



# FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

INTERNAL QUALITY ASSURANCE CELL (IQAC)

ANNUAL REPORT

2020-2021

# Message from IQAC

Federal Institute of Science and Technology has established the Internal Quality Assurance Cell (IQAC) in the year 2015. The IQAC being an integral part of the institution facilitates realization of the goals pertaining to essential enhancement of educational quality. It actually helps to develop a system for catalytic, constant and cognizant academic improvements in all aspects of professional functioning of the institution.

The institution has a vision of integrating innovative ways of teaching and learning, extracurricular activities, research and student development in its pursuit of nation building. The Internal Quality Assurance Cell would further promote the vision of the institution in its path to becoming a centre for excellence. Envisioned as an embedded function of FISAT, the IQAC harnesses synergies from all its constituent units viz. the stakeholders of the institution.

The cell responsibly reports and documents various activities of the institution. A continuous follow up is always being made on infrastructural resources to assure ample, appropriate and enhanced professional facilities for teaching, learning and associated academic research activities.

The year 2020-2021 was fully dedicated to NAAC Cycle 2 preparations. A new spacious IQAC room is set up in the administrative block of the institution. The documentation process as per the revised accreditation framework of NAAC is planned through the collective effort of criteria coordinators and metric coordinators.

IQAC is very grateful to the Chairman and Management Committee members of FISAT, Principal, Vice Principal, Faculty Team and Non – Teaching staff for their relentless efforts which helped in the successful accomplishment of the academic goals set for the year 2020-21.

# Federal Institute of Science and Technology (FISAT)

## Internal Quality Assessment Cell (IQAC)

### Action Taken Report (2021-2022)

Date of Meeting	Decisions	Action Taken
15/09/2020	<ul style="list-style-type: none"> <li>• Authorize the IQAC coordinator to get the final approval of AQAR (2019-2020) from the internal governing council (IGC).</li> <li>• Comply with the feedback given by the NBA expert team</li> <li>• Initiate the follow up actions consequent to NBA expert team visit</li> <li>• Apply for NIRF ranking</li> <li>• Apply for 2f</li> <li>• Prepare and submit the activities of each department for the preparation of academic calendar</li> <li>• Conduct PTA meetings online after the first series test.</li> <li>• Conduct KTU internal academic audit as per directions from KTU.</li> <li>• To conduct orientation sessions on Revised Accreditation Framework (RAF) for FISAT staff.</li> </ul>	<ul style="list-style-type: none"> <li>• AQAR was approved by IGC and submitted in December 2020.</li> <li>• Distributed the compliance report format of the NBA to all the accredited program department Heads</li> <li>• Separate meetings of criterion 3 has conducted and decided the proportion for assessing the attainments by direct and indirect assessment method</li> <li>• Documents were prepared by the IQAC coordinator with respect to the follow up actions needed after the accreditation</li> <li>• Special sessions on OBE had given to the first year students and their parents</li> <li>• Applied for NIRF ranking</li> <li>• Application for 2f submitted</li> <li>• Prepared the Academic Calendar and handbook for the academic year</li> <li>• Conducted online PTA meeting</li> </ul>

	<ul style="list-style-type: none"> <li>• Authorize the IQAC coordinator to modify the API of the UGC and prepare one to fit in the FISAT context.</li> <li>• Authorize IQAC coordinator to take necessary steps to prepare the perspective plan</li> <li>• Conduct DQAC meetings</li> <li>• Identify suitable online teaching platforms</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted KTU internal academic audit</li> <li>• Conducted an online orientation session by the NAAC coordinator.</li> <li>• IQAC coordinator has prepared the API format to fit in the FISAT context and all faculty members have submitted the API to the concerned HoD</li> <li>• The perspective plan is to be finalized</li> <li>• DQAC meetings has been conducted</li> <li>• Decided to use Webex and google platforms for online teaching</li> </ul>
06.01.2021	<ul style="list-style-type: none"> <li>• Conduct retests/model tests for slow learners</li> <li>• Submit the reports of all events and activities conducted by the clubs/cells/committees/associations to IQAC.</li> <li>• Entrust the software cell to develop software for submitting the report of the cell/club/committees/associations.</li> <li>• Submit the department budget for the next financial year (2021-2022) for approval from the management.</li> <li>• Redesign the ISO data format so as to be used for NAAC, NBA data collection.</li> </ul>	<ul style="list-style-type: none"> <li>• Conducted retests/model tests for slow learners after the offline classes</li> <li>• Submitted the reports of all events and activities conducted by the clubs /cells/ committees/ associations</li> <li>• Developed the software for submitting the report of the cell/club/committees/ associations.</li> <li>• Department wise budget prepared and submitted.</li> </ul>

	<ul style="list-style-type: none"> <li>• Revise the rubrics for calculating the PO or CO attainment as per the recommendation of NBA expert team</li> <li>• Digitalize the course diary and integrate it to the campus software</li> <li>• Apply applying for ARIIA</li> <li>• Prepare for NAAC second cycle accreditation</li> <li>• Authorize the college research cell (CRC) to collect various research proposals and create a project bank</li> <li>• Evaluate the effectiveness of online teaching platform</li> <li>• Take necessary steps to get register the college alumni association</li> <li>• Conduct half yearly review meetings of the cells/clubs/committees/associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Modified the ISO data format for data collection.</li> <li>• Revised the rubrics for calculating the PO or CO attainment</li> <li>• Updated the campus software incorporating the new rubrics for CO/PO attainment.</li> <li>• Digitalized the course diary.</li> <li>• Applied for ARIIA</li> <li>• Initiates the preparations for NAAC reaccreditation.</li> <li>• Collected various research proposals and created a project bank</li> <li>• Student feedback is collected</li> <li>• Initiated the registration process</li> <li>• Conducted half yearly review meetings of the cells/clubs/committees/associations.</li> </ul>
17.02.2021	<ul style="list-style-type: none"> <li>• Constitute the committees for various criteria for NAAC accreditation</li> </ul>	<ul style="list-style-type: none"> <li>• Constituted the committees</li> </ul>

	<ul style="list-style-type: none"> <li>• Formulate the strategy for calculating the attainment of first year courses</li>   <li>• Preparation for NBA accreditation for CE, MCA &amp; MBA programs</li> </ul>	<ul style="list-style-type: none"> <li>• Constituted first year program assessment committee with representatives from all Depts.</li> <li>• Decided to set up targets and calculations of attainments of COs for the first year courses institutional wise from 2020-2021 academic year onwards.</li>   <li>• Initiated the works for NBA accreditation of CE and MCA programs</li> </ul>
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# The New Management Team of FISAT

Mr. Shimith P R, Chairman/Secretary

Mr. Sachin Jacob Paul, Vice Chairman/President

Mr. Jenib J Kachapilly, Treasurer

Mr. Paul Mundadan, Vice President

Mr. Abdul Nazar M P, Associate Secretary

Mr. Rajanarayanan V M, Associate Treasurer

Mr. Tom Thomas, Managing Committee Member

Mr. Mohammed Ansari P K, Managing Committee Member

Mr. Rajavarma E K, Managing Committee Member

Mr. George C Chacko, Managing Committee Member

Mr. Ajithkumar K K, Managing Committee Member

Ms. Jayasree K, Managing Committee Member



Academic Affairs



## 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
Civil Engineering
Electrical and Electronics Engineering
Electronics and Instrumentation Engineering
Basic Sciences

## Performance in University Examination

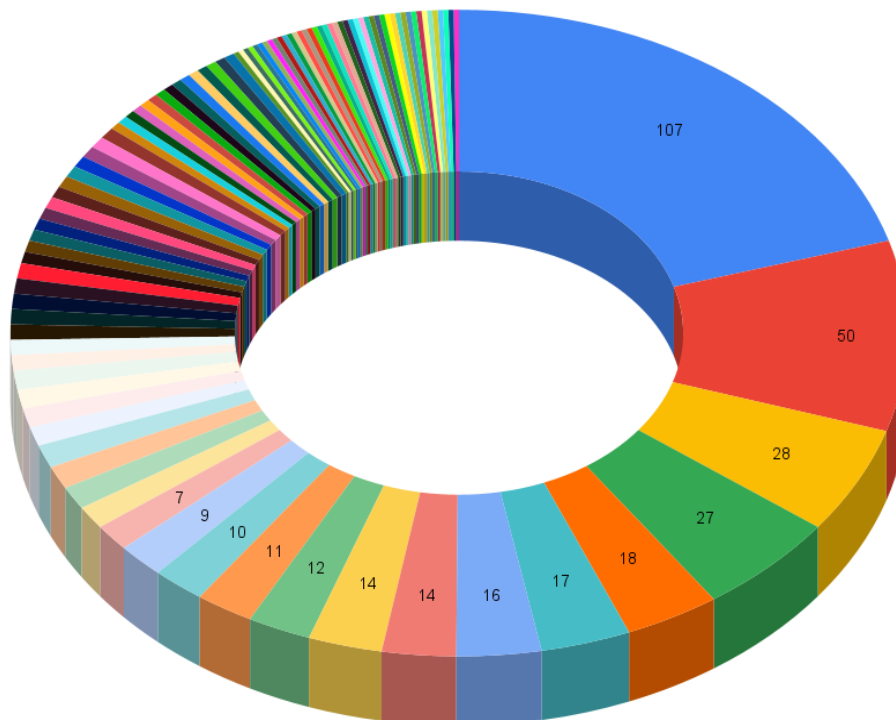
Sl. No.	Dept.	No. of Students Registered for Final Semester Examination	No. of Students Passed Final Semester Examination	Pass Percentage	No. of Students Eligible for Degree	Percentage Students Eligible for Degree	Percentage Students Eligible for Degree as on 30 <sup>th</sup> June 2021
1	CE	111	110	99.09	75	67.57	67.57
2	CS	123	119	96.75	88	71.54	71.54
3	EE	60	54	90	34	56.67	56.67
4	EC	95	91	95.79	73	76.84	76.84
5	EI	38	33	86.8	17	44.7	44.7
6	ME	121	119	98.34	86	71.07	71.07
7	MBA	113	113	100	101	89.38	89.38
8	MCA	66	66	100	58	87.87	87.87
9	CE/SECM	23	24	95.83	23	95.83	95.83
10	CS/CSIS	1	1	100	1	100	100
11	EE/PEPS	4	4	100	4	100	100
12	EC/COEN	1	1	100	1	100	100
13	EC/VLSI&ES	4	4	100	4	100	100
14	ME/CIM	0	0	-	0	-	-

# Placements

## 604 offers in 103 Companies

In spite of the hurdles posed by the pandemic, the campus recruitment process of the 2021 graduating batch has been a great success. FISAT students came out successful in the online recruitment process of many companies. The major companies that recruited the students this year are TCS, Infosys, Accenture & Wipro. Packages in the range of 6-8 Lakhs per annum were offered by TCS (Digita), CTS (GenC Next), Pricewaterhousecoopers, Big Binary and Byjus

Placement Offers - 2021 graduating batch



- TCS ● Infosys ● CTS ● US Technology ● Wipro ● Accenture ● Quest Global ● Experiion ● EY ● FACE ● People10
- Pearldata ● 6D Technologies ● BYJUS APP ● BigBinary ● CodeYoung ● NeST ● Paradigm ● Imperium Management Solutions
- Innova Digital Solutions ● ITC Infotech ● Oburst ● Buck ● Capgemini ● Dexlock ● Mindtree ● PriceWaterHouseCoopers
- Ruby Seven Studios ● TCS- Digital ● Exacore IT Solutions ● Factweavers ● Hedge School Of Applied Economics ● Innovature Software Labs
- IQVIA ● Oosyn Technologies ● Prabhu Steels ● SOTI ● Speridian ● SunTec ● Survey Sparrow ● Travancore Analytics
- United Group Of Initiatives ● Asianet Broadband ● Care Health Insurance Limited ● Envestnet ● ESAF Small Finance Bank ● G10X India Pvt Ltd
- H&R Block ● Hexaware ● Mitsogo ● Mphasis ● NewAgeSys Solutions (P) Ltd ● SpeEdLabs ● Terralogic Software Solutions
- UIS Global Private Limited ● WhiteRabbit ● Wrench Solutions ● 90+ My Tuition App ● Amazon India ● BT Cylinders ● Crayola Systems
- Digital Core Technologies ● EMA Partners ● Federal Bank ● Fethersoft ● Fragomen India ● Genpact ● Geojith Technologies
- Godrej Aerospace ● GramPro Business Services ● Grand Hypermarket ● Guidehouse ● IBM ● IBS ● IDP Education ● Impaqtive
- InApp ● Integral Solutions ● Intellipaath ● Jaro Education ● Kalkitech ● Kurlis Cables ● Lightrains Technolabs ● Manhattan Associates
- Maple Tech Space ● Master Tech Marine Systems ● Mountblue Technologies ● OEN ● PKJ Technologies ● Quantiphi ● RGC Dynamics
- SFO Technologies ● Sunrise Biztech Systems ● SunTec ● Tessolve Semiconductor ● Tunerlabs ● TutorComp ● Vaisesika Consulting
- Veritas Prime Labs ● WDN ● XO Bills Technology FZCO

# Feedback Analysis on Curriculum

## Students

### Question

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?

