



About us...

The Department of Electronics and Communication Engineering was established during the inception of the institute in the year 2002. The department has an annual intake of 120 students for the B. Tech. course and 12 students for the M.Tech. course. The department has well experienced and dedicated faculty members and aims to impart sound knowledge and awareness of the latest developments in the field of Electronics and Communication Engineering.



### VISION

To emerge as a centre of excellence in Electronics and Communication Engineering churning out informed, innovative, socially committed and quality conscious engineers for the society.

### MISSION

- ❖ Foster an environment for multifaceted education rooted in science and contemporary technology
- ❖ Facilitate quality research and development leading to innovations in the field of Electronics and Communication Engineering
- ❖ Develop competent young engineers to complement the virtues of the society

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### PROGRAM SPECIFIC OUTCOMES

After the successful completion of the course, students of the Electronics and Communication Engineering Program will have:

- ◆ The ability to apply the fundamental knowledge of Electronics and Communication Engineering to analyze, design and develop various types of electronic systems.
- ◆ Competence in using modern hardware and software tools for developing solutions to engineering problems.
- ◆ Excellent adaptability to the changing industrial and real world requirements.

### PROGRAM EDUCATIONAL OBJECTIVES

- ◆ Graduates of the program will have the technical expertise to analyze and design hardware and software components of electronic systems, benefiting industry and society.
- ◆ Graduates of the program will be able to exhibit excellence in the field of Electronics and Communication Engineering and contribute significantly in research and development, enterprise and leadership.
- ◆ Graduates of the program will be successful, ethically driven professionals with a passion for continuous learning.



**Mr. Shimith P R**  
*Chairman, FISAT*

It is a matter of great pride that the department of Electronics and Communication Engineering is releasing the 6<sup>th</sup> edition of their newsletter ELECTRONICA. This newsletter provides a comprehensive overview of the department's curricular, co-curricular, and extracurricular activities and accomplishments throughout the academic year. FISAT is devoted to providing holistic education to all of our students. The department of ECE has, by providing high-quality technical education and training, succeeded in preparing our young engineers to face the challenges of ever-increasing competition with confidence and competence. On this occasion, I also extend my good wishes to the staff and students of the department for their future endeavors.



**Dr. George Issac**  
*Principal, FISAT*

It is a matter of immense pleasure and happiness for me to see yet another edition of ELECTRONICA-Newsletter from Department of ECE-Volume No.6. The Department has constantly strived assiduously to bring out the best in all that they do. Technical Exhibitions. Tremendous efforts taken by the faculty to provide flawless education at the finest level even in this pandemic situation calls for heavy acclamation. I would like to extend my commendations to the team behind ELECTRONICA for their astounding effort in turning this to a reality.



**Dr. C Sheela**  
*Vice-Principal, FISAT*

A journey of unending enthusiasm and perpetual endeavor at its zenith has been the trademark of the Department of ECE, FISAT since its inception in the year 2002. The department shows keen interest in delivering course contents to students meticulously, identifying slow learners and mould them into better learners through tedious efforts. No wonder why the Department has bagged numerous laurels in academic and co-curricular events. I extend my sincere wishes to the Department, to continue the stride in its full vigor and to be transpired as the best.



**Dr. Mini P R**  
*(Dean, Academics)*

I am extremely happy that the department of Electronics and Communication Engineering is bringing out yet another edition of its newsletter Electronica. In spite of the challenges thrown up by the pandemic, the faculty of the department have been busy providing meaningful learning opportunities to support our students to ensure that they remain connected and have access to high quality learning resources. The ECE department has played a great role in upholding the high standards of FISAT with an absolute commitment to improving the educational process and this newsletter is a reflection of its journey to excellence. I congratulate the entire staff and students of the department for their achievements and also extend my appreciation to the editorial team for their dedicated efforts to bring out this newsletter.

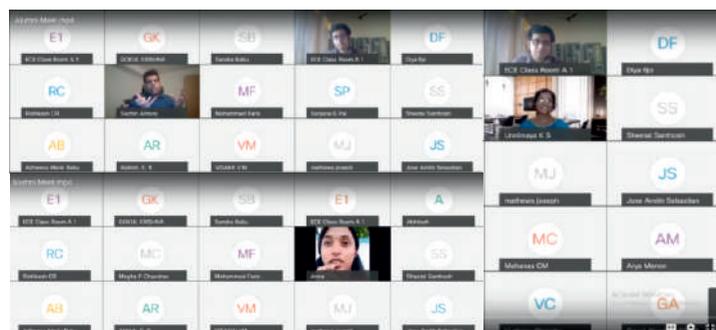


**Dr. Anil Kumar M N**  
HOD, Dept of ECE

Department of ECE, FISAT is one of the pioneering departments of the Institute. From my short acquaintance as HoD with the team, I always felt the passion, rhythm and urge to lead the show, unleashing an unending command. Various ventures of the Department like ECHO, Hobby club, Nautilus, Electronica etc always drew attention and is a paradigm for amalgamation. The keen interest taken by faculty in curricular and co-curricular activities is highly praiseworthy. Looking forward to further interesting events from the Department, I extend whole hearted wishes to ELECTRONICA– Volume VI and the full crew behind it.

## ALUMNI INTERACTION FOR FIRST YEAR STUDENTS

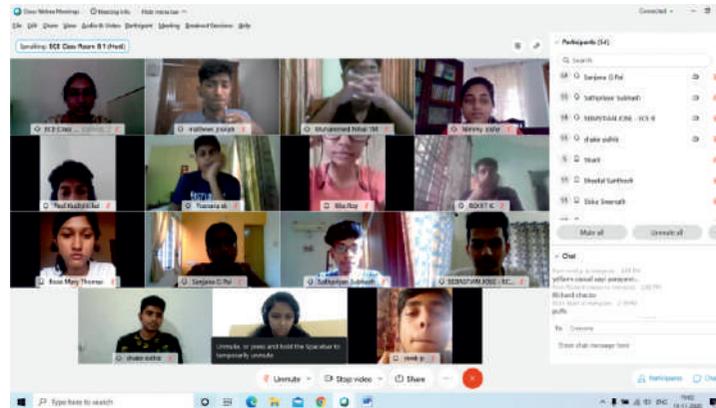
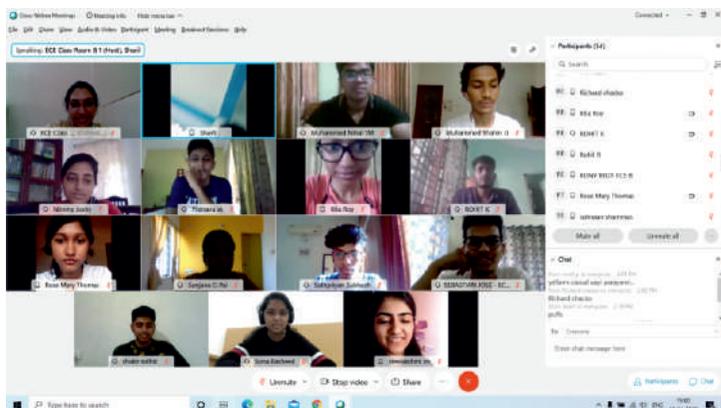
Interaction of first-year students of 2020 admission with Alumni was conducted on 19th Nov, 2020 (Thursday). Students interacted with Mr. Sachin Antony (2015 passout) working as Software development engineer in Criterio labs, Michigan, US. He motivated students to pursue their studies seriously and also the importance of extra curricular activities. Mr. Sachin Antony was the student secretary of the department association during the academic year 2014-15.



Students interacted with Ms. Unnimaya K S, who is working as Analog layout design engineer in Cadence. Cadence is a core company of ECE course, which is among the fortune 500 companies in the world. Unnimaya was also the best outgoing student for the 2016-20 batch. She inspired students to work hard for placements and the importance of studying core subjects.

Students had an active session with Ms. Anna Pavianose working as FPGA Engineer in VVDN Technologies, Kochi. VVDN is also a core company of ECE. Anna interacted with students and made them aware of the opportunities in the core areas of Electronics. She also shared a glimpse of her college life in FISAT.

## SELF INTRODUCTION BY FIRST YEAR STUDENTS ON INDUCTION DAY





## ELECTRONICS AND COMMUNICATION HEURISTICS ORGANIZATION (ECHO)

ECHO (Electronics & Communication Heuristics Organization) is the association of students and staff members of the Department of Electronics & Communication Engineering (ECE), Federal Institute of Science and Technology. All the staff and students of the ECE department are members of this Departmental Association. It was launched in 2004. The objective of this association is to foster environments for holistic development of the students and encourage them in self-learning. This academic year also ECHO has served its purpose and various programs were organized for the students.



