE IN ARTS FEST @ ST PERTERS, KOLENCHERY.**



**FISAT DANCE TEAM WON THE FIRST PRIZE IN NATIONAL LEVEL CULTURAL AND ARTS FEST HELD AT ST ALBERTS COLLEGE, ERNAKULAM**

## Students who joined for higher studies during 2019-20

<b>Name of student enrolling into higher education</b>	<b>Program graduated from</b>	<b>Name of institution joined</b>	<b>Name of programme admitted to</b>
Abhishek Babu	CE	Fanshawe College, Boulevard, Canada	Construction Project Management
Adarsh Manoj	CE	Hamburg University of Technology, Germany.	MS in Environmental Engineering.
Adheena V	CE	Arc institute of technical education, kottiyam	Diploma in construction site engineering
Agnas Devassy	CE	SCMS	M.Tech in Environmental Engineering
Anagha R Nath	CE	School of Planning and architecture, Delhi	Masters in Urban Planning
Anjali Ajith Prasad	CE	University of Wollongong, Australia	MS in Civil Engineering
Anjana A S	CE	NICMAR, Pune	Advanced Construction Management
Anjana K P	CE	NICMAR, Pune	Advanced Construction Management
Anumol Suni	CE	Lambton College	Graduate Certificate Program in Construction project management
Aparna V R	CE	Amrita Vishwa Vidyapeetham, Coimbatore	M.Tech in Structural and Construction Engineering
Athira Ajith Prasad	CE	University of Wollongong, Australia	MS in Civil Engineering
Elvin Roy	CE	Seneca College, Toronto	PGDM in Project Management Environmental
Gadha Narayanan	CE	Technische Universität Dresden	Master of Science Advanced Computational and Civil Engineering Structural Studies
George P Thampi	CE	TU Freiburg, Germany	MS in Ground water Management
Henna Liyakath	CE	Thejus engineering college	M.Tech in structural engineering
Irene Poulouse	CE	Arc Institute of Technical Education, Kottayam, Kollam	Diploma in construction site engineering
Jason Sabu V	CE	Heriot-Watt University	MSc, Civil Engineering with Industry Placement
Liya Mary Denny	CE	Federal Institute of Science and Technology	MTech in Structural engineering and construction engineering
Marvin Thomas Mathew	CE	Griffith University, Australia	Master of Civil Engineering
MUHAMMED K A	CE	MA COLLEGE KOTHAMANGALAM	MTech COMPUTER AIDED STRUCTURAL ENGINEERING
Naiyma Shibu	CE	Bauhaus Universität Weimar, Germany	MS in Natural hazards and risks in structural engineering

Nijosh K John	CE	Heriot Watt University	M.Sc. Civil Engineering
Nivedya Mohan	CE	Amal Jyothi College of Engineering, Kanjirapally, Kottayam	MTech in Structural Engineering and Construction Management
P Sethulakshmi	CE	GEC Thrissur	M.Tech in Environmental Engineering
Pranav Ajith koodalaturam	CE	University of Salford, Manchester	MSc Project Management in Construction
Raihana T Sakkeer	CE	University of Wollongong, Dubai	Master of Engineering Management (Pursuing)
Ria Mariam Sabu	CE	NIT CALICUT	M.Tech in Transportation Engineering
Ruksana A A	CE	Federal Institute of Science and Technology	M.Tech in Structural Engineering and Construction Management
SANJU JOSEPH SELESTINE	CE	University of Salford, Manchester, United Kingdom	MSc in Project Management in Construction
Sheffin B Sharafudheen	CE	Heriot Watt University	MSc Civil Engineering
Sherin Babu	CE	University of Salford, Manchester	MSc Quantity Surveying
Soumya Xavier	CE	NIT SURATHKAL	M.Tech in Construction management
Tomsy Jose	CE	University of Salford, Manchester, United Kingdom	MSc in Project Management in Construction
VISHNUDATHA V	CE	IIT Hyderabad	M.Tech in Environmental Engineering
Ponnu Varghese	CSE	University of Essex, Colchester, United Kingdom	MSC Applied Data Science
Abraham George	EEE	THE UNIVERSITY of ADELAIDE, AUSTRALIA	Master of Electrical Engineering
Amna Nizar	ECE	BITS Pilani	M.Tech Software Engineering,
Veena Menon	ECE	Lambton college, Mississauga	M Sc in wireless networking
Merlin Joy	ECE	University of Salford, Manchester	M Sc Data Science
Rohan Varghese	ECE	Geogr Mason University	MS Data Analytics Engineering
Sarath A	ECE	University of SURREY	MSc Data Science
Thomas Mathew	ECE	Kingston University London	MSc User Experience Design
Amal Sabu	EIE	University of Hertfordshire	M.Sc. AI and Robotics
Shaithya Sasi Kumar	MCA	University of Salford, MANCHESTER, United Kingdom	Master of Science
Athira V Gopi	MCA	Indian Institute of Information Technology and Management- Kerala	M.Phil. Computer Science
Devaraj P	ME	University of LIMERICK	MS
Feby K Roby	ME	University of LIMERICK	MS
Rahul Suresh	ME	University of Exeter	Master's in engineering business management With Industrial Placement

## Placement Statistics

Branch	Number of offers	Number of students placed
BTech CE	17	17
BTech CS	150	87
BTech EC	71	45
BTech EE	25	18
BTech EI	8	7
BTech ME	29	24
MCA	62	53
MTech SECM	1	1
MBA	87	68
<b>Total</b>	<b>450</b>	<b>320</b>

## CHAPTER 6

### Innovation And Entrepreneurship

#### FABLAB -IED Cell

A FABLAB -IED Cell is functioning in FISAT under the charge of Dr Anil Kumar M N, Professor, ECE Department with Mr Tom Anto, AP, Department of Mechanical Engineering as the IEDC Nodal Officer. Innovation and Entrepreneurship Development Centre (IEDC) is a flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurship among the student and academic fraternity in the educational institutions in the State of

Kerala. The IEDC acts as an aspirational platform, for the student entrepreneurs and tech savvy innovators, in skilling and sharpening their entrepreneurial skill sets.