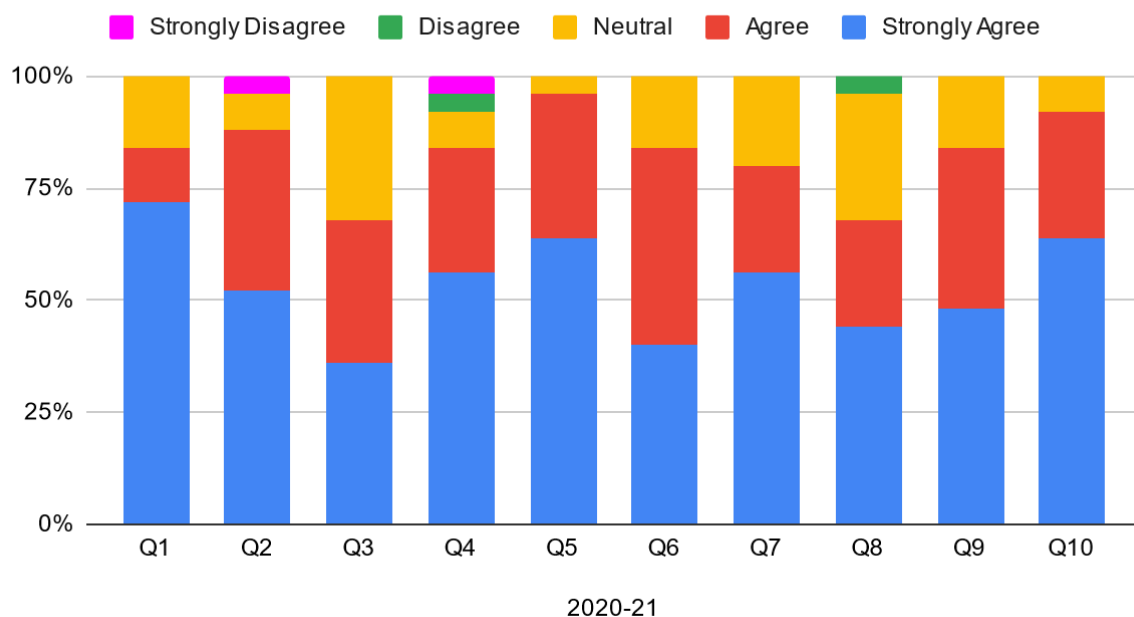
Q9: How effective has the programme been in instilling confidence in you to face competitive exams and interviews?

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

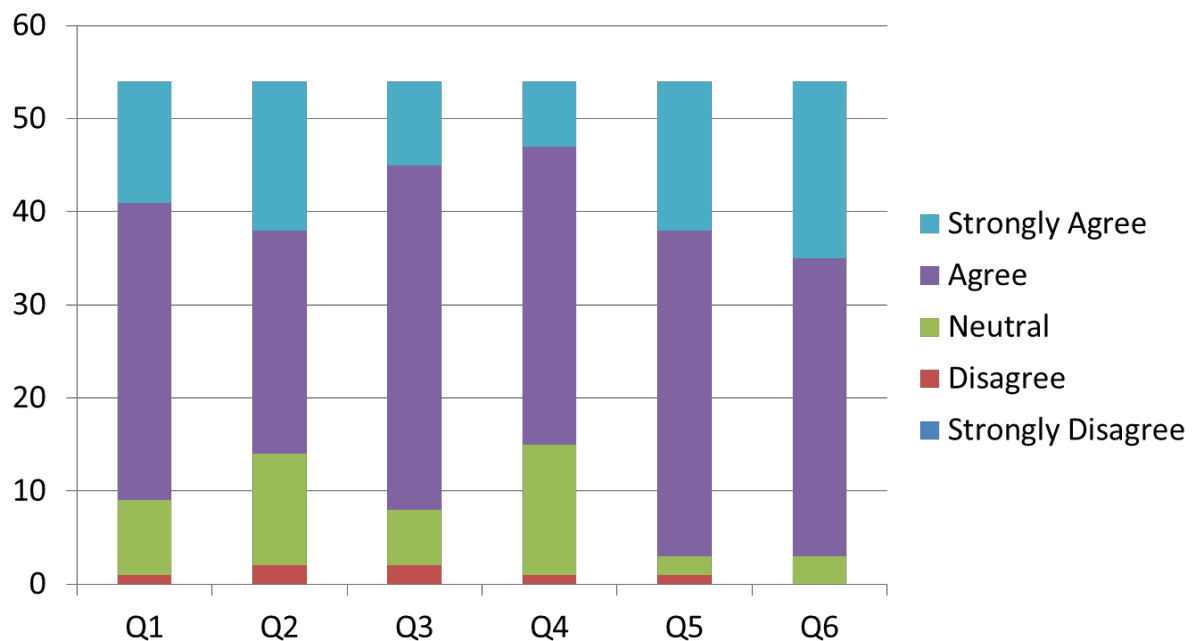
## EIE - STUDENT CURRICULUM FEEDBACK 2020-21



## Faculty

### Questions

- 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

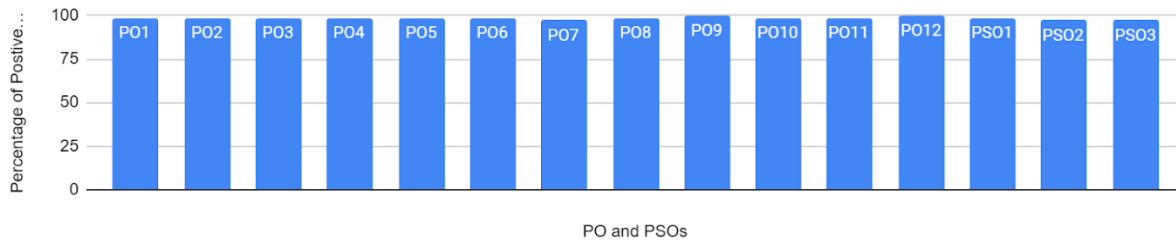
- Q 1:Ability to apply fundamental subject knowledge to new problems.
- Q 2:Ability to analyse complex engineering problems.
- Q 3:Ability to design creative, original and cost effective solutions for engineering problems.
- Q 4:Ability to innovate solutions for complex engineering problems.
- Q 5:Ability 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:**Ability to apply knowledge in science and engineering for the design and analysis of engineering problems.

**Q 14:**Ability to design, create and develop products and processes related to Mechanical Engineering using modern tools.

**Q 15:**Ability to sustain passion for learning and work with professional ethics, either as an individual or a team member, in managing projects related to society and environment.

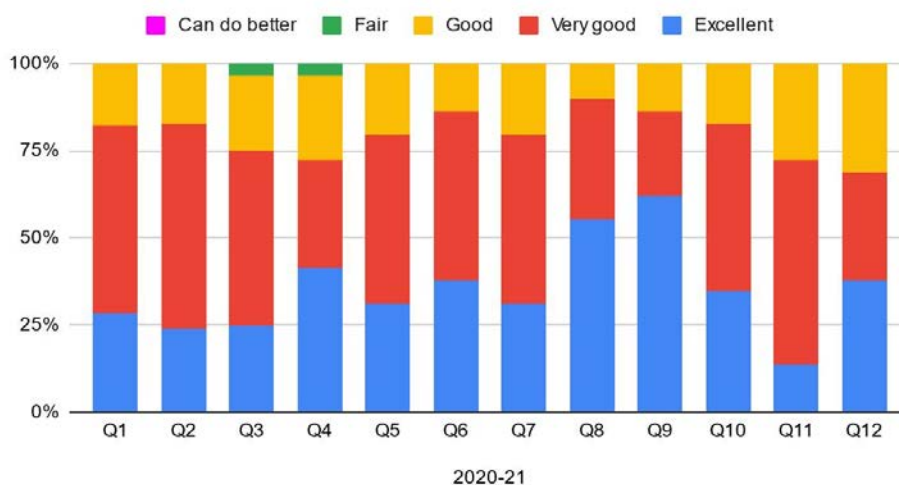
Percentage of Postive response



## Employer

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 2020-21



## Faculty Enrichment Programs

### FDPS attended:

SI No	Name Of Teacher Who Attended	Title Of The Program	Duration (From – To) (Dd-Mm-Yyyy)
1	Anna Rose Varghese	6 Days Global Fdp On Recent Research Advances In Geotchnical And Geological Engineering	17-08-2020 To 22-08-2020
2	Anu Roy	International Faculty Development Programme On Climate Change And Hydrologic Extremes	20-07-2020 To 24-07-2020
3	Beena B R	Sttp On Civil Engineering Today And Tomorrow	10-08-2020 To 14-08-2020
4	Dr. Asha Joseph	Indo-Canadian Workshop On Interactive Design In Geotechnical Engineering	24-09-2020 To 02-10-2020
5	Dr. Kavitha P E	Online Fdp On Smart Civil Engineering Practices To Meet Contemporary Issues	27-07-2020 To 01-08-2020
6	Dr. Unni Kartha G	Civil Engineering, Today And Tomorrow	10-08-2020 To 14-08-2020
7	Jawahar Saud S	5 Days Online Fdp On Researches Advances In Civil Engineering	27-07-2020 To 31-07-2020
8	Keerthi Sabu	Forensics In Sructural And Geotechnical Engineering	15-03-2021 To 19-03-2021
9	Lidiya P M	Online Fdp On Smart Civil Engineering Practices To Meet Contemporary Issues	27-07-2020 To 01-08-2020
10	Neeraja Nair	Artificial Intelligence And Machine Learning: Theory And Applications	01-02-2021 To 05-02-2021
11	Nimisha Mathew	Sttp On Recent Advances In Pavement Material Testing And Design	17-08-2020 To 22-08-2020
12	Nujuma Nazimudhin	Geospatial Inputs For Enabling Master Plan Formulation	27-07-2020 To 31-07-2020
13	Panjami K	Indo-Canadian Workshop On Interactive Design In Geotechnical Engineering	24-09-2020 To 02-10-2020
14	Preethi M	Six Days Omlne Fdp On Construction Industry-Present And Future Trends	21-06-2021 To 26-06-2021
15	Rajalakshmi T R	Indo-Canadian Workshop On Interactive Design In Geotechnical Engineering: Theory To Practice	24-09-2020 To 02-10-2020
16	Reshma Prasad	Artificial Intelligence And Machine Learning: Theory And Applications	01-02-2021 To 05-02-2021
17	Rinu J Achison	Applied Hydraulic Engineering	15-03-2021 To 19-03-2021



<b>Sl No</b>	<b>Name Of Teacher Who Attended</b>	<b>Title Of The Program</b>	<b>Duration (From – To) (Dd-Mm-Yyyy)</b>
18	Sharon Jacob	Geosynthetics For Ground Improvement	18-05-2021 To 27-05-2021
19	Sreerath S	Inculcating Universal Human Values In Technical Education	19-10-2020 To 23-10-2020
20	Sumayya Naznin P H	Paid Fdp On R	21-06-2021 To 27-06-2021
21	Leena Samuel Panackel	Construction Industry- Present And Future Trends	21-06-2021 To 26-06-2021
22	Sowmya V Krishnankutty	Fdp On Transportation Geotechniques	15-02-2021 To 19-02-2021
23	Anitha T Nair	Signal Processing And Ai	15-02-2021 To 24-02-2021
24	Anuranj P	Cloud Of Things	22-02-2021 To 27-02-2021
25	Chethna Joy	Simulation And Implementation Of Digital Circuits	15-03-2021 To 19-03-2021
26	Divya John	Machine Learning	27-07-2020 To 31-07-2020
27	Dr. Jyothish K John	Cloud Of Things	22-02-2021 To 27-02-2021
28	Dr. Paul P Mathai	lot Based Smart Manufacturing In 2030	18-01-2021 To 22-01-2021
29	Dr.Arun Kumar M N	Cyber Security	15-03-2021 To 20-03-2021
30	Dr.Prasad J C	"Internet Of Things (Iot)	02-02-2021 To 06-02-2021
31	Hansa J Thattil	Workshop On Universal Human Value	19-10-2020 To 23-10-2020
32	Hema Krishnan	Data Analytics	15-02-2021 To 19-02-2021
33	Jestin Joy	User-Centric Computing For Human-Computer Interaction	01-01-2021 To 29-03-2021
34	Jismy Mathew	Block Chain Technology & Cyber Security	16-03-2021 To 20-03-2021
35	Lakshmi S	Learning Management System	10-08-2020 To 15-08-2020
36	Meenu Mathew	Business Analytics And Data Science	15-03-2021 To 19-03-2021
37	Meera Treesa Mathews	Know Everything Related To Research	23-07-2020 To 28-07-2020
38	Merin Cherian	Mathematics For Data Science	10-08-2020 To 14-08-2020