**Basil K Jeemon**  
Staff-in-Charge, ECHO

### Electronics And Communication Heuristic Organization (ECHO) Annual Report

ECHO serves as a forum for technical discussions and has been actively organizing various technical events and competitions every year. This association focus at enhancing the technical knowledge of students by conducting various programs like expert lectures, workshops, seminars, industrial visits, intra & inter department technical competitions and in bringing out the passion, intelligence and creativity in them for bridging the gap between Academics & Industry. It also helps to create the ability to understand and effectively communicate engineering and related concepts, nurture entrepreneurship and leadership qualities to enhance their roles in providing service to the society.

ECHO encourages more students to conduct & coordinate workshops, social events, expert lectures and soft skills development activities, provides a platform to conduct training, hands-on workshops and support students with innovative ideas, that will enhance their experience and become more prepared to face the future work challenges. Also this organization will work to promote a positive relationship among students, faculty and staff. It helps the enhancement of social, managerial & technical skills of students and creates an environment that promotes creativity in form of innovative ideas & projects.

During the academic year 2020-21, the activities of ECHO were shifted to online mode due to COVID restrictions. This year saw most of the programmes moving to digital platforms. The activities started with Agnitio2K20, the Final year Project exhibition. All the events associated with the Agnitio2K20 were conducted in online mode. The Honorable Chairman of FISAT Mrs Anitha P inaugurated the event. Best outgoing student and Hima memorial endowment were announced on that day. Ms Unnimaya K P of 2016 admission secured the Best Outgoing student award. Ms Nanda K R of 2017 admission year and Ms. Santhwana T of 2018 admission were awarded the Hima Memorial Endowments.

An overview of the activities organized by ECHO during the last academic year is presented below.

Consolidated list of events conducted by ECHO (Association of ECE) for the academic year 2020-21						
Sl No	Name of the event	Type of event	Resource person	Date (dd-mm-yyyy)	Intended audience	Venue/mod e
1	Agnitio 2K20	Final Year Project Exhibition	Nil	16-07-2020	All students of ECE	Google meet
2	Artificial Intelligence by Lurre.AI	ECHO Webinar Series 2K20	Mr. B Krishnakumar, CEO, Lurre.ai	15-07-2020	All Staff and students of ECE	Google meet
3	Webinar on Introduction to HDL and Programmable Logic	ECHO Webinar Series 2K20	Aravind K Jayan, Engineer (LW), DCT-Kochi	18-07-2020	All Staff and students of ECE	Google meet
4	Digital web marketing	ECHO Webinar Series 2K20	Mr. Sabarish Chokkalingom Digital Marketing Solution Architect, Accenture, Melbourne, Australia	22-07-2020	All Staff and students of ECE	Google meet
5	Scope of VLSI and Timing Analysis	ECHO Webinar Series 2K20	Ms. Anna Pavianose FPGA Engineer, VVDN Technologies, Kochi	25-07-2020	All Staff and students of ECE	Google meet
6	Basics of Analog Layout Design	ECHO Webinar Series 2K20	Mr. Cecil M Xavier, Design Engineer, CADENCE Design Systems, Bangalore	25-07-2020	All Staff and students of ECE	Google meet
7	Embedded System Design Hardware Perspective	ECHO Webinar Series 2K20	Mr. CHRISTINO JACOB, Sr.Engineer (HW), VVDN Technologies, Kochi	30-07-2020	All Staff and students of ECE	Google meet
8	Introduction to Embedded Software and Bootup	ECHO Webinar Series 2K20	Procedure in an Embedded System by Mr. ALBIN ROBIN, Design Engineer (SW) DCT, Kochi	30-07-2020	All Staff and students of ECE	Google meet
9	5G NR: The Next Generation Wireless Access Technology	ECHO Webinar Series 2K20	Dr. Sreejith T V, Assistant Professor, Dept of Electrical Engineering and Computer Science, IIT Bhilai.	8-07-2020	All Staff and students of ECE	Google meet

10	Channelizing Youth Power to Build the Nation	Invited Talk on National Youth day	Mr. Anand J, Software Engineer, Dell EMC, Bangalore	12-01-2021	All students of ECE	Google meet
11	Techxido 20	Design Project exhibition	1. Hrishikesh Dilip, Senior Embedded software engineer, VVDN Technologies 2. Aravind K Jayan, Engineer, Digital Core Technologies.	05-02-2021	All students of ECE	Webex
12	Phototronics 2021	Photography competition	1. Novel Vindhyan, Assistant director, Film industry	11-04-2021	All students of ECE	Department facebook page
13	What after B.Tech	Webinar	1. Aswin P Chandran, Founder director of Edzumo Pvt Ltd, Director of CGP Career Avenues	18-05-21	All students of ECE	Webex
14	Talk on Iron dome	Poster presentation	1. Rita Roy, Student, S2 ECE B (2020 admission)	29-05-21	All students of ECE	Webex
15	Scope of the semiconductor industry - Talk 1	Add on course based Technical talk Course name: Industrial oriented Semi custom layout design using Cadence and Microwind tool	1. Anfy Francis, Senior Lead Engineer, Cerium Systems, Tech Mahindra, Bangalore	28-05-21	Final year students of ECE	Google meet
16	Scope of semiconductor industry - Talk 2	Add on course based Technical talk Course name: Industrial oriented Semi custom layout design using Cadence and Microwind tool	1. Dr. Avinash Yadlapati, Senior director-Engineering, Mirafra Technologies, Hyderabad	02-06-21	Final year students of ECE	Google meet
17	Evolution of computer hardware and operating systems	Technical talk based on the subject : EST 102 - Programming in C	1. Mr. Jitesh V, Manager (Network administration) & Technical Head, FISAT	12-06-21	1st year students of ECE	Webex
18	Career opportunities in VLSI for freshers	Webinar based on the subject : EC304- VLSI	1. Ms. Ponni Mohanakumari, Manager- Training and Development, CIENTRA Tech Solutions, Bangalore	03-07-21	3rd year students of ECE	Google meet

19	Agnitio 2k21	Main project exhibition	1. Hrishikesh Dilip, Senior Embedded software engineer, VVDN Technologies 2. Aravind K Jayan, Engineer, Digital Core Technologies	13-07-21	All students of ECE	Webex
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## AGNITIO 2K20

The Department of ECE hosted the annual Project Exhibition- AGNITIO 2K20 in virtual mode on 16th July 2020. It showcased the main projects of final year students. The event also witnessed the signing of an MOU between Luure.ai, Technopark, Trivandrum and the department. The Chairman of FISAT, Dr. Anitha P inaugurated the event and delivered her message to the outgoing students. The event was felicitated by Dr. George Issac (Principal), Dr. C Sheela (Vice Principal), Dr. Sunny Kuriakose (Dean, Academic & Administration), Dr Mini P R (HoD, ECE) and Mr. Anoop E G (Staff in charge, ECHO). The winners of the award for the best outgoing student and the Hima Memorial Endowment awards were also announced.

## ECHO webinar series 2K20:

Electronics and Communication Heuristic Organization (ECHO) along with the support from Department of Electronics And Communication Engineering, FISAT organized ECHO webinar series from 15th July to 8th August 2020. The sessions are targeted towards faculty members & students of ECE. Each webinar aimed to address the latest technologies used in industries. The ECHO webinar series was held in 8 sessions. Over seven hundred participants, including students and faculty members of FISAT and other leading engineering colleges of Kerala, participated in the webinar series. Dr. Anitha. P, Chairman, FISAT on July 15, 2020, virtually inaugurated the ECHO webinar series as the Chief Guest. The Webinar series discussed the following topics:

Sl. No	Name of Webinar	Date	Number of students attended
1	Artificial Intelligence by Mr. B Krishnakumar, CEO, Lurre.ai	15 <sup>th</sup> July 2020	59
2	Webinar on Introduction to HDL and Programmable Logic by Aravind K Jayan, Engineer (LW), DCT-Kochi	18th July 2020	94
3	Digital web marketing Mr. Sabarish Chokkalingom, Digital Marketing Solution Architect, Accenture, Melbourne, Australia	22nd July 2020	81
4	Scope of VLSI and Timing Analysis by Ms. Anna Pavianose, FPGA Engineer, VVDN Technologies, Kochi	25th July 2020	95
5	Basics of Analog Layout Design by Mr. Cecil M Xavier, Design Engineer, CADENCE Design Systems, Bangalore	28th July 2020	97
6	Embedded System Design Hardware Perspective by Mr. Christino Jacob, Sr.Engineer (HW), VVDN Technologies, Kochi.	30th July 2020	97
7	Introduction to Embedded Software and Boot Up Procedure in an Embedded System by Mr. Albin Robin, Design Engineer (SW) DCT, Kochi.	30th July 2020	90
8	5G NR: The Next Generation Wireless Access Technology" by Dr. Sreejith T V, Assistant Professor, Dept of Electrical Engineering and Computer Science, IIT Bhilai.	8th July 2020	105

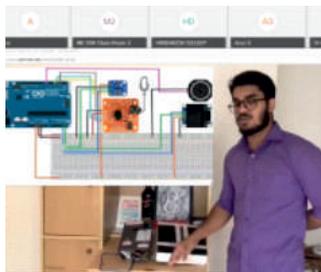
## Talk on 'Channelizing Youth Power to Build the Nation Talk'

Electronics and Communication Heuristics Organization (ECHO) in association with IEEE FISAT SB organized a webinar on the topic 'Channelizing Youth Power to Build the Nation' as part of National Youth Day on 12<sup>th</sup> Jan 2021. The Resource Person was Mr Anand Jagadeesh, Secretary, IEEE CS Bangalore Chapter, Software Engineer, DELL EMC 2016 REM Scholar. He discussed his life experience as a youth and also talked about the contributions that young people could make to build the nation.