### Programmes Conducted by FABLAB/ IEDC for AY 2019-20

SI No	Programme Title	Type of programme	Date
1	First year B.Tech Induction	Innovations/ Entrepreneurship	01/8/2019 to 5/08/2019
2	3D designing & Printing course in association with C APT`	Workshop	15/09/2019 to 19/09/2019
3	Launch of "KPMG Centre of Excellence and Maker fest Kerala" by Shir. V Muraleedharan, Minister of State for External Affairs	Entrepreneurship/ Leadership	1/11/2019
4	Technology Popularization programme	Technology popularization	29/11/2019 & 3/12/2019
5	Maker Fest Kerala	Entrepreneurship/ Technology popularization	14/12/2019
6	Smart India Hackhaton - Internal	Innovation	5/2/2020
7	One day seminar on AICTE Quality Initiatives, NITTT and NEAT	Seminar	6/3/2020
8	Community mobile clinic	Social Service	20/04/2020 to 30/04/202
9	Webinar on "Basics of Startup Funding" by Robin Alex Panicker, Finotes	Entrepreneurship	23/4/2020

## Women Empowerment

The women cell in FISAT has been actively functioning since the year 2015. During these years the women cell through its stakeholders has remained focused on women empowerment.

### Events organised by Women's Cell

1. Gender Mainstreaming in Educational Institutions – Dr. Mini P R, Professor & HOD, Department of Electronics & Communication Engineering, FISAT – 17th October 2019
2. Empowering women through Financial Literacy – Dr. Dhanya Alex, Associate Professor, Department of Business Administration, FISAT – 27th November 2019
3. Physical and Emotional Well Being for Girls – Ms. Divya John, Assistant Professor, Department of Computer Science & Engineering, FISAT – 23rd January 2020
4. Healthy Diet & Healthy Life – Mrs. Reshmi R, Assistant Professor, Department of Computer Science & Engineering, FISAT – 13th February 2020



## CHAPTER 8

### SUSTAINABLE DEVELOPMENT

#### Environment Day Celebration



#### Gandhi Smrithi Cycle Yathra 2019



## CHAPTER 9

### Service Learning

#### Social Outreach and Extension Activities

##### Community mobile medical clinic



## A day with the differently abled children



## Flood Relief Activities





## Blood Donation Camp



## R&D Cell – Sanitizer Preparation



### Charity Programs (Food distributed)



Thiruhrudaya Sadanam  
Mookkannoor



AkasaParava, Malayattoor



Immanual Orphanage,  
Azhakom



Kripasadanam OldAge  
Home, Karayamparambu



CMC Mariam  
House Kariad

# Federal Institute of Science and Technology (FISAT)

## Internal Quality Assessment Cell (IQAC)

### Action Taken Report (2019-2020)

Date of Meeting	Decisions	Action Taken
17.07.2019	<ul style="list-style-type: none"> <li>• Prepare and submit a Self Assessment Report of the 5 programs CSE, EEE, EIE, ECE &amp; ME.</li> <li>• Submit the department budget proposal to the director academics.</li> <li>• Assign a first year coordinator to improve the discipline and academics.</li> <li>• Prepare the handbook and calendar for 2019-20</li> </ul>	<ul style="list-style-type: none"> <li>• SAR of the 5 programs CSE, EEE, EIE, ECE &amp; ME. are prepared and submitted</li> <li>• Submitted the department budget proposal</li> <li>• Deputed Dr. Jose Cherian as first year coordinator</li> <li>• Prepared the handbook and calendar for 2019-20</li> </ul>
18.11.2019	<ul style="list-style-type: none"> <li>• Reconstitute IQAC as per the recommendations of KTU</li> <li>• Conduct the mock visit for NBA accreditation</li> <li>• Identify the location to display the sign boards.</li> <li>• Conduct the APMC meeting</li> <li>• Conduct the value education session</li> <li>• Submit the AQAR for the academic year 2018-2019</li> <li>• Conduct the ISO internal audit and hold the MRM.</li> <li>• Authorize the IQAC coordinator and the principal to nominate members to the IQAC core committee.</li> </ul>	<ul style="list-style-type: none"> <li>• IQAC team is reconstituted by incorporating the KTU academic audit team.</li> <li>• The mock visit is conducted</li> <li>• Sign boards are placed at important locations of the campus</li> <li>• The APMC meeting is conducted and scheduled remedial classes</li> <li>• Value education sessions are conducted for students</li> <li>• The AQAR for the AY 2018-19 is submitted</li> <li>• ISO internal audit is conducted</li> <li>• IQAC core committee is formulated</li> </ul>
29.01.2020	<ul style="list-style-type: none"> <li>• Prepare the SAR with the modified PO attainment calculation</li> <li>• Orient students and staff (Teaching &amp; Non-teaching)</li> </ul>	<ul style="list-style-type: none"> <li>• The SAR is prepared with modified PO attainment calculation</li> <li>• Orientation programs were conducted for students and staff</li> </ul>

	<p>about the NBA accreditation process.</p> <ul style="list-style-type: none"><li>• Conduct the KTU internal audit as per KTU directions.</li><li>• Apply for 2f status and NIRF</li><li>• Conduct the APMC meeting</li></ul>	<ul style="list-style-type: none"><li>• KTU internal audit is conducted</li><li>• Applied for 2f status and NIRF</li><li>• The APMC meeting is conducted</li></ul>
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