Sl No	Name Of Teacher Who Attended	Title Of The Program	Duration (From – To) (Dd-Mm-Yyyy)
39	Neenu Johnson	Blockchain And Cyber Security	16-03-2021 To 20-03-2021
40	Pankaj Kumar G	Ict Tools For Teaching, Learning Process And Institute	10-08-2020 To 21-08-2020
41	Remya R	Block Chain	16-03-2021 To 20-03-2021
42	Reshmi R	Blockchain Technology And Cyber Security	16-03-2021 To 20-03-2021
43	Roshna K I	Workshop On Universal Human Value	19-10-2020 To 23-10-2020
44	Simi Stephen	Exploring Image Processing And Computer Vision Using Python	01-03-2021 To 05-03-2021
45	Siyamol Chirakkarottu	Block Chain Technology And Cyber Security	16-03-2021 To 20-03-2021
46	Preethi N P	Fine Tune Your Research Planning	22-03-2021 To 26-03-2021
47	Soumya S Raj	High Performance Computing And Deep Learning For Image	22-02-2021 To 27-02-2021
48	Sruthy Suresh	High Performance Computing And Deep Learning For Image, Text Analysis	22-02-2021 To 27-02-2021
49	Sreeja E A	Solar Pv System Design Using Iot	03-03-2021 To 09-03-2021
50	Surya Natarajan	Ten Days Industry Oriented Online Training Program On Transmission Scada	23-07-2020 To 12-08-2020
51	Surya Susan Alex	Renewable Energy And Power Electronics For Electric Vehicle Applications	26-05-2021 To 01-06-2021
52	Rabiya Rasheed	Role Of Energy Storage Systems In Microgrid And Electric Vehicles	22-03-2021 To 27-03-2021
53	Rakhee. R	Data Science And ML Using Python	03-08-2020 To 07-08-2020
54	Surumi Hassainar	Solar Energy Conversion Systems: Technologies, Design And Applications	15-02-2021 To 20-02-2021
55	Archana R	Five Day Fdp On Control System Application With Matlab Session	27-07-2020 To 31-07-2020
56	Rinku Scaria	Faculty Development Programme On "Role Of Energy Storage Systems In Microgrid And Electric Vehicles" Organised By Tkm College Of Engineering, Kollam.	22-03-2021 To 27-03-2021

SI No	Name Of Teacher Who Attended	Title Of The Program	Duration (From – To) (Dd-Mm-Yyyy)
57	Soumya Simon	Research Initiatives In Renewable Energy Systems	21-07-2020 To 25-07-2020
58	Veena Wilson	Ten Days Industry Oriented Online Training Program On Transmission Scada	23-07-2020 To 12-08-2020
59	Dr. Parvathy R	Ten Days Industry Oriented Online Training Program On Transmission Scada	23-07-2020 To 12-08-2020
60	Stany E George	Ten Days Industry Oriented Online Training Program On Transmission Scada	23-07-2020 To 12-08-2020
61	Jyothi G K	Ten Days Industry Oriented Online Training Program On Transmission Scada	23-07-2020 To 12-08-2020
62	Rosemin Parackal	“Solar Pv System Design Using Iot (Phase - I)”	03-03-2021 To 09-03-2021
63	Deepa. K	Ten Days Industry Oriented Online Training Program On Transmission Scada	23-07-2020 To 12-08-2020
64	Muhamed Noufal C	Ten Days Industry Oriented Online Training Program On Transmission Scada	20-07-2020 To 29-07-2020
65	Aiswariya Raj	Short Term Training Program On Image Forensics	27-07-2020 To 01-08-2020
66	Ambili A R	Sttp On Advancements In Signal P Rocessing And Artificial I Ntelligence In H E A L T H C A R E	15-02-2021 To 24-02-2021
67	Anoop E G	Fdp On "Design Thinking"	07-09-2020 To 11-09-2020
68	Anu K Kuriakose	Trends And Technologies In Antenna Design And Its Research Scopes	10-08-2020 To 16-08-2020
69	Basil K Jeemon	One Week Aicte Sponsored (Aqis) Short Term Training Programme On Outcome Based Education For Technical Institutions- Phase I	14-10-2020 To 20-10-2020
70	Benoy Abraham	Cyber Security And Blockchain Technology	18-01-2021 To 23-01-2021
71	Bini V K	Sttp - Data Analytics And Machine Learning	03-08-2020 To 08-08-2020
72	Christy Jose	Online Workshop On Universal Human Values	19-10-2020 To 23-10-2020
73	Deepa N R	Five Days Online Faculty Development Programme On Modeling, Simulation And Fabrication Of Future Nano-Electronic Devices And Sensors(Msfns'20)	24-08-2020 To 28-08-2020
74	Dhanya S	Image Forensics	27-07-2020 To 01-08-2020
75	Dr Anil Kumar Mn	Fdp On Innovation And Entrepreneurship	26-02-2021 To 11-03-2021

<b>Sl No</b>	<b>Name Of Teacher Who Attended</b>	<b>Title Of The Program</b>	<b>Duration (From – To) (Dd-Mm-Yyyy)</b>
76	Dr Mini P R	Sttp On Image Forensics	27-07-2020 To 01-08-2020
77	Dr. Krishna Kumar S.	Wearable Devices	11-01-2021 To 15-01-2021
78	Elza George	Paradigm Shift In Assessment And Evaluation Practices For Engineering Graduates	19-10-2020 To 24-10-2020
79	Jeslin P Jo	One Week Fdp On "Recent Trends And Advancements In Information And Technology"	27-07-2020 To 01-08-2020
80	Jilu George	Industrial Training Program On Future Scope Of Engineering In Global Development	27-07-2020 To 01-08-2020
81	Leena Thomas	Fdp-Artificial Intelligence	19-10-2020 To 23-10-2020
82	Manju C P	Sttp - Data Analytics And Machine Learning	03-08-2020 To 08-08-2020
83	Minu Kuriakose	5g Technologies And Iot(Fdp,Teqip)	15-03-2021 To 19-03-2021
84	Neena K A	Sttp On Image Forensics	27-07-2020 To 01-08-2020
85	Nimmy M Philip	Modeling Simulation And Fabrication Of Future Nanoelectronic Devices And Sensors	24-08-2020 To 28-08-2020
86	Nisha R	Iot And Data Science	28-12-2020 To 02-01-2021
87	Noble G	Machine Learning And Optimization(Fdp,Aicte)	22-03-2021 To 27-03-2021
88	Pearlsy P V	Short Term Training Program On Image Forensics	27-07-2020 To 01-08-2020
89	Sheelu Susan Mathews	Wearable Devices	11-01-2021 To 15-01-2021
90	Sreelekshmy S	Recent Trends & Achievements In It	27-07-2020 To 01-08-2020
91	Subha Thomas	The New Normal Post Covid Opportunities In Electronic Industries	27-07-2020 To 01-08-2020
92	Vinitha V	Five Day Hands On Workshop On Analog And Digital Vlsi Design Suing Cadence Tool Suite	03-08-2020 To 07-08-2020
93	Bejoy Varghese	Artificial Intelligence (Atal Fdp)	19-10-2020 To 23-10-2020
94	Ambily John	Fdp On Biomedical Engineering And Its Applications	11-01-2021 To 16-01-2021
95	Anil Johny	Aicte Sponsered Fdp On Data Analytics And Machine Learning	03-08-2020 To 08-08-2020

<b>Sl No</b>	<b>Name Of Teacher Who Attended</b>	<b>Title Of The Program</b>	<b>Duration (From – To) (Dd-Mm-Yyyy)</b>
96	Anila Mathew	Fdp On "Pervasive Industrial Competence"	29-07-2020 To 02-08-2020
97	Beenu Riju	Fdp On Pervasive Industrial Competence	29-07-2020 To 02-08-2020
98	Dr.Anish Mathew	Fdp On Recent Advancements In MI And Ai	02-11-2020 To 06-11-2020
99	Honey Devassy	Aicte Atal Fdp On Data Sciences	12-10-2020 To 16-10-2020
100	Lakshmi Nandaumar	Fdp On Pervasive Industrial Competence	29-07-2020 To 02-08-2020
101	Raji P	Aicte Atal Fdp On Data Sciences	07-09-2020 To 11-09-2020
102	Sheffy Thomas	Fdp On Bio Materials,Bio Devices And Medical Image Processing	13-07-2020 To 17-07-2020
103	Sreevidya P	Aicte Sponsered Fdp On Data Analytics And Machine Learning	03-08-2020 To 08-08-2020
104	Sruthi Bhaskaran	Fdp On Pervasive Industrial Competence	29-07-2020 To 02-08-2020
105	Dr. Dhanya Alex	Fdp In Financial Management And Research	15-02-2021 To 26-02-2021
106	Dr. Jose	Art Of Student Centric Teaching	08-02-2021 To 12-02-2021
107	Ms. Merin	Obe In Management (Aicte Sponsored)	16-11-2020 To 28-11-2020
108	Dr. Delma Thaliyan	Neuroscience Of Learning In Digitized Learning Environment	14-09-2020 To 19-09-2020
109	Anju L	Fdp On Industrial Revolution Of 4.0	13-07- 2020 To 17-07-2020
110	Deepa Mary Mathews	International Fdp On Linux Fundamentals With Cloud And Container Platform	22-07- 2020 To 28-07-2020
111	Joice T	Aicte Sponsored 6 Days Short Term Training Programme On "Data Analytics And Machine Learning Tools"	03-08-2020 To 08-08-2020
112	Jomon M C	One Week Online International Fdp On Recent Trends And Advancements In It	27-07-2020 To 01-08-2020
113	Manju Joy	One Week Sttp On How To Do Research	03-08-2020 To 08-08-2020
114	Nithin Rajan	Introduction To Architecting Smart lot Devices Online Course	05-03-2021 To 26-03-2021
115	Rakhi Venugopal	Fdp On " Learning Management System" Moodle	10-08-2020 To 15-08-2020

SI No	Name Of Teacher Who Attended	Title Of The Program	Duration (From – To) (Dd-Mm-Yyyy)
116	Rose Mary Mathew	Effective Approach To The Essentials Of Research	17-11-2020 To 21-11-2020
117	Santhosh Kottam	Sttp On Data Analytics And Machine Learning Tools Phase Ii	17-08-2020 To 22-08-2020
118	Senu Abi	One Week Online International Fdp On Recent Trends And Advancements In It	27-07-2020 To 01-08-2020
119	Shidha M V	One Week Online International Fdp On Recent Trends And Advancements In It	27-07-2020 To 01-08-2020
120	Sona Mary Louis	Fdp On Industrial Revolution Of 4.0	13-07- 2020 To 17-07-2020
121	Shahna K U	Fdp On Fine Tune Your Research Planning	22-03-2021 To 26-03-2021
122	Dr. C Sheela	Fdp On Coalescence Of Science And Humanities In Engineering	22/2/2021 To 26/2/2021
123	Anisha Joseph	Inculcating Universal Human Values In Technical Education	19-10-2020 To 23-10-2020
124	Antu.P.J.	Mathematics For Data Science	10-08-2020 To 14-08-2020
125	Dhanya T G	Inculcating Universal Human Values In Technical Education	17-10-2020 To 21-10-2020
126	Dr Arun S	Sports Injuries 360 Degrees	04-03-2021 To 14-03-2021
127	Dr. Ayswarya E P	Introduction To Polymer Science	01-09-2020 To 30-11-2020
128	Dr. Sona Narayanan	Coalescence Of Science And Humanities In Engineering	22-02-2021 To 26-02-2021
129	Dr.Binimol Punnoose	Mathematics For Data Science	10-08-2020 To 14-08-2020
130	Eldhose P Jacob	Coalescence Of Science And Humanities In Engineering	22-02-2021 To 26-02-2021
131	Gisha P S	Discrete Mathematics, Graph Theory And Its Application	2020-08-17 To 21/08/2021
132	Honeymol P Chacko	Mathematics For Data Science	2020-08-10 To 14/8/2021
133	Nizamudeen Akbar	Professional Ethics	2020-08-10 To 14/8/2021
134	Nyci Ignatius	Professional Ethics	2020-08-10 To 14/8/2021
135	Prince Joseph	Coalescence Of Science And Humanities In Engineering	2021-02-22 To 26/02/2021
136	Sajana Shamsuddin	Professional Ethics	2020-08-10 To 14/8/2021

SI No	Name Of Teacher Who Attended	Title Of The Program	Duration (From – To) (Dd-Mm-Yyyy)
137	Seena Varghese	Mathematics For Data Science	2020-08-10 To 14/8/2021
138	Sumesh G	Mathematics For Data Science	2020-08-10 To 14/8/2021
139	Thomas Philip	Professional Ethics	2020-08-10 To 14/8/2020
140	Vidya T P	Sustainable Engineering Practices In Agriculture And Automotive Industry	17-05- 2021 To 21/05/21
141	Raju M D	Artificial Inteligence And Machine Learning Theory And Applications	01-02-2021 To 05-02-2021
142	Tom Anto	Recent Advances In Tribology And Surface Engineering	14-09-2020 To 19-09-2020
143	Dr. Rejeesh C. R.	3d Printing & Design	9-11-2020 To 13-11-2020

## FDPs organized

SI No	Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff
1	07-07-2020 to 10-07-2020	4 days online workshop on LaTeX	-
2	28-01-2021 to 28-01-2021	One day online FDP on 'Reference Management Tool - Mendeley'	-
3	20-01-2021 to 21-01-2021	2 day workshop on Python programming.	-
4	23-07-2020 to 12-08-2020	Industry Oriented Online Training Programme on Transmission SCADA	-
5	01-02-2021 to 03-02-2021	International Power and Energy Conference PECon 2021	-
6	21-07-2020 to 23-07-2020	Emerging Trends in Advanced Production and Industrial Engineering	-
7	16-01-2021 to 16-01-2021	Intellectual Property Rights (IPR)	-
8	27-07-2020 to 01-8-2020	FDP on Recent Trends and Advancements in IT	-