## TECHXIDO '20: Virtual Design Project Expo

Inauguration of ECHO (Electronics and Communication Heuristics Organization- the student organisation of ECE) activities and TECHXIDO '20 (the design project expo for students of the third year) was conducted on February 5<sup>th</sup>, 2021. Dr George Issac, Principal, FISAT, inaugurated the event and Dr Sunny Kuriakose, Dean, Academic and Administration offered felicitations. 25 design projects were exhibited. The judging panel consisted of two industry experts: Hrishikesh Dilip, Senior Embedded software engineer at VVDN Technologies, and Aravind K Jayan, Engineer at Digital Core Technologies. The best design project was won by Job Sajan John, Kiran Jayaram, Roshith Roy, and Sharath K of S5 ECE B for the project 'Contactless UI for lifts'. The award for the most popular project was based on the number of views received by the video of the project demonstration. This award was won by Ayana Sunny, Fameela V A, and Farhana Mohamed C of S5 ECE A for the project 'Human temperature detector at



doorbell'. Design projects can be accessed from the link: <http://fisat.ac.in/pages/techxido-20>.

## Phototronics 2021

Phototronics 2021 is a photography competition conducted by the ECHO on the 11<sup>th</sup> of April, 2021 for the students of the ECE department. The resource person for the event was Novel Vindhyan, Assistant director, Film industry. The theme for students of 1<sup>st</sup> and 2<sup>nd</sup> year was 'Food'. The Theme for 3<sup>rd</sup> and 4<sup>th</sup> year was 'Wisdom'. The events saw a good participation from the students. Certificates were awarded to the winners in the 2 categories.

### Results:

Position	Category 1	Category 2
1	<b>Niveditha Mathew</b> S4 ECE B (2019 admn)	<b>Nandini K S</b> S6 ECE B (2018 admn)
		<b>Joseph Paul</b> S6 ECE B (2018 admn)
2	<b>Sachit Sebastian</b> S4 ECE B	<b>Linto Thomas</b> S6 ECE B (2018 admn)



Submitted by  
Nandini K Sanilkumar,  
S6 ECE B



Submitted by  
Niveditha Mathew  
S3 ECE B



Submitted by Joseph Paul S6 ECE B

## Webinar on “What after B.Tech?”

A Webinar on the topic 'Opportunities for higher studies after B.Tech' was organised jointly by ECHO (Association of ECE) and IDEA (Association of EIE) on 18<sup>th</sup> May, 2021. Various opportunities after the B.Tech course such as 'Job & Internship Opportunities', 'Exam pattern of Central & State Govt jobs', 'Scope of GATE', 'Higher studies options in India' etc were discussed. The resource person was Mr. Aswin Chandran, Founder Director of 'Edzumo Pvt. Ltd' and Director of 'CGP career avenues'. The event had a participation of around 70 students.

## Talk on Iron dome: Poster presentation

ECE department in association with ECHO organized a Poster Presentation, which was done by Rita Roy, S2 ECE B (2020 admission) on the topic “Iron Dome defense system”. This event was conducted on 29-05-21 (saturday) at 3 PM. The event witnessed the participation of over 47 students. It was conducted online in webex platform. The poster presentation was concise and to the point. It was very informative and all listeners benefited from it. This was the first presentation among the poster presentation series planned.



## Talk on Scope of the semiconductor industry

The department of ECE in association with ECHO presented a talk on “Scope of semiconductor industry” based on the add on course “Industry oriented semi-custom layout design using microwind and cadence” for final year students on 2 days. Anfy Francis, Senior Lead Engineer, Cerium Systems, Tech Mahindra, Bangalore and Dr. Avinash Yadlapati, Senior director- Engineering, Mirafra Technologies, Hyderabad handled the sessions. The talk was very informative and encouraged students to work forward to core of ECE. Students came to know about opportunities in the field of VLSI.

## Technical talk based on the subject EST 102 - Programming in C :

Evolution of computer hardware and operating systems:

A technical talk on “EVOLUTION OF COMPUTER HARDWARE AND OPERATING SYSTEMS” was conducted on 12-06-2021. This talk was conducted as part of the subject “EST102 PROGRAMMING IN C”. This was organised by the Department of Electronics and Communication Engineering in association with ECHO. The talk was arranged by the faculty handling the S2 subject “EST102 PROGRAMMING IN C” for the academic year 2020-2021. The program was focussed for the students in S2 of all Engineering Departments. The talk was given by Mr. Jitesh V, Manager (Network Administration and Technical Head), FISAT. The second part of the talk inculcated good information about the operating systems. The second part started by giving idea about the evolution of the different operating systems and its advantages. It also gave information about the open source platforms. Finally the talk covered the importance of the open source platform. The speaker also explained the basic command of Linux. The talk also had an interactive session. The students raised some doubts about the compilers and the operating systems in the interactive sessions and it was well answered by the speaker. Almost 120 students participated in the programme.

## Webinar on Career opportunities in VLSI for freshers

A webinar on Career opportunities in VLSI for freshers was organised on July 3<sup>rd</sup> 2021, from 11.00 am to 11.45am. This session was organised by Ms. Vinitha .V on behalf of the subject EC304 VLSI. It was aimed to give the students an industrial perspective of VLSI. The webinar was targeted students studying in 3<sup>rd</sup> year, final year and M Tech in VLSI & ES. The resource person was Ms. Ponni Mohanakumari, Manager -Training and Development, CIENTRA Solutions, Bangalore. The resource person discussed VLSI design flow and conversed details about the job possibilities in each field. She gave an idea about the core subjects to be concentrated to enter in to VLSI stream. The session was attended by 39 students both from Btech and Mtech. Faculty member of ECE Dept also attended the session. The session was concluded by feedback and a few queries from students.

## Agnitio 2K21

AGNITIO Virtual Project Expo for the year 2021 was held on 13<sup>th</sup> July 2021 conducted by the Department of Electronics and Communication Engineering in association with ECHO. The meeting began with the prayer by Ms Reshma R Pillai of S8 ECE followed by a Welcome address by Mr Basil K Jeemon (staff in charge of ECHO ). The inaugural address was delivered by Dr Manoj George, principal of FISAT in which he appreciated the ECE department for conducting project expo even in online mode. Other honorable dignitaries were Dr C Sheela, Vice Principal of FISAT and Dr Mini P R, Dean of academics delivered the felicitation in which they have pointed out the successful results of S7 ECE and also appreciated the teachers and students for the exemplary efforts they have put to make the department more proud. The special guests of the event were Hrishikesh Dilip, Senior Embedded software engineer at VVDN Technologies and Aravind K Jayan, Engineer at Digital Core Technologies. They were the two industry experts who evaluated the students' projects. Also, they have given a project briefing on areas and how the students could improve their projects for the future. The winners of the award for the best outgoing student and the Hima Memorial Endowment awards were also announced on the day. Hima Memorial Endowment award winners were R Aishwarya of S4 ECE and Ajith James of S6 ECE. The Best Project Award title was ' Door Dodge System' and the team members are Aiswarya S Menon, Dilna K Pappachan, Amala Biju, Bina Manjali. The most popular project award was given to the project with maximum views on social media. The project titled 'Tele Melanoma Detection' was selected and the team members were Reshma R Pillai, Rajalakshmi A R, Nanda K R, Megha P S.

### Report on Value Education Class conducted for 2020 Admission ECE batch

Date of Program: 20/11/2020

Sessions handled by:

1. Aiswarya Raj, Assistant Professor, ECE Dept. , FISAT
2. Christy Jose, Assistant Professor, ECE Dept. , FISAT
3. Dhanya S., Assistant Professor, ECE Dept. , FISAT

Objective of the Course:

The main objective of the course is to enable students to Explore their Aspirations and Concerns. It also aims to make them understand about the Basic Human Aspirations and their Fulfilment.

Course Outcome:

At the end of the course students will be able to:

1. Self-explore themselves.
2. Explore Right understanding, relationship with human being and physical facility.

Report:

The session on Universal Human Values was conducted for 2020 admission ECE students on 20/11/2020 in online mode. The sessions were handled by Aiswarya Raj, Christy Jose and Dhanya S. of ECE department. The students were made understand about the basic human aspirations. They were made to self-explore themselves. Students were asked to share their ideas in each topics and polls were taken in between to make the session more interactive.

The main topics that were discussed throughout the session were about basic human aspirations and concerns. Students were made to explore themselves that all their present effort is finally to make them happy and prosperous. They were made to think about the steps followed by them towards their basic aspiration. They were made to think about the status of a mix of satisfaction and dis-satisfaction if their aspiration is vague.

Students were made to understand the difference between happy and prosperous. They were made to self-explore if there is a gap between between their aspiration and their state of being. They tried to analyse themselves the time and effort they are investing for physical facility and for fulfillment in relationship. They were made to understand that for animals physical facility is necessary as well as adequate but for human being physical facility is necessary but not adequate. The proposal given to students was that “The basic issue is lack of right understanding”.

## MoU

Mou with Luure.ai

Luure.ai, is an LLP company incorporated under Govt of India and having Corporate offices at 5<sup>th</sup> floor Amstor building, Technopark, Trivandrum-695581 and 1<sup>st</sup> floor Sougandikam building, Infopark, Koratty. Luure.ai is actively engaged in providing Artificial Intelligence based solutions, having a wealth of experience and knowledge in AI, Automation, web and mobile technologies and are well backed by Technology partners and investors.

A Memorandum of Understanding (MoU) is signed between FISAT and Luure.ai on 16<sup>th</sup> of July 2020. As per the instructions provided in the MoU, 25 students of FISAT ECE Department from 2<sup>nd</sup> year and 3<sup>rd</sup> year was given internship. Internship helped the students to acquire basic knowledge about Artificial Intelligence and its applications. Experts from Luure.ai assisted the students in developing AI related projects. The internship period was May- June 2021.

These 25 students were instructed to build a small python module pipeline that could identify page layout etc or a computer vision module which can identify dents, number plates, models etc. Students could choose either of these above tasks. Based on the performance, 5 students from 25 students was selected to be the part of one of their ongoing live projects. The selected students are Aakash S, Akhil Dhanesh, ANNET GEORGE, HRITHUDEV V S, ISHIKA TRONY. Certificated were provided to all students who participated in the internship program.

## Infrastructure / Laboratories



The Department of Electronics and Communication Engineering is well equipped with high end design and analysis laboratories which are used extensively by the students and faculty members for their curriculum and research activities.

The following is the list of labs in ECE dept:

- ◆ Basic Electronics Lab
- ◆ Electronics Circuits Lab
- ◆ Integrated Circuits Lab
- ◆ Microprocessor and Microcontroller Lab
- ◆ Communication Lab
- ◆ VLSI Design Lab
- ◆ Systems Lab
- ◆ Centre for Research and Innovations in Signal Processing(CRISP)

Students of early semesters will be practicing their lab session in circuit theory at Basic Electronics and Electronic Circuits lab .These lab consists of all types of active/passive components, measuring instruments, cathode ray oscilloscopes, function generators and various types of decade boxes.

Experiments in the IC lab help the students to get exposure about the analog ICs and Digital ICs performances and applications. It helps the students to design the given specification and requirements and also to check for the functionality by using digital IC trainer kits.

Microprocessor and Microcontroller lab is equipped with programming kits in Intel, Atmel & Microchip processors and Simulation softwares such as Xilinx, MASM, Keil, etc. which creates a practical idea in coding the processor and controller. It helps the students to know the methods of interfacing various peripherals like display, keyboard etc. The Lab is also equipped with the Spartan 3, Spartan 3E Starter Boards which provides a powerful and highly advanced self-contained development platform for designs targeting the Spartan 3E FPGA from Xilinx.

In the Communication lab the students get practical exposure to microwave theory, analog and digital communication techniques, sampling processes etc. The laboratory is equipped with microwave test benches,

Digital Storage Oscilloscopes, different trainer kits in optical fiber communication, satellite communication, various Modulation and Demodulation schemes, etc.

The Systems Laboratory helps the students to have an idea in processor programming and also to implement the logic codes. The lab is equipped with different development boards and platforms like Arduino, Raspberrypi, Papilio, etc., special tools like MODELSIM, XILINX, MATLAB, etc enable the students to design, analyze, simulate and even compare results with existing industrial standards.

The PG Lab is exclusively for the PG students where they can work with DSP development boards, OFC and antenna trainer kits, Spectrum analyzer, RF trainer kits etc. The lab provides software needed for design, simulation, and analysis of signal processing and communication systems. Students can design their chips up to 90 nm by using Cadence and alliance tools. Spice simulation software provides a platform for circuit analysis by means of simulation.



### **Centre for Research and Innovations in Signal Processing (CRISP)**

Signal processing techniques have come to occupy a centre place of importance in engineering and technology as evidenced by the plethora of electronic devices available in the market and which employ simple to complex signal processing operations. This points to the opportunities available for signal processing

The centre has facilities such as:

DSP kits like TMS 320C6713, TMS 320C6416, Digital storage oscilloscopes, function generators etc.

For simulation purposes, ANSOFT simulation software, Multisim software and PCB design software are also available

Additional facilities include ARM microcontroller kits and OMAP boards

Some of the research activities in progress in the research centre include:

1. Transforms of signals for image compression and transmission.
2. Digital beam forming for mobile communication.
3. Simulation of different types of Microstrip patch antennas

The centre has also conducted workshops on MATLAB and ANSOFT simulation software and FPGA trainer kits. Workshops on Arduino and RaspberryPi are scheduled in the near future.

### **Center of Excellence in Robotics and IoT (CER)**

The Center of Excellence in Robotics and IoT lab (a.k.a CER lab) was established under an initiative by IIT Bombay with the motive of providing students with industry-standard equipment and resources to develop their skills in engineering beyond what is learned in regular classes each day. The center was first established in the year 2016 under the aegis of Center for Continuing Education, FISAT. It was later identified as a Nodal center for project e-Yantra by IIT Bombay and was upgraded as an eLSI lab in 2016. The center has been successful in conducting three national-level workshops for faculties in association with IIT Bombay. The student members have also been using the lab quite fruitfully and have done several projects in robotics of which some have even gained nation-wide recognition.

The center currently has 20 student members who are currently final and pre-final year undergraduates from CSE, ECE, ME and EEE Departments here at FISAT. Mahesh C (Asst. Prof. CSE Dept.) and Bejoy Varghese (Asst. Prof. ECE Dept.) are the faculty members guiding the center and its activities.

### **Project e-Yantra**

Project e-Yantra is an initiative to spread education in Embedded systems and Robotics by IIT Bombay sponsored by the Ministry of Human Resource

Development through the National Mission on Education through ICT (NMEICT). This project was conceptualized by Prof. Kavi Arya and Prof. Krithi Ramamritham of the Department of Computer Science and Engineering at IIT Bombay. The goal is to create the next generation of (Embedded systems) engineers in India with a practical outlook to take on challenging problems and provide solutions.

As part of the prestigious e-Yantra project, FISAT has set up a Nodal Centre of Excellence in Robotics and Internet of Things in collaboration with IIT Mumbai. e-Yantra Lab Setup Initiative (eLSI) is a college level program under which colleges are encouraged to set up robotics labs. It is designed as a scalable and sustainable approach that addresses infrastructure creation and teacher training – to create an ecosystem at the colleges to impart effective engineering education. FISAT is selected as the Nodal Centre that coordinates all the activities for the e-Yantra lab setup initiative in Kerala region. With this FISAT becomes the only college in Kerala selected by IIT Bombay and MHRD to coordinate all the three prestigious (Remote Centre-Ekalavya project, Resource Centre- Spoken Tutorial project & Nodal Centre- Eyantra project) projects. Through this initiative, the students of FISAT will get an opportunity to get trained by the veteran professors in Embedded Systems and Robotics from IIT Bombay.

## CLASS TOPPERS AND SPECIAL ACHIEVEMENTS OF STUDENTS

### Special Achievements in Academics



**Ms. Devika S**  
of S8 ECE A was selected as the Best Outgoing Student

### Hima Memorial Endowment Award

Hima Memorial Endowment award was an initiative from students of the 2012-2016 batch in the everlasting memory of their classmate Hima C K after her untimely demise in 2015. Its presented yearly to one student from second year and one student from third year of Electronics & Communication Department. The award winners are chosen on the grounds of exceptional academic performance and all round excellence. For this academic year, Hima Memorial Endowment award winners were R Aishwarya of S4 ECE and Ajith James of S6 ECE.



**Ajith James**



**R Aishwarya**

### Funded Projects

- ◆ Three ECE student projects of 2018 admission batch students were recommended for Kerala State Council for Science, Technology and Environment (KSCSTE) funding under Student Project Scheme 2021.