9	08-10-2020 to 14-10-2020	Advances in Materials Engineering and Sustainable Manufacturing	-
10	10-05-2021 to 10-05-2021	NSA(Network and System Administration)	-
11	21-06-2021 to 26-06-2021	FDP on construction industry-present and future trends	-
12	25/4/2021	National webinar on intellectual property rights	-
13	16/10/2020 to 17/10/2020	International Webinar on Emerging Trends in the Field of Science and Humanities.	-
14	21-07-2021 to 23-07-2021	KTU Sponsored 3 day emerging trends in Advanced Production and Industrial Engineering	-



## Research and Innovation

### Publications

Title of paper	Name of the author/s	Department of the teacher	Name of journal
Ocean Surface Features Extraction Using Morphological Techniques From Sentinel Data	Dr.Arun Kumar M N	Computer Science And Engineering	Journal Of Remote Sensing & GIS
Load Prediction Using (Dog–Alms) For Resource Allocation Based On Soft Computing Approach In Cloud Computing	Dr. Reshmi R	Computer Science And Engineering	Soft Computing
Comparative Analysis Of Machine Learning Approaches For Early Stage Cervical Spondylosis Detection	Dr. Jestin Joy	Computer Science And Engineering	Journal Of King Saud University - Computer And Information Sciences
Sentiment Analysis Of Product Reviews Using Weighted Distance-Based Whale Optimization Assisted Deep Belief Network	Hema Krishnan	Computer Science And Engineering	International Journal Of Business Information Systems (Inderscience)
A New Approach For Developing Smart Department	Dr. Paul P Mathai	Computer Science And Engineering	International Journal Of Research In Engineering And Science (Ijres)
Sentiment Analysis By Deep Learning Approaches	Sreevidya P	Electronics And Instrumentation Engineering	Telkomnika
Comparison Of Z-N And Pso Based Tuning Methods In The Control Strategy For Prosthetic Limb Application	Anila Mathew	Electronics And Instrumentation Engineering	Journal Of Theoretical And Applied Mechanics, Vol-58, No-4, Pp. 841-851, Warsaw 2020 , Doi: 10.15632/Jtam-PI/125505
A Cascaded Multilevel Inverter Topology Depending Upon A Bidirectional Blocking-Bidirectional-Conducting Switch	Rabiya Rasheed	Electrical And Electronics Engineering	International Journal Of Power And Energy Systems
Determination Of Efficiency Of A Five-Level Multilevel Topology Utilizing A	Rabiya Rasheed	Electrical And Electronics Engineering	International Journal Of Emerging Electric Power Systems

<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Department of the teacher</b>	<b>Name of journal</b>
Single Bidirectional-Blocking-Bidirectional-Conducting Switch			
Improved Thermal Stability Of Boron Treated Coir Mdf Boards	Dr Rejeesh C R	Mechanical Engineering	Journal Of Polymer & Composites
Perceptions Of Service Quality And Behavioural Intentions: A Moderation Effect Of Investment Expertise Of	Dr. Sindhu George	Master Of Busines Administration	Strad Research
Exploring Dependencies Among Corporate Social Responsibility, Attitude Towards Brand And Purchase Intentions	Dr. Dhanya Alex	Master Of Busines Administration	Zeichen Journal Volume 6 Issue 9 2020
A Novel Image Encryption Scheme Using Both Pixel Level And Bit Level Permutation With Chaotic Map	Shahna K U	Master Of Computer Applications	Applied Soft Computing, Elsevier
A Provenance Based Defensive Technique To Determine Malevolent Selective Forwarding Attacks In Multi-Hop Wireless Sensor Networks	Sujesh P Lal	Master Of Computer Applications	Journal Of Ambient Intelligence And Humanized Computing, Springer
An Energy-Efficient Lightweight Security Protocol For Optimal Resource Provenance In Wireless Sensor Networks	Sujesh P Lal	Master Of Computer Applications	Turkish Journal Of Electrical Engineering & Computer Sciences
A Trust Analysis Scheme For Vehicular Networks Within Iot-Oriented Green City	Sujesh P Lal	Master Of Computer Applications	Environmental Technology & Innovation, Elsevier
Soft Set Theory-A Novel Soft Computing Tool For Data Mining	Santhosh Kottam	Master Of Computer Applications	International Journal Of Applied Engineering Research
Soft Set Based Approach For Mining Frequent Itemsets	Santhosh Kottam	Master Of Computer Applications	International Journal On Technical And Physical Problems Of Engineering
Two Classes Of Non Leech Trees	Seena Varghese	Science And Humanities	Electronic Journal Of Graph Theory And Applications
A Study Of Thermo Of Nbr-Rice Husk Ash Composites	Dr. Ayswarya E P	Science And Humanities	Advanced Materials & Applications
Topology Optimization Of Deep Beam Using Ansys	Asha Joseph	Civil Engineering	<i>International Journal Of Scientific Research And Reviews</i>

<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Department of the teacher</b>	<b>Name of journal</b>
Defluoridation Using Adsorption-Zirconium Impregnated Activated Bagasse Carbon	Jawahar Saud S	Civil Engineering	Iosr Journal Of Environmental Science, Toxicology And Food Technology (Iosr-Jestft)
Health Risks Due To Particulate Matter During Covid-19	Jawahar Saud S	Civil Engineering	International Journal Of Innovative Research In Science, Engineering And Technology (Ijirset)
An Enhanced Fusion Based Region Selection For Co-Salient Detection	Dr. Paul P Mathai	Computer Science And Engineering	International Journal Of Advance Research And Innovative Ideas In Education
A Novel Secure And Robust Encryption Scheme For Medical Images	Siyamol Chirakkarottu	Computer Science And Engineering	Current Medical Imaging Reviews
A Machine Learning Based Framework For Assisting Pathologists In Grading And Counting Of Breast Cancer Cells	Dr. Jestin Joy	Computer Science And Engineering	Ict Express
Signtext: A Web-Based Tool For Providing Accessible Text Book Contents For Deaf Learners	Dr. Jestin Joy	Computer Science And Engineering	Universal Access In The Information Society
Optimization Assisted Convolutional Neural Network For Sentiment Analysis With Weighted Holoentropy-Based Features	Hema Krishnan	Computer Science And Engineering	International Journal Of Information Technology & Decision Making
Weighted Holoentropy-Based Features With Optimised Deep Belief Network For Automatic Sentiment Analysis: Reviewing Product Tweets	Hema Krishnan	Computer Science And Engineering	Journal Of Experimental And Theoretical Artificial Intelligence
Deep Learning Based Capsule Neural Network Model For Breast Cancer Diagnosis Using Mammogram Images	Dr. Paul P Mathai	Computer Science And Engineering	Interdisciplinary Sciences: Computational Life Sciences
Deep Learning Approach For Identifying And Classifying Cancer Types Using Bpso And Gan	Prasad J C	Computer Science And Engineering	Turkish Online Journal Of Qualitative Inquiry

<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Department of the teacher</b>	<b>Name of journal</b>
Synthesis And Study Of Evolutionary Optimised Sensor Linearisation With Translinear & Fpga Circuits	Noble G, S.Sundararajan	Electronics And Communication Engineering	International Journal Of Electronics
Investigations Into The Development Of A Mycelium Biocomposite To Substitute Polystyrene In Packaging Applications	Dr Rejeesh C R	Mechanical Engineering	Arabian Journal For Science And Engineering
Synthesis And Third-Order Nonlinear Optical Properties Of Low Band Gap 3,4-Ethylenedioxythiophene-Thiophene Copolymers	Dr. Sona Narayanan	Science And Humanities	Materials Today: Proceedings
A Comparative Study Of Mechanical, Dynamic Mechanical And Thermal Properties Of Rice Husk Ash, Modified Rice Husk Ash And Nano Silica Filled Epoxy Composites	Dr. Ayswarya E P	Science And Humanities	Materials Today: Proceedings

## Books and Chapters

<b>Name of the teacher</b>	<b>Title of the book/chapters published</b>	<b>Title of the paper</b>	<b>Title of the proceedings of the conference</b>	<b>Name of the conference</b>	<b>National / International</b>	<b>Year of publication</b>
Dr. Kavitha P E	Structural Performance of GFRP Deck Strengthened with Light Weight Ultra-High Strength Concrete	Structural Performance of GFRP Deck Strengthened with Light Weight Ultra-High Strength Concrete	Proceedings of SECON2020	SECON 2020	International	Nov 2020

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	Year of publication
Asha Joseph	Analytical study on Dynamic Behaviour of Bolted Beam Column Steel Connection with Reduced Beam Section	Analytical Study on Dynamic Behaviour of Bolted Beam Column Steel Connections with Reduced Beam Sections	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Jawahar Saud S	Assessment of Governance Gaps in Landslide Risk Reduction—A Case Study from Kattippara Panchayath, Kozhikode District	Assessment of Governance Gaps in Landslide Risk Reduction—A Case Study from Kattippara Panchayath, Kozhikode District	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Dr. Asha Joseph	Evaluation of Progressive Collapse Resistance of Steel Moment Resisting Frames	Evaluation of Progressive Collapse Resistance of Steel Moment Resisting Frames	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Dr. Kavitha P E	Editor of Proceedings of SECON 2020	-	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Unni Kartha G	Editor of Proceedings of SECON 2020	-	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Jawahar Saud S	Editor of Proceedings of SECON 2020	-	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Asha Joseph	Evaluation of Progressive collapse resistance of Steel Moment Resisting Frame	Evaluation of Progressive Collapse Resistance of Steel Moment Resisting Frames	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Abin Thomas C A	Performance Evaluation on the Properties of Metakaolin—Fly	Performance Evaluation on the Properties of Metakaolin—Fly	Proceedings of SECON2020	SECON 2020	International	Nov 2020

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	Year of publication
	Ash Based Self Compacting Concrete	Ash Based Self Compacting Concrete				
Resmi K N	Effect of Combination of Mineral Admixtures on the Properties of Self Compacting Concrete	Effect of Combination of Mineral Admixtures on the Properties of Self Compacting Concrete	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Sharon Jacob	Evaluation of Sustainable SMA Mix Prepared Using Recycled Concrete Aggregates	Evaluation of Sustainable SMA Mix Prepared Using Recycled Concrete Aggregates	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Dr. Kavitha P E	Effect of Magnetized Water with Coconut Fibre Reinforced Concrete	Effect of Magnetized Water with Coconut Fibre Reinforced Concrete	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Gayathri Krishnakumar	Seismic Performance of Oblique Columns in High Rise Building	Seismic Performance of Oblique Columns in High Rise Building	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Preethi M	Clogging Resistant Pervious Block	Clogging Resistant Pervious Block	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Beena B R	Development of Metakaolin and Flyash Based Geopolymer Concrete at Ambient Temperature Curing	Development of Metakaolin and Flyash Based Geopolymer Concrete at Ambient Temperature Curing	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Neeraja Nair	Seismic Evaluation of High Rise	Seismic Evaluation of High Rise Buildings Using	Proceedings of SECON2020	SECON 2020	International	Nov 2020

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	Year of publication
	Buildings Using Hybrid Configuration of Grid Systems.	Hybrid Configuration of Grid Systems				
Dr. Asha Joseph	Analytical Study on Dynamic Behaviour of Bolted Beam Column Steel Connections with Reduced Beam Sections	Analytical Study on Dynamic Behaviour of Bolted Beam Column Steel Connections with Reduced Beam Sections	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Gayathri Krishnakumar	Experimental Study of Self-cleaning Concrete by Using Various Photocatalysts	Experimental Study of Self-cleaning Concrete by Using Various Photocatalysts	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Neeraja Nair	Thermo Structural Optimisation Study on Slim Floor Beam with Hollow Core Slabs	Thermo Structural Optimisation Study on Slim Floor Beam with Hollow Core Slabs	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Resmi K N	Experimental Investigation on Packing Density of Concrete Using Wet Packing Method	Experimental Investigation on Packing Density of Concrete Using Wet Packing Method	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Abin Thomas C. A.	Influence of Alkali Resistant Glass Fiber on the Reduction of Plastic Shrinkage Cracking of Self Compacting Concrete	Influence of Alkali Resistant Glass Fiber on the Reduction of Plastic Shrinkage Cracking of Self Compacting Concrete	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Sreerath S.	Study of Fly Ash Based Light Weight Concrete with Plastic Waste Aggregate	Study of Fly Ash Based Light Weight Concrete with Plastic Waste Aggregate as a	Proceedings of SECON2020	SECON 2020	International	Nov 2020

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	Year of publication
	as a Partial Replacement of Coarse Aggregate	Partial Replacement of Coarse Aggregate				
Preethi M	Experimental investigation on the performance of self compacting concrete using copper slag	Experimental Investigation on the Performance of Self Compacting Concrete Using Copper Slag	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Reshma Prasad	Structural Performance of Innovative Multi Cellular Corrugated Steel Column (MCCSC)	Structural Performance of Innovative Multi Cellular Corrugated Steel Column (MCCSC)	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Sreerath S.	Development of Bricks Using Plastic Wastes	Development of Bricks Using Plastic Wastes	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Kavitha P. E.	Modified Magnetized Water Concrete Using Nanosilica	Modified Magnetized Water Concrete Using Nanosilica	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Reshma Prasad	Optimisation of Multistoried Building Using Outrigger System	Optimisation of Multistoried Building Using Outrigger System	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Jiji Antony	Experimental Investigation on Hydrophobic Concrete	Experimental Investigation on Hydrophobic Concrete	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Unni Karthi G	Diagrid Structural System for Tilted Steel Buildings	Diagrid Structural System for Tilted Steel Buildings	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Asha Joseph	Investigation of Bolted Beam– Column Steel Connections with RBS Subjected to Cyclic Loading	Investigation of Bolted Beam– Column Steel Connections with RBS Subjected to Cyclic Loading	Proceedings of SECON2020	SECON 2020	International	Nov 2020
Santhosh Kottam	-	Multi-Soft Set Based Approach	2020 IEEE Advanced	2020 IEEE	International	July 2020