These are :

- Contactless UI control for lifts: Job Sajan John, Kiran Jayram, Sharath K, Roshith Roy
- Hospital Sanitizing Robot: Akshaya Jayan, Eldho Lalu, Fousia P Manaf, Gowri Prasad
- Face Mask Detection System: Ivin Jose, Abhai Varghese, Ashik Shaju, Anand M S

The projects were guided by Ms. Manju C P, Mr. Anoop E G, Mr. Noble G and Mr. Manu Mohan C M, Asst. Profs, ECE department

- ◆ Mr. Ajith S Panackal, Research Scholar under the guide ship of Dr. Anil Kumar M N achieved 1 rank in KTU-PhD entrance examination and qualified for CERD fellowship for PhD.
- ◆ Eight students of 2017-2021 batch ECE received B.Tech in ECE with Honours Degree.



**MEERA R**

**NANDA K R**

**DEVIKA S**



- ◆ Eight students in the 2020 admission batch scored SGPA 10 and Forty six students scored 9 SGPA and above for the first semester B.Tech degree university examination.



**46 students with SGPA 9 and above**

AKHILA T. 9.94	SISIRA SREENATH 9.59	SANJANA G PAI 9.29
GOWRI NANDA S 9.94	VISHNUPRIYA V BHATT 9.59	CYRIL JOSEPH 9.26
HANEENA SAJAN 9.94	ALAN VARGHESE 9.53	SUTHEERTH B P 9.26
MALAVIKA PRADEEP 9.94	ADHIENA MERIN BABU 9.5	SEBASTIAN JOSE 9.24
ANUROOP K. SAJEEVAN 9.76	ANTONY P NIXON 9.5	ANSAF HAROON 9.18
NOVA P.G 9.76	ARYA MENON 9.5	ASHLI SABU 9.18
CHRISTEENA JAMES 9.74	SRIELAKSHMI V NAMPOOTHIRI 9.5	A AKSHAY 9.15
DIYA FIO 9.74	KAVYA V V 9.44	GAUTHAM RAJESH 9.15
DEVIKA SAJEEVAN 9.68	JOSHUA ALEX MATHEWS 9.41	BRIDGET JOY VATHIKULAM 9.09
NEENA J UKKEN 9.65	SREEKANTHS 9.41	NANDHITHA LAKSHMANAN 9.09
MUHAMMED RAYAN SIDDIK 9.62	ANAGHA K R 9.32	AMAN JABBAR 9
ALEEN FERNANDEZ 9.59	ATHUL ANOOB 9.29	GOPIKA A 9
ARDRA SASIDHARAN 9.59	R. VYSHNAV CHANDRA 9.29	

- ◆ Three students of the 2019 admission batch scored SGPA 10 in the third semester B.Tech degree university examinations conducted in December 2020.



- ◆ Seven students of the 2018 admission batch obtained above 9 SGPA and above for the 5th semester B.Tech university examination.
- ◆ Twenty three students of the 2017 admission batch obtained above 9 SGPA and above for the 7 semester B.Tech university examination

**Class Toppers**

**S3 ECE A**

Sl No	Reg No	Name	CGPA	Class Position
1	FIT19EC034	ARYA N A	10	1
2	FIT19EC043	CATHARINE SEBI	9.91	2
3	FIT19EC029	ANNET GEORGE	9.91	2
4	FIT19EC003	AAKASH S	9.86	3
5	FIT19EC047	CHRISTY SEBI	9.64	4
6	FIT19EC051	GODLY LAIJU	9.55	5

**S3 ECE B**

Sl No	Reg No	Name	CGPA	Class Position
1	FIT19EC096	R AISHWARYA	10	1
2	FIT19EC093	PRAHARSHA SOORAJ	10	1
3	FIT19EC110	SOWMYA S	9.5	2
4	FIT19EC084	NIKHITHA JOHNSON	9.5	2
5	FIT19EC072	MANAL ZUBAIR	9.5	2
6	FIT19EC082	NAVEENA T S	9.23	3
7	FIT19EC065	KARINA P JOSHI	9	4
8	FIT19EC079	NANDANA M	9	4

## S5 ECE A

Sl No	Reg No	Name	CGPA	Class Position
1	FIT18EC039	FOUSIYA P MANAF	9.29	1
2	FIT18EC002	ABHAY RAJ K S	9.29	1
3	FIT18EC044	IVIN JOSE	9.17	2
4	FIT18EC006	AJITH JAMES	8.93	3
5	FIT18EC041	GOWRI ANILKUMAR	8.55	4
6	FIT18EC036	FAMEELA V A	8.45	5

## S5 ECE B

Sl No	Reg No	Name	CGPA	Class Position
1	FIT18EC050	JIBIN K MATHAI	9.43	1
2	FIT18EC064	NANDANA RAJEEV	9.31	2
3	FIT18EC074	SANDEEP C T	9.17	3
4	FIT18EC093	UTHARA CHAKKUNGAL VIJAYAN	9.14	4
5	FIT18EC077	SANGEETHA S KUMAR	9.14	4
6	FIT18EC057	KEERTHANA K MANIKANDAN	9.05	5

## Faculty Achievements

1) Appreciation letter was handed over to FISAT by ASAP (Additional Skill Acquisition Programme), Higher Education Department, Govt. of Kerala, for designing and developing an online portal for ASAP placement drive ASPIRE. IEEE FISAT SB developed a dynamic automated software to coordinate the placement activities for all graduates, postgraduates and diploma engineering students. The program named 'Aspire' is an initiative of ASAP and Higher Education Department, Kerala Govt., to provide quality placement and internships. FISAT got an opportunity to associate with this project.



Mr Bejoy Varghese, Asst. Prof, ECE receiving appreciation letter

2) Anoop E G, Asst. Prof, ECE completed RPA developer certification programme conducted by ASAP. It included a 1-week online workshop and 13 online Robotic process courses and an online assessment. As he has become a certified RPA professional, the ECE department can run the RPA courses for our students.

3) Dr Mini P R, Professor & HoD, ECE got selected as a member of KTU Board of studies.

### Faculty Publications

4) Mr. Basil K Jeemon, Asst. Prof, ECE published a conference paper titled "Design and Analysis of a Novel Space-Time- Frequency Block Coded Vector OFDM Scheme Robust to Rayleigh Fading" in the '2020 IEEE 17<sup>th</sup> India Council International Conference (INDICON)', 2020, pp. 1-5, doi: 10.1109/INDICON49873.2020.9342086.

5) Pearlsy, P. V., Asst. Prof, ECE published a conference paper titled "A Novel Simplified Approach for Text Line Extraction of Handwritten Malayalam Document." in the '2020 Advanced Computing and Communication Technologies for High-Performance Applications (ACCTHPA)', IEEE, 2020.

### Online courses/FDPs/ Workshops attended and qualified by faculty:

The table below lists the FDP attended by the faculty in the academic year 2020-21. This, in turn, helps teachers guide students in areas where they have developed expertise. The chart shown below illustrates the trending topics and the percentage share of faculty attended.

SL. NO.	NAME OF FACULTY	NAME OF TRAINING	DATE	CONDUCTED BY
1	Dr Anil Kumar M N	Entrepreneurship and Innovation-FDP	26-02-2021-11-03-2021	SYMBIOSIS
		Research Opportunities in Electrical and Electronics Engineering-FDP	12-03-2021-05-03-2021	MVJ College of Engineering
		Advancement in Signal Processing and AI in Healthcare-FDP-AICTE	15-02-2021-24-02-2021	IITDM, Kancheepuram
2	Dr Mini P R	MATLAB Fundamentals	17-08-2020	MATLAB
		Machine Learning with MATLAB	18-08-2020	MATLAB
		Deep Learning with MATLAB	19-08-2020 - 20-08-2020	MATLAB
		STTP on Image Forensics	27-07-2020 - 01-08-2020	CUSAT
		Paradigm Shift in Assessment and Evaluation Practices for Engineering Graduates	19-10-2020 - 24-10-2020	Amal Jyothi College of Engineering
		Basics of Programming in Python	20-01-2021 - 21-01-2021	ECE Department and ISTE
3	Dr. Krishna Kumar S.	Wearable Devices	11-01-2021 - 15-01-2021	ATAL and Saintgits
		Deep Learning for Computer Vision – A Practical Approach	02-11-2020 - 05-11-2020	Division of Electronics Engineering, School of Engineering, Cochin University of Science and Technology, Kochi, Kerala and THDC Institute Of Hydropower Engineering And Technology, Tehri.(TEQIP)
		Introduction to Machine Learning	17-10-2020	Adi Shankara Institute of Engineering and Technology, Kalady(IEEE)
		Embedded System Design - Hardware Perspective	30-07-2020	Dept. of ECE, FISAT(ECHO)
		Artificial Intelligence and Machine Learning: Theory and Applications-KTU-FDP	01-02-2021-05-02-2021	Dept. of AE & I, RSET