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	Year of publication
		for Rule based Classification Using Sequential Covering Algorithm	Computing and Communication Technologies for High Performance Applications (ACCTHPA)	Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA)		
Dr.Arun Kumar M N	-	Extraction of Layered Information from Satellite Image	National Conference on Recent Trends in Engineering and Technology	National Conference on Recent Trends in Engineering and Technology	National	June 2020
Pankaj Kumar G	-	A Review on visualization based model understanding technique	International colloquium on recent trends in engineering (IC@MACE-2020)	International colloquium on recent trends in engineering (IC@M	International	March 2020

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	Year of publication
				ACE-2020)		
Pankaj Kumar G	-	A Novel Method for Image Steganography with Polynomial Equations	International colloquium on recent trends in engineering (IC@MACE-2020)	International colloquium on recent trends in engineering (IC@MACE-2020)	International	March 2020
Pankaj Kumar G	-	A Survey on Object Recognition Techniques	International colloquium on recent trends in engineering (IC@MACE-2020)	International colloquium on recent trends in engineering (IC@MACE-2020)	International	March 2020
Pankaj Kumar G	-	Checkers Using Reinforcement Learning	the International Colloquium on Recent Trends in Engineering (IC@MACE)-2020	the International Colloquium on Recent Trends in Engineering (IC@MACE)-2020	International	March 2020
Hema Krishnan	-	Survey on Novel Underwater Image	the International Colloquium	the International	International	March 2020

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	Year of publication
		Enhancement Techniques	on Recent Trends in Engineering (IC@MACE)-2020	Colloquium on Recent Trends in Engineering (IC@MACE)-2020		
Hema krishnan	-	A Novel Underwater Image Enhancement Technique using ResNet	Proceedings of the Conference on Information and Communication Technology (CICT), IIITD&M Kancheepuram,	Conference on Information and Communication Technology (CICT), IIITD&M Kancheepuram	International	Dec 2020
Sujesh P Lal	-	Cryptographic Provenance Data Protection in IoT and Multi-hop Wireless Sensor Networks.	ICIRESM – 2020	The International Conference on Intellectual Research in Engineering, Science and Manag	International	07/2020

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	Year of publication
				ement (ICIRESM – 2020)		
Anu.K.Kuriose	-	Pilot Assisted Channel Estimation for MIMO-OFDM over Dispersive Fading Channels	International Conference on Futuristic Technologies in Control Systems & Renewable Energy	International Conference on Futuristic Technologies in Control Systems & Renewable Energy (ICFCR)	International	Sep-20
Anu.K.Kuriose	-	T-Junction Power Divider used 2x2 Printed Patch Antenna Array	International Conference on Futuristic Technologies in Control Systems & Renewable Energy	International Conference on Futuristic Technologies in Control Systems & Renewable Energy (ICFCR)	International	Sep-20
Pearlsy P V	-	A Novel Simplified Approach for Text Line Extraction of Handwritten	<a href="#">2020 Advanced Computing and</a>	Advanced Computing	International	Oct-20

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	Year of publication
		Malayalam Document.	<a href="#">Communication Technologies for High Performance Applications (ACCTHPA)</a>	and Communication Technologies for High-Performance Applications (ACCTHPA)', IEEE, 2020		
Basil K Jeemon	-	Design and Analysis of a Novel Space-Time-Frequency Block Coded Vector OFDM Scheme Robust to Rayleigh Fading	IEEE 17th India Council International Conference (INDICON)', 2020	IEEE 17th India Council International Conference (INDICON)', 2020	International	Dec-20
Honey Devassy	-	Exploiting the non-uniform characteristics of silicon photodiode for vibration monitoring,:DOI: 10.1109/CICT51604.2020.9312092	2020 IEEE 4th Conference on Information and Communication Technology	2020 IEEE 4th Conference on Information and Communication Technology, Indian	International	December 2020

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	Year of publication
				Institute of Information Technology Design and Manufacturing Kancheepuram		
Raji P	-	Real Time Water Contamination Monitor using Cloud, IoT and Embedded Platforms, DOI: 10.1109/ICOSEC49089.2020.9215276.	2020 IEEE International Conference on Smart Electronics and Communication (ICOSEC)	2020 International Conference on Smart Electronics and Communication (ICOSEC), Trichy, India	International	Sep 2020
Anil Johny	-	Optimization of CNN model with hyper parameter tuning for enhancing sturdiness in classification of histopathological images	Second International Conference on IoT, Social, Mobile, Analytics & Cloud in Computational Vision & Bio-	Second International Conference on IoT, Social, Mobile, Analytics & Cloud	International	Oct 2020

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	Year of publication
			Engineering (ISMAC-CVB 2020)	in Computational Vision & Bio-Engineering (ISMAC-CVB 2020)		
Lakshmi Nandakumar,	-	Real Time Water Contamination Monitor using Cloud, IoT and Embedded Platforms, DOI: 10.1109/ICOSEC49089.2020.9215276.	2020 IEEE International Conference on Smart Electronics and Communication (ICOSEC)	2020 International Conference on Smart Electronics and Communication (ICOSEC), Trichy, India	International	Sep 2020
Rinku Scaria	-	Three Phase single stage solar PV integrated UPQC	International Conference in intelligent computing , instrumentation and control technologies	International Conference in intelligent computing , instrumentation and control technologies	International	February 2020

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	Year of publication
Ranjit Joy	-	Investigation of cutting speed recast layer and micro-hardness in angular machining using slant type taper fixture by WEDM of Hastelloy X	Proceedings of International conference on materials and manufacturing methods 3M-2019	International conference on materials and manufacturing methods 3M-2019	International	2020
Harish T M	-	Dissimilar Heat Treated Weldment Analysis of Gas Tungsten Arc Welded Mod -9 Cr -1 Mo (P91) to Incoloy 800 H Advanced Power Plant Materials	2nd Virtual National Advancements in Material Processing Technology (AMPT 2020)	2nd Virtual National Advancements in Material Processing Technology (AMPT 2020)	International	2020
Neenu Johnson	-	A study on the significance of smart IoT sensors and Data science in Digital agriculture	Fifth international conference on advanced computing and communication technologies for high performance applications( ACCTHPA'20)	Fifth international conference on advanced computing and communication technologies for high perfor	International	July 2020



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	Year of publication
				mance applications(A CCTHP A'20)		
Pankaj Kumar G	-	Sustainable and Collaborative Automated Farming Technology with LoRa	National Conference on Electronics, Communication and Computation (NCECC-2020)	Proceedings of National Conference on Electronics, Communication and Computation (NCECC-2020)	National	September 2020
Pankaj Kumar G	-	Interactive Workbook for Effective Virtual Laboratories	International Conference on Information Systems and Management Science	Proceedings of International Conference on Information Systems and Management Science	International	December 2020
Harish T M	-	Development of Al5056/Bagasse ash/SiC ash Hybrid Surface Composite	Materials Today: Proceedings	International Conference on	International	April 2021

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	Year of publication
		through Friction Stir Processing		Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021		
Dr. Paul P Mathai	-	Monitoring Driver's Drowsiness Status at Night Based on Computer Vision	2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)	2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)	International	2021, April
Pankaj Kumar G	-	Application of fuzzy logic in video recommendation system for syllabus driven E-learning platform	International Conference on Computational Sciences-Modelling Computing and Soft Computing (CSMCS 2020)	International Conference on Computational Sciences-Modelling	International	March 2021

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	Year of publication
				Computing and Soft Computing (CSMCS 2020)		
Lidiya P M	-	Traffic Improvement Plan for Perumbavoor Town	Proceedings of Multinational Colloquium in Advances in Technology, Engineering and Computing	Multinational Colloquium in Advances in Technology, Engineering and Computing (ICICE'17)	International	September 2021
Pankaj Kumar G	-	Enhancing effectivity of automated irrigation system using fuzzy logic	INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCES-MODELLING, COMPUTING AND SOFT COMPUTING (CSMCS 2020)	INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCES-MODELLING, COMPUTING AND SOFT COMPUTING	International	March 2021

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	Year of publication
				(CSMCS 2020)		
Dr. Jestin Joy	-	Automatic Information Extraction and Inferencing System from Online News Sources for Substance Abuse Cases	International Semantic Intelligence Conference 2021 (ISIC 2021)	Proceedings of the International Semantic Intelligence Conference 2021 (ISIC 2021)	International	April 2021
Hema Krishnan	-	Machine Learning based Sentiment Analysis of Coronavirus Disease Related Twitter Data	International Conference on Secure Cyber Computing and Communications	Proceedings of the International Conference on Secure Cyber Computing and Communications	International	May 2021
Chethna Joy	-	AI driven automatic detection of bacterial contamination in water : A review	5th International Conference on Intelligent Computing and Control Systems (ICICCS-2021)	Proceedings of the 5th International Conference on Intelligent	International	May 2021

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	Year of publication
				ent Computing and Control Systems (ICICCS -2021)		
Dr. Dhanya Alex	-	<i>Embracing Digitalisation - Exploring the Relationship Between Digital Competence and Self-Efficacy of School Teachers</i>	-	International Conference AUN BE	International	16 April 2021
Dr. Jose varghese	-	<i>Embracing Digitalisation - Exploring the Relationship Between Digital Competence and Self-Efficacy of School Teachers</i>	-	International Conference AUN BE	International	17 April 2021
Ms. Merin thomas	-	<i>Embracing Digitalisation - Exploring the Relationship Between Digital Competence and Self-Efficacy of School Teachers</i>	-	International Conference AUN BE	International	18 April 2021
Dr. Dhanya Alex	-	Sustainability in the Business Models through Circularity - Future of Indian Industry	-	International Management Conference 2021	International	23 - 24 April 2021
Dr. Jose varghese	-	Sustainability in the Business	-	International	International	24 - 24

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	Year of publication
		Models through Circularity - Future of Indian Industry		Management Conference 2022		April 2021
Dr. Dhanya Alex	Dynamics of Culture and Communication at workplace	-	-	-	-	2021
Dr. Dhanya Alex	Hospitality and Tourism - Emerging Practices in Human Resource Management	-	-	-	-	2021
Biji U Nair	An anthology of multi functional perspectives in business and management research	-	-	-	-	2021
Anu.K.Kuriose	-	Novel Approach for ML Detection with Reduced Complexity	International Conference on Advances in Electrical and Computer Technologies 2020 (ICAECT 2020)	International Conference on Advances in Electrical and Computer Technologies 2020 (ICAECT 2020)	International	February 2021
Rabiya Rasheed	-	Evaluation of a Single Inductor based Single Input Dual Output Buck	International Power and Energy Conference, PECon-2021	International Power and Energy	International	1-3 Feb 2021

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	Year of publication
		Converter for DC Micrigrd Applications		Conference, PECon-2021		
Rinku Scaria	-	Particle swarm optimizer based maximum power point controller for the photovoltaic system	6th International Conference on Inventive Computation Technologies (ICICT)	6th International Conference on Inventive Computation Technologies (ICICT)	International	February 2021
Rinku Scaria	-	An advanced approach for an efficient mode of organ transportation	International Conference on sustainable materials, Manufacturing and renewable technologies (i-SMaRT) 2021	International Conference on sustainable materials, Manufacturing and renewable technologies (i-SMaRT) 2021	International	June 2021
Surya Natarajan	-	"Comparitive Analysis of PWM Techniques in Single Phase Boost Switched Capacitor	International Power and Energy Conference, PECon-2021	International Power and Energy Confer	International	1-3 Feb 2021

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	Year of publication
		Based Nine- Level MLI		ence, PECon-2021		
Anila Mathew	-	Modeling of Human Locomotion using the concept of Neural Networks	International Conference on Advancements in Mechanical Engineering (ICAME 2019)	International Conference on Advancements in Mechanical Engineering (ICAME 2019)	International	April 2021
Sreevidya P	-	Lidar Based Lane-Change Assistance For Motor Vehicle	IEEE Xplore	2021 IEEE 7th International Conference on Advanced Computing and Communication Systems	International	June 2021
Sreevidya P	-	Leaf Recognition and Disease Detection using Content based Image Retrieval	IEEE Xplore	2021 IEEE 7th International Conference	International	June 2021



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	Year of publication
				on Advanced Computing and Communication Systems		
Anila Mathew	-	Surface Electromyogram Based Techniques for Upper and Lower Extremity Rehabilitation Therapy - A Comprehensive Review	IEEE Xplore	2021 IEEE 3rd International Conference on Signal Processing and Communication (ICPSC)	International	June 2021
Anila Mathew	-	Artificial neural network model for the characterization of human locomotion parameters	IEEE Xplore	International Conference on Communication, Control and Information Sciences (ICCISc 2021)	International	June 2021

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	Year of publication
Raji P	-	LITERATURE REVIEW ON SLEEP APNEA ANALYSIS BY MACHINE LEARNING ALGORITHMS USING ECG SIGNALS	Journal of Physics: Conference Series	International Conference on Novel Approaches and Developments in Biomedical Engineering-2021 (ICNAD BE 2021)	International	June 2021
Sujesh P Lal	-	Consensus based Data Transfer in Wireless Sensor Network for Reliability Interpretation	EAI - Springer Proceedings	International Conference on Computing, Communication and Control System	International	June-2021
Sujesh P Lal	-	A Comprehensive Review on FPGA based PWM techniques for DC-DC converters	EAI - Springer Proceedings	International Conference on Computing, Communication and	International	June-2021

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	Year of publication
				Control System		
Dr. Sona Narayanan	-	Theoretical and experimental investigations on the photophysical properties of 3,4-ethylenedioxythiophene - quinoxaline copolymers	-	Changing trends in Polymer Science and Technology (CT PST 2021)	National	January-2021
Dr. Sona Narayanan	-	Synthesis and Third-order Nonlinear Optical Properties of Low Band Gap 3,4-ethylenedioxythiophene - thiophene Copolymers	-	International Conference on Sustainable Materials Manufacturing and Renewable Technologies i-SMART 2021	International	April-2021
Dr. Sona Narayanan	-	Optical Limiting Properties of Low Band Gap 3,4-ethylenedioxythiophene - Chalcogenadiazole Copolymers	-	International Conference on Advanced Materials	International	July-2021

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	Year of publication
				IVCAM 2021		
Dr. Ayswarya E P	-	A Comparative study of Mechanical, Dynamic Mechanical and Thermal Properties of Rice husk ash, Modified Rice husk Ash and Nanosilica filled Epoxy Composites	-	International Conference on Sustainable Materials Manufacturing and Renewable Technologies i-SMART 2021	International	April-2021
Dr C Sheela	-	Application of fuzzy logic in video recommendation system for syllabus driven E-learning platform	Application of fuzzy logic in video recommendation system for syllabus driven E-learning platform	-	International	March 2021
Dr. Sunny Kuriakose	-	Fuzzy Rough Approximations: A Novel Approach	-	-	International	May 2021
Merin Cherian	-	Evaluating word embedding models for malayalam	International Conference on Advances in Security and Computing (ICASC21)	International Conference on Advances in Security and Computing	International	July 2021

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	Year of publication
				ting (ICASC21)		
Dr. Sunny Kuriakose	-	Efficiency of Basis Elements and Fuzzy Weighted Graph	-	-	International	2021
Dr. Sunny Kuriakose	-	Image segmentation using fuzzy roughness measure	-	-	international	2021
Dr. Sunny Kuriakose	-	A New Uncertainty Measure and Application to Image Processing	-	-	international	2021
Dr Rejeesh C R	-	Mechanical property evaluation of elephant dung fiber based epoxy composites	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021
Dr Rejeesh C R	-	Development of a novel mycelium bio-composite material to substitute for polystyrene in	Materials Today: Proceedings	International Conference on Sustainable	International	April 2021

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	Year of publication
		packaging applications		materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021		
Dr Rejeesh C R	-	Phase change materials for improved performance and continuous output in stepped solar stills equipped with HDH	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021
Dr Rejeesh C R	-	Investigations into the tribological properties of Titanium-dioxide alumina coated mild steel	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing	International	April 2021

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	Year of publication
				g and Renewable Technologies (i-SMaRT) 2021		
Dr. Jose Cherian	-	Topology optimization of lattice structure on a brake pedal	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021
Dr. Midhun Paul	-	Scheduling of an assembly job shop: A case study based on hydraulic manufacturing industry	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Techno	International	April 2021

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	Year of publication
				logies (i-SMaRT) 2021		
Anoop Sankar	-	Manufacturing of high strength plywood composites reinforced with copper fibers	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021
Arun J Kulangara	-	Topology optimization of lattice structure on a brake pedal	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021



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	Year of publication
Harish T M	-	Development of Al5056/Bagasse ash/SiC ash Hybrid Surface Composite through Friction Stir Processing	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021
Devi Parvathy S	-	Energy Analysis of a Kalina cycle with double turbine and reheating	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021
Sajan S	-	Manufacturing of high strength plywood composites	Materials Today: Proceedings	International Conference	International	April 2021

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	Year of publication
		reinforced with copper fibers		on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021		
Tom Anto	-	Investigations into the tribological properties of Titanium-dioxide alumina coated mild steel	Materials Today: Proceedings	International Conference on Sustainable materials, Manufacturing and Renewable Technologies (i-SMaRT) 2021	International	April 2021
Pankaj Kumar G	-	Machine Learning based Sentiment Analysis of Coronavirus Disease Related Twitter Data	International Conference on Secure Cyber Computing and Communications	Proceedings of the International Conference on	International	May 2021

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	Year of publication
				Secure Cyber Computing and Communications		
Siyamol Chirakkartu	-	Novel Digital image encryption scheme using nonlinear mathematical model	International conference on communication, control and information sciences (ICCISc 2021)	Proceedings of International conference on communication, control and information sciences (ICCISc 2021)	International	June 2021

### Projects/Grants etc

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned
Estimating Landslide Risk Management Index for Nilambur Taluk, Kerala using Analytic Hierarchy Process - A case Study	Mr. JAWAHAR SAUD S	CE	2021	10000
Change Detection of Land Use Land Cover in Puzhakkal river basin	Ms. Rinu J Achison	CE	2021	10000

Recycled Plastic Laminate as a Sustainable Alternative to Wooden Lightweight Flexural Element	Dr. Kavitha P E	CE	2021	10000
Fully Convolutional Networks for Weed Detection	Ms. Merin Cherian	CSE	2021	8000
Artificial Intelligence Technique for Gene Expression by Tumor RNA-Seq Data	Dr. Prasad J C	CSE	2021	10000
Realization of bidirectional DC- DC converters for EV application using wide band gap power devices.	Dr. Surya Susan Alex	EEE	2021	10000
Design and development of a two phase buck converter for low power applications	Dr. Parvathy R	EEE	2021	10000
Design and development of an experimental setup on the study of PV panels	Mr. Muhamed Noufal C	EEE	2021	10000
Contactless UI control for lifts	Ms. Manju C P	ECE	2021	10000
Hospital sanitizing robot	Mr. ANOOP E G	ECE	2021	10000
Face Mask Detection System	Mr. Noble G	ECE	2021	10000
Development of lightweight composite pavement tiles made from recycled Expanded Polystyrene	Dr. Rejeesh C R	ME	2021	10000
Weldment Corrosion Analysis of Austenitic Stainless Steel	Mr. Harish T M	ME	2021	10000
Mapping of soil piping susceptible areas using integrated geophysical approach.	Ms. Panjami K	CE	2021	175000
Investigating the effectiveness of gesture based learning framework for deaf students	Dr. Jestin Joy	CSE	2021	80000
Investigating the accessibility of University websites in the state of Kerala	Dr. Jestin Joy	CSE	2021	5000
Fast Walkthrouh Gateway	Mr. Noble G	ECE	2021	23000
Design and Development of a Low-Cost Home Automation Switch	Mr. Muhamed Noufal C	EEE	2021	15000
Physio-Mechanical characterization of light	Dr. Reejesh C R	ME	2021	30000

weight composite pavement tiles made from recycled expanded polysterene.				
Development of Thiophene based Copolymers for Photovoltaic Applications	Dr. Sona Narayanan	S & H	2021	75000
A novel device for cleaning of cloth sanitary pads integrated with a blood	Ms. Raji P	EIE	2021	25000
Identification of governance gaps in landslide risk reduction: A case study from kozhikode district, Kerala	Mr. Jawahar Saud	CE	2020	10000
Experimental Investigation on Hydrophobic Concrete	Ms. Jiji Antony	CE	2020	10000
Human Cognition Inspired Improved Key Frame Extraction	Mr. Pankaj Kumar G	CSE	2020	10000
Intelligent E-learning Platform With Automatic Multilingual Support and Gamification.	Mr. Pankaj Kumar G	CSE	2020	10000
River Cleaning Robot	Ms.Nimmy M Philip	ECE	2020	10000
Borewell Rescue Robot	Mr. Noble G	ECE	2020	10000
Integrated fire fighting system with array of robots	Ms. Sreevidya P	EIE	2020	10000
Portable UV Torch	Dr. Rejesh C R	ME	2020	17,800
Design of Hybrid solar still with HDH, PCM and PV panel for improved performance and continuous output	Dr. Rejesh C R	ME	2020	10000
Development of novel Mycelium based Bio composite material to substitute polysterene	Dr. Rejesh C R	ME	2020	10000

## **COLLEGE RESEARCH CELL (CRC)**

FISAT College Research Cell was initially established as Interdisciplinary Research Cell in the year 2018 and renamed as College Research Cell in 2021. CRC is committed to promote quality research among faculty members and research scholars. The Cell envisions to provide adequate infrastructure facilities and other support for collaborative research and product development

One of the major activities of cell is **to monitor the research under KTU** and **other universities** so that cell ensure the researchers are carrying out their work according to their research proposal and the research is keeping to time and budget and the work is being conducted ethically.

#### **List of Approved Research Supervisors of KTU**

1. Dr. Arun Kumar M N, Professor, Department of CSE (2018)
2. Dr. Paul P Mathai, Associate Professor, Department of CSE (2021)
3. Dr. Anil Kumar M N, Professor, Department of ECE (2018)
4. Dr. Krishnakumar S, Professor, Department of ECE (2021)
5. Dr. Rejeesh C R, Associate Professor, Department of ME (2020)
6. Dr. Archana R, Professor, Department of EEE (2021)
7. Dr. Parvathy R, Professor, Department of EEE (2021)
8. Dr. Unnikartha G, Professor, Department of CE (2021)
9. Dr. Kavitha P E, Associate Professor, Department of CE (2021)

#### **Research Scholars Registered for Ph.D programme under the guidance of the above listed supervisors (along with other joint supervisor of other university -if any)**

1. Anitha T Nair, Assistant Professor, Department of CSE (Registered for Ph.D under Visvesvaraya Technological University (VTU), Karnataka, under guidance of Dr.Arun Kumar M N and Dr.Anitha M L , Professor, Dept. of CSE, PES college of Engineering, Mandya, Karnataka-57101).
2. Pankaj Kumar G, Assistant Professor, Department of CSE (Registered for Ph.D under Visvesvaraya Technological University (VTU), Karnataka, under guidance of Dr.Arun Kumar M N and Dr.Umesh D R , Professor, Dept. of CSE, PES college of Engineering, Mandya, Karnataka-57101).
3. Hansa J Thattil, Assistant Professor, Department of CSE (Registered for Ph.D in KTU, Kerala, under guidance of Dr.Arun Kumar M N).
4. Neena K A, Assistant Professor, Department of ECE (Registered for Ph.D in KTU, Kerala, under guidance of Dr.Anil Kumar M N).

5. Dhanya S, Assistant Professor, Department of ECE (Registered for Ph.D in KTU, Kerala, under guidance of Dr.Anil Kumar M N).
6. Shanooja, Research Scholar (FULL TIME), Department of ECE (Registered for Ph.D in KTU, Kerala, under guidance of Dr.Anil Kumar M N).

**(A) Paper publications (Year 2021- SCIE Indexed only)**

Research supervisors and scholars published 7 SCIE indexed papers

**(B) Participation of Ph.D Students in technology-driven companies/institutions**

Attended NPTEL courses

Attended Seminars

Attended Workshops

**(C) Attraction of other faculty/scientists for Joint Research Supervision**

1. Dr. Anitha M L, Professor, Dept. of CSE, PES college of Engineering, Mandya, Karnataka-57101

Anitha T Nair, Assistant Professor, Department of CSE (Registered for Ph.D under Visvesvaraya Technological University (VTU), Karnataka, under guidance of Dr.Arun Kumar M N and **Dr.Anitha M L**, Professor, Dept. of CSE, PES college of Engineering, Mandya, Karnataka-57101).

2. Dr. Umesh D R Professor, Dept. of CSE, PES college of Engineering, Mandya, Karnataka-57101

Pankaj Kumar G, Assistant Professor, Department of CSE (Registered for Ph.D under Visvesvaraya Technological University (VTU), Karnataka, under guidance of Dr.Arun Kumar M N and **Dr.Umesh D R**, Professor, Dept. of CSE, PES college of Engineering, Mandya, Karnataka-57101).