		Robotics and Control- KTU-FDP	19-04-2021-23-04-2021	Dept. of Robotics and Automation, ASIET
		Deep Learning for Computer Vision – A Practical Approach-Workshop-TEQIP	02-11-2020-05-11-2020	DoE, SoE, CUSAT and THDC Institute Of Hydropower Engineering And Technology, Tehri
		Architecture and Security-FDP-KTU	15-03-2021-17-03-2021	MACE, Kothamangalam
4	Neena K A	STTP on Image Forensics	27-07-2020 - 01-08-2020	CUSAT
		Introduction to HDL and Programmable Logic	18-07-2020	ECHO, FISAT
		Scope of VLSI and Timing analysis	25-07-2020	ECHO, FISAT
		Basics of programming in Python(Workshop,ISTE)	20/01/2021-21/01/2021	Dept. of ECE, FISAT
		Image and Video Processing: From Mars to Hollywood with a Stop at the Hospital (FDP)	01/01/2021 – 01/03/2021	coursera
5	Ambili A R	STTP on Data Analytics and Machine Learning	03-08-2020 - 08-08-2020	The department of Computer Science and Engineering Engineering, Amal Jyothi College of Engineering
		Short Term Training Programme on Outcome Based Education for Technical Institutions-Phase I	14-10-2020 - 20-10-2020	One week AICTE sponsored(AQIS)
		Five Day FDP on Mathematics for DataScience	10-08-2020 - 14-08-2020	Dept of Basic Science and Humanities, MITS Varikkoli
		Machine Learning and Optimisation-FDP-AICTE	22-02-2021-27-02-2021	Ahalya Institute of Science and Technology ,Palakkadu
		Nural Networks and Deep Learningg-FDP-COURSERA	28-01-2021-28-02-2021	DeepLearning .AI
		International Workshop on Recent Advancement on Electronics and Computer Intelligence. (RAECI -2021),	26-04-2021-30-04-2021	Department of Electronics and CSE&A, Sambalpur University Institute of Information Technology (SUIIT), Burla , Odisha, INDIA.

		One Week International Seminar on Electronics and Computing Technology	27-03-2021-01-04-2021	Department of Electronics,sUIT
		INTERNATIONAL CONFERENCE-Webinar-UGC	08-04-2021-09-04-2021	Department of ECE
		NATIONAL WORKSHOP ON "CHOOSE TO CHALLENGE -TOGETHER WE CAN "-UGC	08-03-2021-12-03-2021	iiit Thiruchirapally
		Design Thinking & Innovation' and 'Value Creation in Start-up & Entrepreneurship'	25-02-2021	ST. XAVIER'S COLLEGE (AUTONOMOUS), MUMBAI
		WORKSHOP ON FUNDAMENTALS OF DEEP LEARNING	25-02-2021-28-02-2021	IIT MADRAS
		Advancements in Signal Processing and Artificial Intelligence in Healthcare-STTP	15-02-2021-25-02-2021	Indian Institute of Information Technology, Design and Manufacturing(IITD), Kancheepuram
6	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 - 28-08-2020	the Department of Electronics and Communication Engineering, National Institute of Technology Calicut
		Five days hands on workshop on Analog and digital vlsi design using Cadence design tool	03-08-2020 - 07-08-2020	department of electronics and communication Muthoot institute of technology
		online fdp on circuits and systems-solid state devices	11-08-2020 - 15-08-2020	IEEE circuits and systems society kerala section in association with department of electronics and communication,TKM ,Kerala
		CRYPTOGRAPHY AND NETWORK SECURITY	1/1/2021 - 4/29/2021	IIT,KHARAGPUR
7	Pearlsy P V	Short term training program on image forensics	27-07-2020 - 01-08-2020	Division of electronics engineering, SOE, CUSAT

		Deep Learning for Computer Vision – A Practical Approach”	02-11-2020 - 05-11-2020	Division of Electronics Engineering, School of Engineering, Cochin University of Science and Technology, Kochi, Kerala and THDC Institute Of Hydropower Engineering And Technology, Tehri
		Basics of Programming in Python	20-01-2021 - 21-01-2021	Department of ECE in association with ISTE chapter, FISAT
8	Nimmy M Philip	Modeling simulation and fabrication of future nanoelectronic devices and sensors	24-08-2020 - 28-08-2020	NIT calicut
		One Day Workshop on Arduino'	02-08-2020	IIT Bombay
		Nanotechnology: A Maker's Course	23/07/2020 - 07/08/2020	Coursera
		Artificial Intelligence(FDP,ATAL)	22/02/2021- 26/02/2021	Model Engineering College
		Edge computing,AI(FDP)	07/01/2021- 08/01/2021	FISAT
9	Vinitha V	Five day hands on workshop on analog and digital vlsi design suing cadence tool suite	03-08-2020 - 07-08-2020	MITS
		International FDP on MICROSYSTEMS DESIGN AND CONTROL ENGINEERING	17-09-2020 - 20-09-2020	SAINT GITS
		Outcome based education for technical institutions -1	14-10-2020 - 20-10-2020	Rajagiri School of Engg and Tech
		Recent Advancement on Electronics and Computer Intelligence. (RAECI-2021)-Workshop	26-04-2021- 30-04-2021	SUIT,Burla
		One Week International Seminar on Electronics and Computing Technology (ISECT -2021)-Webinar	27-03-2021- 01-04-2021	SUIT,Burla
		Machine learning for all	25-02-2021- 25-03-2021	COURSE ERA
		Machine learning and optimisation-FDP-AICTE	22-02-2021- 27-02-2021	Ahalia school of engg and tech
10	Anoop E G	FDP on "Design thinking"	07-09-2020 - 11-09-2020	College of Engineering Trivandrum.

		FDP on "Internet of Things (IoT)"	14-09-2020 - 18-09-2020	College of Engineering, Kalllooppara
		International FDP on Enterprise Linux Fundamentals with Cloud and Containers Platform	18-08-2020 - 27-08-2020	Marian College Kuttikkanam
		"VLSI Security: Hardware Security - Attacks and Solutions"	05-08-2020	Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kerala.
12	Subha Thomas	THE NEW NORMAL POST COVID OPPORTUNITIES IN ELECTRONIC INDUSTRIES	27-07-2020 - 31-07-2020	DEPARTMENT OF ECE SREE BUDHA ENGINEERING COLLEGE
		Programming for Everybody (Getting Started with Python)	01-07-2020 - 31-07-2020	Coursera
13	Benoy Abraham	Cyber security and blockchain technology	18-01-2021 - 23-01-2021	Dept. of CSE, College of Engineering, Perumon
		Python programming for computer vision and data science	28-12-2020 - 02-01-2021	Dept of ECE, TKM college of engineering, kollam
		Internet of things	05-01-2021- 09-01-2021	NIT, Durgapur
14	Minu Kuriakose	5G Technologies and IoT(FDP,TEQIP)	15/03/2021- 19/03/2021	GEC palakkad
		Introduction to HDL and Programmable Logic	18-07-2020	FISAT,ECHO
		5G NR:The next Generation Wireless Access Technology	08-08-2020	Fisat,ECHO
		Basics of Programming in Python (FDP,ISTE)	20/01/2021- 21/01/2021	Fisat
		Referance Management Tool- Mendeley(Workshop)	28-01-2021	Fisat
15	Christy Jose	Programming for everybody - Getting started with Python	02-08-2020 - 04-09-2020	Coursera - University of Michigan
		Python Data Structures	07-09-2020 - 26-09-2020	Coursera - University of Michigan
		International FDP on Microsystems Design and Control Engineering	17-09-2020 - 20-09-2020	Saintgits College of Engineering Kottayom

		Everyday Parenting : The A B Cs of Child Rearing	31-07-2020 - 24-08-2020	Yale University ,Coursera
		Embedded System Design with ARM (FDP)	18/01/2021 - 12/03/2021	IIT Kharagpur(SWAYA M/NPTEL)
		Introduction to Professional Scientific Communication(FDP)	18/01/2021 - 12/02/2021	IIT Kanpur(SWAYAM/N PTEL)
		Institutional Workshops on Swachtha	29-04-2021	NSS , SWAN and IEDC FISAT
		Basics of programming in Python(Workshop,ISTE)	20/01/2021- 21/01/2021	Dept of ECE in association with ISTE FISAT
		Online FDP on Reference Management Tool - Mendeley	28-01-2021	Dept of ECE
		Signal Processing with MATLAB and Simulink - workshop at Shaastra 2021 IIT Madras(Workshop)	26/02/2021 – 27/02/2021	IIT Madras
		Industry 4.0 : optimize operations and shape future innovations	09-05-2021	SNMIMT Maliankara
		Online workshop on Universal Human Values	19/10/2020 - 23/10/2020	AICTE
<b>16</b>	<b>Jilu George</b>	INDUSTRIAL TRAINING PROGRAM ON FUTURE SCOPE OF ENGINEERING IN GLOBAL DEVELOPMENT	27-07-2020 - 31-07-2020	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY,Ero de
		TECHNICAL TRAINING PROGRAM ON DEEP LEARNING AND ARTIFICIAL INTELLIGENCE	13-07-2020 - 17-07-2020	IETE
		NPTEL ONLINE CERTIFICATION - Introduction to Professional Scientific Communication	18/01/2021 – 17/02/2021	IIT KANPUR(SWAYA M/NPTEL)
		Advances in physical and numerical modelling in Geotechnical and Geoenvironmental Engineering-FDP-KTU	21-06-2021- 25-06-2021	Musalier College of Engineering and Technology, Pathanmathitta
		Programming for Everybody (Getting Started with Python)	16/03/2021- 16/05/2021	University of Michigan (COURSERA)