**(D) Grants received from Government and non-governmental agencies for research projects, during 2021**

Sl.NO	Name of the Project	Name of the Principal Investigator/ Co-investigator	Amount Sanctioned	Name of the Funding Agency
1	Development of Thiophene based Copolymers for Photovoltaic Applications	Dr. Sona Narayanan	75000	APJKTU Research Seed Money Scheme
2	Investigating the effectiveness of gesture-based learning framework for deaf students	Dr. Jestin Joy	80000	APJKTU Research Seed Money Scheme
3	Mapping of soil piping susceptible areas using integrated geophysical approach.	Panjami K	175000	APJKTU Research Seed Money Scheme
4	Sanitary pad cleaning device	Raji P	25000	Harvard grant through Karunya Institute of Technology and Sciences
5	Fast Walkthrough Gateway	Noble G	23000	APJKTU CERD
6	Design and Development of a Low-Cost Home Automation Switch	Muhamed Noufal C	15000	APJKTU CERD
7	Investigating the accessibility of university websites in the state of Kerala	Dr. Jestin Joy	5000	APJKTU CERD
8	Physio-Mechanical characterization of light weight composite pavement tiles made from recycled expanded polystyrene.	Dr. Rejeesh C R	30000	APJKTU CERD

**(E) Events Organized**

Technical Talk on “An introduction to research”, by Prof. Dr. V. Krishnamoorthy, Department of Management Studies, Kongu Engineering College, Erode, 15<sup>th</sup> March 2021

**(F) Funds received**

Item	Amount
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Research Seed Money	3,30,000/-
KTU Student Project	73,000/-
KSCSTE Student Project	1,28,000/-
KTU Funded FDP	1,88,798/-
AICTE Grant for Organizing Conference	50,000/-
<b>Total</b>	<b>7,69,798/-</b>

### KSCSTE Student Project

S.No	Department	Project	Principal Investigator	Sanctioned Amount
1	CE	Estimating Landslide Risk Management Index for Nilambur Taluk, Kerala using Analytic Hierarchy Process - A case study	Mr. JAWAHAR. SAUD S	10000
2	CE	Change Detection of Land Use Land Cover in Puzhakkal river basin	Ms. Rinu J. Achison	10000
3	CE	Recycled Plastic Laminate as a Sustainable Alternative to Wooden Lightweight Flexural Element	Dr. Kavitha P. E.	10000
4	CSE	Fully Convolutional Networks for Weed Detection	Mrs. Merin. Cherian	10000
5	CSE	Artificial Intelligence Technique for Gene Expression by Tumor RNA-Seq Data	Dr. Prasad. J C	10000
6	EEE	Realization of bidirectional DC-DC converters for EV application using wide band gap power devices.	Dr. Surya Susan. Alex	10000
7	EEE	Design and development of a two-phase buck converter for low power applications	Dr. Parvathy. R	10000
8	EEE	Design and development of an experimental setup on the study of PV panels	Mr. Muhamed Noufal C	10000

9	ECE	Contactless UI control for lifts	Mrs. Manju C. P	10000
10	ECE	Hospital sanitizing robot	Mr. Anoop E G	10000
11	ECE	Face Mask Detection System	Mr. Noble. G	10000
12	ME	Development of lightweight composite pavement tiles made from recycled Expanded Polystyrene	Dr. Rejeesh C.R	10000
13	ME	Weldment Corrosion Analysis of Austenitic Stainless Steel	Mr. Harish T M	10000

### SCIE indexed Publications in 2021

A total of 7 SCIE indexed papers with IF have been published with the affiliation as FISAT

Paper Title	Name of Faculty Member	Department	Journal Name
A machine learning based framework for assisting pathologists in grading and counting of breast cancer cells	Dr. Jestin Joy	CSE	ICT Express
SignText: a web-based tool for providing accessible text book contents for Deaf learners	Dr. Jestin Joy	CSE	Universal Access in the Information Society
Synthesis and study of evolutionary optimised sensor linearisation with translinear & FPGA circuits	Noble G	ECE	International Journal of Electronics
Investigations into the Development of a Mycelium Biocomposite to Substitute Polystyrene in Packaging Applications	Dr Rejeesh C R	ME	Arabian Journal for Science and Engineering
A machine learning based framework for assisting pathologists in grading and counting of breast cancer cells	Dr. Jestin Joy	CSE	ICT Express
SignText: a web-based	Dr. Jestin Joy	CSE	Universal Access in the

tool for providing accessible text book contents for Deaf learners			Information Society
Synthesis and study of evolutionary optimised sensor linearisation with translinear & FPGA circuits	Noble G	ECE	International Journal of Electronics
Investigations into the Development of a Mycelium Biocomposite to Substitute Polystyrene in Packaging Applications	Dr Rejeesh C R	ME	Arabian Journal for Science and Engineering
A machine learning based framework for assisting pathologists in grading and counting of breast cancer cells	Dr. Jestin Joy	CSE	ICT Express
SignText: a web-based tool for providing accessible text book contents for Deaf learners	Dr. Jestin Joy	CSE	Universal Access in the Information Society

**Approved research supervisor of other universities:**

1. Dr Joshua A J, Director, FISAT Business School, Research Supervisor, Bharathiar University, Coimbatore, (2012)

**Extension and Outreach**

**SPARC**

11. FABLAB & INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CELL		
SL. NO	NAME OF THE ACTIVITY	RESOURCE PERSONS

1.	A Community Mobile Medical Clinic, a medical clinic on wheels for the first time in Kerala solely for Geriatric Care, to ensure that appropriate help and support reaches the old aged people on time, right to their homes was partially established. The mini-bus that once served as Mobile Fab-Lab was turned into a Mobile Clinic for this public awareness cause, which could accommodate a doctor, a nurse, and a pharmacist along with the patient being treated with all the required facilities like ECG, BP, Sugar, CPR, Portable X-Ray units, etc. Apart from these, services like telemedicine and video- conferencing were also incorporated to ensure live treatment after consulting with the best doctors in various fields like Cardiology, Neurology, Nephrology, etc.	
2.	IDEA Pitching Competition was conducted on 15-10-2020 and initial screening has been done	
3.	An orientation about Fablab for the representatives was conducted on 3-11-2020 and 10-11-2020	Mr. Tom Anto, Mr. Renjith R
4.	A Talk on " National Education Policy" is scheduled on 0512-2020	Dr. Ravi Kumar K M Principal, SJCIT, Chickabellapur, Karnataka
5.	<p>The Fablab and IEDC team has taken the initiative to start the following projects.</p> <ol style="list-style-type: none"> <li>1. In COVID-19 pandemic situation FABLAB team works on Touch less Employees Attendance System. The development of system is in the initial stage.</li> <li>2. In present situation the traditional class room teaching has been replaced by online teaching. There can be a number of reasons for a learner to have problems with reading in online learning environments. We work on the development of Eye Tracking System for exploring reading performance of online learners.</li> <li>3. Automatic Vegetable recognition weighing machine with multiple features.</li> <li>4. Automated vehicle number detection and monitoring system.</li> </ol>	
<b>ACHIEVEMENTS</b>		
1	Got Band B (Rank between 26th - 50th) in ARIIA 2020, constituted by MHRD, Gov. of India	
2.	The FISAT FABLAB Got 'Top Performer Award' for FAB Challenge 2019-20, constituted b Kerala Start U Mission, Gov. of Kerala	

3.	One of the ideas titled 'Portable UV Torch' selected in the initial screening is funded ( Rs. 17,800/-) by Centre for Advanced Technologies in Disaster Management and Sponsored by Geojith Financial Services Ltd. The Principal Investigator of this project is Dr. Rejeeesh C R, Associate Professor and Co-Investigator is Mr. Nithin H . Student Investigators are Abin James and Flikkson (S7 ME).
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Sl no	Name of the Activity	Resource Person	Date
1	One day online workshop on "Intellectual Property Rights"	Prof. Moses Dayan, Coordinator, PSNA IPR Cell, PSNA CET, Dindigul	16-01-2021
2	Participation in Virtual IEDC summit 2021		28/01/2021 to 30/01/2021
3	Awareness on 'Innovation and Entrepreneurship'	Tom Anto, Raji P, Anoop E G (Innovation ambassadors, FISAT)	09-09-2021
4	Webinar on "Innovation: An optimistic Process of Change"	Dr. (Fr Anthony Puthussery, Former Director, Christ University Bangalore	22-09-2021
5	Impact lecture series 1 :-Webinar on " You Think and You Make it"	Mr. Alex Jolly, Data Analyst, Tranzmeo	02-10-2021
6	Impact lecture series 1:-Webinar on " Journey of Idea to Startup"	Mr.Neeraj P.M. , Co-founder, G"Xtron Innovations	02-10-2021

## Achievements

1	Got Band B (Rank between 26th - 50th) in ARIIA 2020, constituted by MHRD, Gov. of India
2.	The FISAT FABLAB Got 'Top Performer Award' for FAB Challenge 2019-20, constituted b Kerala Start U Mission, Gov. of Kerala
3.	One of the ideas titled 'Portable UV Torch' selected in the initial screening is funded ( Rs.17,800/-) by Centre for Advanced Technologies in Disaster Management and Sponsored by Geojith Financial Services Ltd. The Principal Investigator of this project is Dr. Rejeeesh C R, Associate Professor and Co-Investigator is Mr. Nithin H . Student Investigators are Abin James and Flikkson (S7 ME).
4	Got selected into NISH-CATI Entry level AAC device development project facilitated by APJAKTU Noble G & Tom Anto

5	Inline Directory Bot Renjith R
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## IEEE

The IEEE chapter in FISAT is actively functioning under the charge of Mr Bejoy Varghese, Assistant Professor, ECE Department

## MAJOR ACTIVITIES

S.No	Name of the Event	Name of the resource Person/Guests	Date
1	Channelizing Youth Power to Build the Nation	Mr. Anand Jagadeesh [Software Engineer at DELL EMC]	12-1-2021
2	NOVA-BIVOU 21'	—	16/2/2021-17/2/2021
3	ECTA- BIVOU 21'	Brinda Lovely [Head of Engineering Business Application at Google] and Anoop Sreenivasan [Director, Product Management at Chegg INC]	21/2/2021
4	QUEST-BIVOU 21'	—	28/2/2021
5	TOSS IT	—	3-4-2021
6	POWER PLAY	—	3-4-2021
7	ENERXIA	Varughese C M [CEO, Ever Green Energy Technologies PVT Ltd,]	6-4-2021
8	EPCILON	Bhadra Jayakumar [Student Representative, IEEE Computer Society Kerala Chapter]	28/4/2021
9	Don't Repeat It Challenge	—	7-5-2021
10	Alpha Women	—	7-5-2021
11	Her Rise Her Saga	Sally Varma [Journalism Graduate, Senior Campaigner at Farm Animal Protection Campaign]	8-5-2021
12	Estrella	—	7-5-2021
13	Step Up	Devika S [Alumni of FISAT]	9-5-2021
14	Technophilia	—	11-5-2021

S.No	Name of the Event	Name of the resource Person/Guests	Date
15	Convo	Lt.Seema (RTD)[served at Military Hospital Kirkee, Pune] & Lt Col Vanishree J[serving at 158 Base Hospital Bagdogra, West Bengal]	12-5-2021
16	CACCIA	_	16/5/2021
17	Oracio-SB KNOCKOUT	_	26/5/2021
18	ENERXIA #2	Indukumar P P [Sub Engineer KSEB, Angamaly Division]	22/5/2021
19	Mind Meld-May Edition	_	28/5/2021
20	BHAAVNA-MUDRA	_	31/5/2021
21	PRAVAH-MUDRA	_	31/5/2021
22	PRAJNA-MUDRA	_	1-6-2021
23	Proyek- SB KNOCKOUT	_	3-6-2021
24	RATNA-MUDRA	_	3-6-2021
25	TEJUS-MUDRA	Sthesh Kumar Pai [Deputy General Manager & Head-Electrical, CIAL]	5-6-2021
26	Iniciante	Dharwish Raj [Volunteer at FISAT Free Software Cell]	6-6-2021
27	Codage- SB KNOCKOUT	_	11-6-2021
28	Inauguration of ComSoc Chapter	Ana Garcia Armada [Director of Online Content for IEEE ComSoc], Gopakumar A [Chairman, IEEE ComSoc Kerala Chapter], Dr.Anitha P [Chairman, FISAT]	12-6-2021
29	IEEE Communications Society Membership Development Session	Ruben Abraham Shibu [Kochi Hub Coordinator of IEEE ComSoc Kerala Chapter] & Joyal Jose [Outreach Coordinator of IEEE Comoc Kerala Chapter]	15/6/2021
30	WizCap	_	16/6/2021
31	Proyek 2.0-SB KNOCKOUT	_	19/6/2021
32	ORACIO 2.0-SB KNOCKOUT	_	19/6/2021
33	Codage#2 -SB KNOCKOUT	_	20/6/2021
34	WebDizayn	_	28/6/2021
35	Closing Ceremony of SB KNOCKOUT	Sruthy Sivadas [Playback Singer], Dr.Anitha P [Chairman, FISAT], Dr C	25/6/2021

S.No	Name of the Event	Name of the resource Person/Guests	Date
		Sheela [Principal in charge], FISAT]	
36	Article Writing-GEAR ON	_	20/7/2021
37	Drawing-GEAR ON	_	20/7/2021
38	Recitation-GEAR ON	_	21/7/2021
39	Art From Scrap-GEAR ON	_	21/7/2021
40	Quiz-GEAR ON	_	21/7/2021
41	Optimus	Inker Robotics Company	9-8-2021
42	Imperium Inauguration	Dr.Shay Bahramirad [IEEE PES VP of New Initiative & Outreach], Er Suhair A K [Chair, IEEE PES Kerala Chapter]	12-8-2021
43	Mind Meld-August Edition	_	12-8-2021
44	EPCILON#2	Mr.Ketan Keshav[Software Engineer at KreditBee]	13/8/2021
45	Experto - Imperium	Mr.Prince Philip [Manager, Strategic Products & Quality Management, California ISO], Mr.Shankar Narayanan S [Engineering & Commissioning at Sharjah Electricity & Water Authority], Mr Rakesh Roy[MD Mukkudam Electroenergy Pvt.Ltd], Mr.Nitesh Kumar D [Lead Engineer Power System Consulting team Vestas Technology R&D]	14/8/2021
46	Scientia-Imperium	_	14/8/2021
47	Lumos -Imperium	Abhinav Rajeev [Abhinav Rajeev, Product Manager at DiYGuru]	15/8/2021
48	Prowesa-Imperium	_	16/8/2021
49	Hevitra-Imperium	Innosos Company	17/8/2021
50	SCICON-Talk #1	H C Verma [Ex-Professor of Physics, IIT Kanpur]	22/8/2021
51	SCICON-Talk #2	Aparna P Raj [Alumni FISAT]	23/8/2021
52	Iniciante#2	Radhika Jhunhunwala [Software Development Engineer Informatica]	29/8/2021