17	Aiswariya Raj	Short term training program on Image Forensics	27-07-2020 - 01-08-2020	Division of Electronics Engineering, School of Engineering, CUSAT
		Online Workshop sponsored by TEQIP III on “Deep Learning for Computer Vision – A Practical Approach	02-11-2020 - 05-11-2020	Division of Electronics Engineering, School of Engineering, Cochin University of Science and Technology, Kochi, Kerala and THDC Institute Of Hydropower Engineering And Technology, Tehri.
		Inculcating Universal Human Values in Technical Education-Workshop -AICTE	19-10-2020-23-10-2020	All India Council for Technical Education(AICTE).A ll India Council for Technical Education(AICTE).
		Deep Learning for Computer Vision – A Practical Approach-Workshop-TEQIP	02-11-2020-05-11-2020	jointly by Division of Electronics Engineering, School of Engineering, Cochin University of Science and Technology, Kochi, Kerala and THDC Institute Of Hydropower Engineering And Technology, Tehri.
18	Nisha R	IOT and Data Science	28-12-2020 - 02-01-2021	ST.Joseph PALA, Dept of ECE
		IOT	05-01-2021 - 09-01-2021	NIT DURGAPUR
		CYBER SECURITY AND BLOCK CHAIN	18-01-2021 - 23-01-2021	College of Engineering Perumon
19	Anu K Kuriakose	Mobile App Development using Android Studio	31-08-2020 - 04-09-2020	IETE-MUMBAI
		Scope of Electronics Engineers in Post Pandemic Situation	13-08-2020 - 15-08-2020	MCET Pathanamthitta
		Trends and Technologies in Antenna Design and its Research Scopes	10-08-2020 - 16-08-2020	Toc H Institute of Science & Technology,Ernakulam

		KNOW EVERYTHING RELATED TO RESEARCH	23-07-2020 - 28-07-2020	ICET,MUVATTUPU ZHA
		MACHINE LEARNING IN HEALTHCARE AND AGRICULTURE	06-08-2020 - 06-08-2020	ASIET,KALADY
		DIGITAL WEB MARKETING	22-07-2020 - 22-07-2020	FISAT
20	Sheelu Susan Mathews	WEARABLE DEVICES	11-01-2021 - 15-01-2021	ATAL
		reference management tool - MENDELEY(FDP)	28-01-2021	FISAT ECE Dept
		ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING:THEORY AND APPLICATIONS (FDP,KTU)	01/02/2021 – 05/02/2021	RSET
21	Dhanya S	Image Forensics	27-07-2020 - 01-08-2020	CUSAT
		Python Programming & Libraries	05-10-2020 - 09-10-2020	IETE, Mumbai
		Python - Internet of Things Implementation	12-10-2020 - 16-10-2020	IETE, Mumbai
		Inculcating Universal Human Values in Technical Education	19-10-2020 - 23-10-2020	AICTE
		Python - Machine Learning Concepts Visualization	19-10-2020 - 23-10-2020	IETE, Mumbai
		Python - Deep Learning Techniques	26-10-2020 - 30-10-2020	IETE, Mumbai
		Basics of Programming in Python(Workshop,ISTE)	20/01/2021 – 21/01/2021	ECE, FISAT
		Machine Learning and Optimization(FDP,AICTE)	17/05/2021- 22/05/2021	Ahalia School of Engineering and Technology, Palakkad
22	Basil K Jeemon	MATHEMATICS FOR DATA SCIENCE	10-08-2020 - 14-08-2020	Muthoot Institute of Technology & Science
		One week AICTE sponsored (AQIS) Short term training programme on outcome based education for technical institutions- Phase I	14-10-2020 - 20-10-2020	Rajagiri School of Engineering and Technology
23	Jeslin P Jo	Two days FDP on "Introduction to digital twinning"	23-07-2020 - 24-07-2020	Division of IT,SOE,CUSAT

		STTP on "Image Forensics"	27-07-2020 - 01-08-2020	Division of Electronics Engineering,SOE,CU SAT
		3 days FDP on "IoT"	16-07-2020 - 18-07-2020	NITK-STEP
		one week FDP on "Recent Trends and Advancements in Information and Technology"	27-07-2020 - 01-08-2020	Dept. of MCA,FISAT
		5 days Industrial Training on "Future Scope of Engineering in Global Development"	27-07-2020 - 31-07-2020	Dept. of ECE, VCET, Erode
		Technical Training on "Matlab Programming & Image Processing "	13-07-2020 - 17-07-2020	IETE
		Python for Everybody	01-07-2020 - 30-07-2020	University of Michigan, Coursera
		Python for Data Structures	01-07-2020 - 04-08-2020	University of Michigan,Coursera
		Neural Networks and Deep Learning	15-07-2020 - 04-08-2020	Stanford University, Coursera
		Recent Trends in Advancements in Information Technology(International FDP)	27/07/2020- 01/08/2020	Department of Computer Applications ,FISAT
		Innovation in Antenna Design and Analysis	09/07/2020 -	Altair,India
		Emerging Trends in field of Science and Humanities	16/07/2020 - 17/07/2020	Department of Science and Humanities,FISAT
<b>24</b>	<b>Manju C P</b>	PYTHON DATA STRUCTURE	01-07-2020 - 04-08-2020	UNIVERSITY OF MICHIGAN
		STTP - DATA ANALYTICS AND MACHINE LEARNING	03-08-2020 - 08-08-2020	AMAL JYOTHI COLLEGE OF ENGINEERING
		FDP -INTRODUCTION TO DIGITAL TWINNING	23-07-2020 - 24-07-2020	CUSAT
		INDUSTRIAL TRAINING PROGRAM ON FUTURE SCOPE OF ENGINEERING IN GLOBAL DEVELOPMENT	27-07-2020 - 31-07-2020	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY
		TECHNICAL TRAINING PROGRAM ON DEEP LEARNING AND ARTIFICIAL INTELLIGENCE	13-07-2020 - 17-07-2020	IETE
		INNOVATIONS IN ANTENNA DESIGN AND ANALYSIS	09-07-2020 - 09-07-2020	ALTAIR

25	Manu Mohan	Tools and Platforms for Technology Enabled Learning	17-08-2020 - 21-08-2020	Govt. Women's Polytechnic College, Kottakkal
		Wearable Device(ATAL)FDP	11-01-2021 - 15-01-2021	Saintgits College of Engineering
		Robotics & Control-FDP-KTU	11-01-2021 - 15-01-2021	Adi Shankara Institute of Engineering and Technology
		Recent Developments in Machine learning and Data Science-FDP	02-06-2021- 04-06-2021	Toc H Institute of Science & Technology,Ernakulam
		VLSI Security: Hardware Security -Attacks and Solutions -Webinar	05-08-2020	Megara Robotics Pvt. Ltd., Chennai in collaboration with Humanitarian Technology (HuT) Labs and IEEE Student Branch Of Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kerala.
		MACHINE LEARNING IN HEALTHCARE AND AGRICULTURE- Webinar	06-08-2020	ASIET,KALADY
		Innovation in Antenna Design and Analysis	09-09-2020	altair
		5G NR: The Next Generation Wireless Access Technology	08-08-2020	ECHO, FISAT
		Introduction to Embedded Software and Bootup Procedure in an Embedded System	30-07-2020	ECHO, FISAT
		Embedded System Design - Hardware Perspective	08-08-2020	ECHO, FISAT
		Basics of Analog Layout Design	28-07-2020	ECHO, FISAT
26	Gayathri I K	Webinar on Introduction to Embedded Software	30-07-2020 - 30-07-2020	ECHO
		Webinar on Embedded System Hardware	30-07-2020 - 30-07-2020	ECHO
		Webinar on Basics of Analog Layout Design	28-07-2020 - 28-07-2020	ECHO
		Webinar on Scope of VLSI	25-07-2020 - 25-07-2020	ECHO