S.No	Name of the Event	Name of the resource Person/Guests	Date
53	RAW Chapter 1- DROID 2.0	Dr.Prahlad Vadakkepat [Associate Professor, National University of Singapore, Founder Secretary of FIRA]	1-9-2021
54	RAW Chapter 2- DROID 2.0	Mr Juxi Leitner [Co-Founder & Managing Director, LYRO Robotics]	3-9-2021
55	RAW Chapter 3- DROID 2.0	Robin Tommy [Rapid Lab Head, TCS and Research and Innovations]	4-9-2021
56	RAW Chapter 4- DROID 2.0	Lentin Joseph [Founder & Senior Robotics Software Engineer, Qbotics Labs]	5-9-2021
57	RAW Chapter 5- DROID 2.0	Krishnand Kaipa[Assistant Professor,Old Dominion University]	6-9-2021
58	BlockEncore	Dr.Shiksha Singh[Asst. Prof.Department of Management Studies, IIT(ISM) Dhanbad]	14/9/21&16/9/21
59	Mind Meld-Sept Edition	_	15/9/2021
60	Data Science & Machine Learning	Entri App	17/9/2021
61	Home Automation Workshop-DROID 2.0	Joel George	18/9/2021
62	Innovate   Create   Implement DROID 2.0	Sonu J S [Founder & CEO of Starting Trouble]	18/9/2021
63	Basics of ROS-DROID 2.0	Lentin Joseph [Founder & Senior Robotics Software Engineer, Qbotics Labs]	24/9/2021
64	Building Blocks of Drones	Abraham George M [Founder, Drone Racers Kerala]	25/9/2021
65	Articulo	_	21/9/2021
66	Homecoming	Zacharia Joshy [Programmer Analyst Trainee, Cognizant], Akash Pradeep [Alumni FISAT], Vysakh Rajeev [Software Engineer, People10], Nikhil M Thomas [Techno-Functional Analyst, People10]	20/9/2021
67	TAG-A-TECH	_	30/9/2021

## National Service Scheme (NSS-FISAT)

The NSS Chapter of FISAT is dynamically functioning under the leadership of Mr Sajan S, Asst Professor, Department of Mechanical Engg and Ms Beenu Riju, Asst Professor, Electronics and Instrumentation Engineering

Sl.No	Name Of The Activity	Category Of Programme /Guest/Resource Person
1.	UBA survey for adopted villages (post processing )	Community work
2.	A day with differently abled	Community work
3.	Quarantine Challenge- selfie and book review	Campus programme
4.	Quarantine Challenge- Painting and Drawing	Campus programme
5.	MAPATHON- an initiative of IT mission for marking flood level in a locality	Community work
6.	Quarantine Challenge Photography contest	Campus programme
7.	Quarantine Challenge- Tik tok contest	Campus programme
8.	Dry Day Observation	Campus programme - days observation
9.	DR.APJ ABDUL KALAM memorial Day	Campus programme - days observation
10.	Ozone day observation	Campus programme - days observation
11.	NSS Day celebration	Orientation programme
12.	Engineer's day program	Campus programme - days observation
13.	Vigilance Awareness Week Program	Campus programme - days observation
14.	A children's day Contest Chirikkudukka	Sajan S, Beenu Riju NSS Programme officers, FISAT
15.	Orientation on Sannadh Sena	Chief Guest: Subin Jacob (Director of Jeevana Samridhi) Sarad , Aleena George (Master Trainers Sannadh Sena)
16.	Webinar on Necessity of Pollution Control as the part of National Pollution Control day	M. A Baiju Chief Engineer (Ernakulam Regional office), Kerala Pollution Control Board
17.	“THANAL” birthday tree planting challenge	Mr. Sajan S Ms.Beenu Riju
18.	“OSM (Open street mapping) MASS AWARENESS” Programme	Mr Sreerag V, Programme Officer, Amal Jyothi College of Engineering

19.	SCIENCERA – A National Level Quiz Competition as a Part of National Science Day Celebration which was open for Classes 10, 11 and 12 of students.	Chief Guest Ms. Anitha P, Chairman FISAT. Quiz Masters Mr. Harish T M & Mr. Nizamudheen Akber.
20.	Technical Support for COVID 19 vaccination drive at Mookkannor Primary Health Centre.	Dr. Anuroop, Medical Officer, Mookkannor PHC
21.	A DAY TO REMEMBER” An Orphanage Visit at Azhakam	Mr. Sajan S & Arun J Kulangara
22.	“ONE RUPEE ONE PAD” An awareness campaign in rural areas of Kerala, An initiation by APJ AKTU NSS FISAT unit 104 & 568 in association with Women’s Cell FISAT	Mr. Sajan S Raji P
23.	“VACCINE AWARENESS” An awareness session to FISAT NSS Volunteers	Mr. Sajan S Beenu Riju
24.	“SEVEN DAYS SPECIAL CAMP” for selected volunteers of NSS FISAT	Inaugurated by Dr. Anitha P, Chairman FISAT. Keynote address by Dr. Jai M Paul, Regional Coordinator of APJ AKTU NSS Cell, Indira Gandhi National Award Winner
25.	“HOME ENEGY AUDIT TRAINIG”	Dr. Chikku Abraham, Certified Energy Manger, Bureau of Energy Efficiency, Govt of India.
26.	“SWACHHTA” An Institutional Workshop by Mahatma Gandhi National Council of Rural Education (MGNCRE), Department of Higher Education, Ministry of Education, Government of India in association with IEDC, Nature club of - SWAN and NSS FISAT	Resource Persons: Dr. Dipu Varghese, MGNCRE Dr. Jiji Antony, Professor, FISAT Inaugurated by Dr. George Issac, Principal FISAT
27.	Inauguration of “FISAT Blood Donor’s Cell” & A webinar on the “Importance of Blood Donation”	Inaugurated by Mr. Roji M John, MLA Presidential Address by Dr. Anitha P, Chairman FISAT Resource Person Dr. Vandhana Sudheer, consultant Radiologist, Lourde Hospital
28.	“ANEMIA CONTROL AND PREVENTION” An Awareness Class in association with ICDS Angamaly.	Dr. Megha Thampy, Professor, Dept of Home Science, Morning Star Home Science College, Angamaly
29.	“NATIONAL READING DAY” celebration	Mr. Rajendran Pothanassery Chief Editor, Neeranjal Literacy Cultural Magazine

30.	International Yoga Day Celebration	Dr. Arun S, Asst. Prof. S&H Physical Education, FISAT
31.	“BHOOMI” drawing Competition and quiz as part of Environment Day Celebration	Mr. Sajan S Ms. Beenu Riju
32.	“BHOOMI” Planting a Tree and Making a Cloth Bag- as part of Environment Day Celebration	Mr. Sajan S Ms. Beenu Riju
33.	ENGINEERS AND THE ENVIRONMENT” A webinar in association with Civil Engg Dept, FISAT	Ms. Ananthitha General Manager, ULTRA TECH Environmental Consultancy
34.	“THAALAM” An instrumental competition and music Composition Competition as a part of World Music Day Celebration	Mr. Sajan S Ms. Beenu Riju
35.	“OSM GEO MAPPING” 5 Days Internship in association with KERALA IT MISSION	Ms. Jasmy Maria Joseph. APJ AKTU NSS Cell
36.	NSS Orientation for First year Students	Dr. Jai M Paul, Regional Coordinator of APJ AKTU NSS Cell, Indira Gandhi National Award Winner
37.	Teachers Day Celebration	Mr. Sajan S Ms. Beenu Riju
38.	NSS Day Celebration	Flag Hoisted by Dr. Manoj Kumar, Principal FISAT Message by Dr. C Sheela, Vice Principal, FISAT
39.	Webinar on “AWARENESS OF ALZHEIMER’S”	Resource Person Dr. APARNA M, NHM Medical Officer, Mookkannor PHC Chief Guest Dr. Binimol Ponnuse Prof & HoD S&H FISAT
40.	“BLACK SWAN” A Tech Talk	Er.Nanma Gireesh,Co-Founder NestAbide,Chief Guest: Dr. Jiji Antony Prof & HoD, Civil Dept, FISAT
41.	“FIT INDIA FFREEDOM RUN 2.0” A Campaigning to promote Fitness of people in Association with Nehru Yuva Kendra (NYK) Ernakulam	Flag Off by Dr. Manoj Kumar, Principal FISAT, Message by Dr. Abi Mathew, HoD, E&I FISAT
42.	“A Helping Hand” Food distribution by students as a part of “Gandhi Jayanthi” Celebration	Mr. Sajan S Ms. Beenu Riju
43.	“Quiz Competition” Based on Engineers Day	Mr. Sajan S Ms. Beenu Riju
44.	“Quiz Competition” Based on Ozone Day	Mr. Sajan S

45	“AHIMSA” A Poster Competition as a Part of International Day of Peace and Non-Violence	Nithin H Sreejesh K
46	“IPL PREDICTION 2021” Sept 19 – October 15	
47	“Photography Competition” As a part of World Animal Welfare Day Celebration	Mr. Sajan S Ms.Beenu Riju

### ACHIEVEMENTS

Sl No	Name of the students/Staff	Name of Recognition
1	FISAT	Recognition from Mahatma Gandhi National Council of Rural Education, Hyderabad., Department of Higher Education, Govt of India for "Beat Covid Campaign"
2	25 Students Completed the OSM Geo Mapping Internship	Recognition from APJ AKTU Cell & Kerala IT Mission.
3	FISAT	Recognition for the Technical Support For Covid Vaccination drive at Mookkannoor PHC. With our Support Mookkannoor Panchayath Emerged as One among the 3 panchayaths which completed 100 % Vaccination of First dose.
4	21 Students completed the “FIT INDIA FREEDOM RUN 2.0”	Special Appreciation and Certificate from Nehru Yuva Kendra (NYK) Ernakulam

### WOMENS CELL

Dr Archana R, Professor, EEE Department was the faculty in charge of the Women’s Cell

#### Major Activities

Sl No	Name of the activity	Resource person
1	Webinar- Feminine Health	Dr. Savithri M C, Professor, Department of Pathology, Amala Institute of Medical Sciences, Thrissur

### INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)

An ISTE Chapter is functioning in the institution under the charge of Mr Benoy Abraham, AP, ECE Department and Mr S Sunderarajan, AP, EIE Department.

Sl · N o	Date	Activity Type	Programme	Resource person	Coordinator
1	20/01/2021, 21/01/2021	Workshop	2 day workshop on “Basics of programming in Python”	Mr. Pankaj Kumar. G, Assistant Professor, CSE Dept., FISAT	Benoy Abraham
2	16/09/2021	Webinar	Engineer your life	Dawny Jeswin, Manager (Operations) BPCL Banglore	Ms. Honey Devassy
3	24/09/2021	Talk	Role of ISTE in Engineering Education	Dr.Nidhi, Professor, Mechanical Department, MBCET	Benoy Abraham, Mr S.Sundararajan
4	06/10/2021	Talk	An introduction to flight control systems	Ms.Jithu Priya K, Scientist, Aeronautical Development Agency(ADA), Bangalore	Surya Natarajan

## NATURE CLUB OF FISAT

The Nature Club of FISAT (SWAN) is one of the most active college-based nature clubs in Kerala established in 2002. It is an organization dedicated to promote natural sciences, ecology and conservation of nature. SWAN aims at creating a new generation of youth, that recognizes the importance of preserving nature and creates eco-friendly and green solutions and to facilitate the development of passion for environmental protection, to promote environmental awareness, to spread environment education, in an informal and creative manner in youngsters. The club frequently arranges field trips, nature walks and talks by naturalists. Mr Anoop E G, AP, ECE Department, Ms Jeslin P Jo, AP, ECE Department are in charge of the club

### Activities during the Academic Year 2020-2021

1. Beat Covid Campaign- 27<sup>th</sup> July 2021 (recognized as a member of Beat Covid Campaign initiative of Mahatma Gandhi National Council of Rural Education, Hyderabad)
2. Online institutional workshop on Swachhta on 29th April 2021 (Dr. Dipu Varghese from MGNCRE)
3. VAIGA - AGRI HACK (Kerala Largest Agricultural Hackathon)  
Team REVEAL - Reshma R, S Haridev Sankar, Derin T Jose, John Paul and Amrutha M of S5 EIE has won **second prize** with cash award of Rs. **75,000/-**
1. Projects done by students to provide a clean and smart campus for the last one year SWAN under the guide ship of all the departments encouraged the students to work

on projects and ideas that can be used to make our campus smart as well as a clean, environment friendly campus.

Few of them are listed below.

- a) Miniaturized vertical pro-farm (VAIGA Agri Hack 2021- Runner-up)
- b) IoT based micro environment monitoring and management system for greenhouses. (VAIGA Agri Hack 2021- Finalist)
- c) Design And Fabrication of Incinerator
- d) Design and Implementation of Waste Plastic Filament Extrusion Machine for Recycling of LDPE and failed 3D prints
- e) Waste Picking Robot
- f) A Real Time Water Quality Monitoring System
- g)** Contactless IR Thermometer
- h) Detection of polluted air.
- i) SprayBee