		FDP on Internet of Things	16-07-2020 - 18-07-2020	NITK, Surathkal
		Webinar on Introduction to HDL	18-07-2020 - 18-07-2020	ECHO
27	Noble G	An introduction to computer vision and Deep learning	29-07-2020	AWH engineering College
		Exploring Indian space technology	24-07-2020	Amaljyothi Engineering College
		Introduction to MEMS	21-09-2020	Engineering, Musaliar College of Engineering
		Intellectual Property rights	16-01-2021	FISAT
		Internet of Things (IoT)	01-02-2021 - 05-02-2021	AICTE Training And Learning (ATAL) Academy
		Machine Learning and Optimization(FDP,AICTE)	22/03/2021- 27/03/2021	Ahalia Scoool of Enginerring
		Big data in IoT(STTP,AICTE)	02/08/2021- 02/12/2021	College of Enginneering, Karunagappally
		5G Technologies and IoT(FDP,TEQIP)	15/03/2021- 19/03/2021	GEC palakkad
		Recent Trends in image processing(FDP,TEQIP)	25/03/2021- 27/03/2021	College of Engineering Vadakara
		Machine Learning and Optimization Phase III(FDP,AICTE)	17/05/2021- 22/05/2021	Ahalia School of Engineering
Emerging Trends and Challenges in Low power VLSI Design(FDP,KTU)	19/05/2021 – 21/05/2021	Mar Baselios Christian college of Engineering and Technology		
28	Elza George	PARADIGM SHIFT IN ASSESSMENT AND EVALUATION PRACTICES FOR ENGINEERING GRADUATES-STTP-AICTE	19-10-2020- 24-10-2020	Dept of ECE, Amal Jyothi College of Engineering, Kanjirappally
		5G Technologies & IoT -TEQIP	15-03-2021- 19-03-2021	ECE Department, GEC Palakkad
		Recent Trends and advancements in Information Technology	27-07-2020- 01-08-2020	Dept of Computer Applications, FISAT
29	Sreelekshmy S	Future scope of Engineering in Global Development	27-07-2020 - 31-07-2020	Velalar College of Engineering, Erode

		Recent Trends & Achievements in IT	27-07-2020 - 01-08-2020	MCA Department, FISAT
		Introduction to Digital Twinnig	23-07-2020 - 24-07-2020	CUSAT
		Internet of Things	16-07-2020 - 18-07-2020	National Institute of Technology, Karnataka
		Python Data Structures	06-08-2020 - 10-08-2020	University of Michigan
		Programming for Everybody (Getting Started with Python)	08-07-2020 - 06-08-2020	University of Michigan
30	Bini V K	PYTHON DATA STRUCTURE	01-07-2020 - 04-08-2020	UNIVERSITY OF MICHIGAN
		STTP - DATA ANALYTICS AND MACHINE LEARNING	03-08-2020 - 08-08-2020	AMAL JYOTHI COLLEGE OF ENGINEERING
		FDP -INTRODUCTION TO DIGITAL TWINNING	23-07-2020 - 24-07-2020	CUSAT
		INDUSTRIAL TRAINING PROGRAM ON FUTURE SCOPE OF ENGINEERING IN GLOBAL DEVELOPMENT	27-07-2020 - 31-07-2020	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY
		TECHNICAL TRAINING PROGRAM ON DEEP LEARNING AND ARTIFICIAL INTELLIGENCE	13-07-2020 - 17-07-2020	IETE
		INNOVATIONS IN ANTENNA DESIGN AND ANALYSIS	09-07-2020 - 09-07-2020	ALTAIR
		5G Technologies and IoT(FDP,TEQIP)	15/03/2021-19/03/2021	GEC palakkad
31	Leena Thomas	Introduction to HDL and programable logic	18-07-20	ECHO, FISAT
		Artificial Intelligence	15-07-20	ECHO, FISAT
		Scope of VLSI and Training analysis	25-07-2020	ECHO, FISAT
		Introduction to embedded software and bootup procedure	30-07-2020	ECHO, FISAT
		5G NR	08-08-2020	ECHO, FISAT
		FDP-Artificial Intelligence	19/10/2020 - 23/10/2020	ATAL,AICTE
		Python Prgramming(Workshop)	11/10/2020-13/10/2020	IES COLLEGE OF ENGINEERING, IEEE
		Basic Programming In Python(Workshop)	20/01/2021-21/01/2021	FISAT,ISTE
		Fourier Transforms	17-04-2021	Sreebudha college
		Network Theory(FDP)	14/09/2020-18/09/2020	TKM COLLEGE,IEEE
		Intellectual property rights	25-04-2021	FISAT

## Promotion Details

SI No	Name	Current designation	Date of Promotion
1	Dr. Mini P.R	Dean Academics coordinating NBA, NAAC, IQAC	June 1 2021
2	Dr. AnilKumar M.N	HOD, ECE Dept	June 1 2021

## DETAILS OF INTERNSHIP DONE BY STUDENTS

SL No:	Name of the student	Title	Orgaization	Date (From To)
1	Anjala Ansari	Ethical Hacking	Pace Lab	1 week August 2020
2	Candice Darvin	Asic Physical Design And Verification	Sandeepani School Of Embedded System Design, Bangalore	17/8/2020-16/9/2020
3	Deepend P	Data Science And Machine Learning	Inker Robotics , Thrissur	2 Weeks August 2020
4	Fyna Francis	Asic Physical Design And Verification	Sandeepani School Of Embedded System Design, Bangalore	17/8/2020-16/9/2020
5	Godwin Varghese	Asic Physical Design And Verification	Sandeepani School Of Embedded System Design, Bangalore	17/8/2020-16/9/2020
6	Anna Mathew	Machine Learning	Industrus Tech	18.09.20 - 22.09.20
7	Ardra Saji	Machine Learning	Industrus Tech	18.09.20 - 22.09.20
8	Joheon Cp	Excel Automation	Internship Studio	16/9/2020 to 23/10/2020
9	Joseph Paul	Machine Learning	Internship Studio	29-7-2020 to 3/9/2020
10	Joseph Paul	Ai	<a href="http://Luure.Ai">Luure.Ai</a>	MAY JUNE 2021
11	Keerthana Manikandan	Ethical Hacking	Pace Lab	8/12/2020 to 14/12/2020
12	Linto Thomas	Machine Learning	Internship Studio	27/10/2020 to 1/12/2020
13	Jibin K Mathai	Ai	Luure.Ai	MAY JUNE 2021
14	Jibin K Mathai	Cyber Security And Ethical Hacking	Zindot Technologies	7/4/2021-14/4/2021
15	Mariya Tony	Internet Of Things	Zinndot Technologies	August 2020 (15 days)

16	Sandra Maria	Ethical Hacking	Pacelab	8/12/2020 to 14/12/2020
17	Manu Sankar	Cyber Security And Ethical Hacking	Zindot Technologies	28th March to 10 days
18	Sandra Pylee	Ethical Hacking	Pacelab	8/12/2020 to 14/12/2020
19	Nitha Backer	Training In Embedded System	Zindot Technologies	28 MARCH 2020 (10 DAYS)
20	Smitha V Murali	Ethical Hacking	Pacelab	8/12/2020 to 14/12/2020
21	Sreekutty P.S	Ethical Hacking	Pacelab	8/12/2020 to 14/12/2020
22	Paul Sabu	Ai	<a href="#">Luure.Ai</a>	may june 2021
23	Rajeev K R	Ai	<a href="#">Luure.Ai</a>	may june 2021
24	Uthara Chakkungal Vijayan	Ethical Hacking	Pacelab Iet	1 week intership
25	Santhwana T	Home Automation	Industrus Tech	7th aug to 11th aug
26	Sebin Thomas	Cyber Security And Ethical Hacking	Zindot Technologies	28th March to 10 days
27	Sourav Bhaskar	Cyber Security And Ethical Hacking	Zindot Technologies	28th March to 10 days
28	Sreyas A Kumar	Cyber Security And Ethical Hacking	Zindot Technologies	28th March to 10 days
29	Sruthy M	Cyber Security And Ethical Hacking	Zindot Technologies	28th March to 10 days
30	Tessa Martin	Embedded Systems	Zindot Technologies	28th March to 10 days
31	Aahna Maria Issac	Arduino	Keltron	29 March 2021 to 4 AApril 2021
32	Adithya K V	Arduino	Keltron	29 March 2021 to 4 AApril 2021
33	Aswin J	Arduino	Keltron	29 March 2021 to 4 AApril 2021
34	Ishika Trony	AI	Luure.Ai	may-june 2021
35	Hrithudev Vs	AI	Luure.Ai	may-june 2021
36	Akhil Dhanesh	AI	Luure.Ai	may-june 2021

37	Annet George	AI	Luure.Ai	may-june 2021
38	Aakash S	AI	Luure.Ai	may-june 2021
39	Noel Mathew	Additive Manufacturing Electronics & Control Systems	Alphasys 3d Printing Solutions	25.05.2021 - 29.05.2021
40	Nivedhya Gopi	PCB Designing	Reverttech It Solutions	27-08-2020 to 01-09- 2020
41	P Anand	AI	Luure.Ai	may-june 2021
42	Muskan M A	Web Development	Sysbreeze Technologies	24/4/2021 to 8/5/2021
43	Joyal Johnson	3D Printing Solutions	Alphasys 3d Printing Solutions	25/5/2021 to 29/5/2021
44	Muhammed Sadhath V H	3D Printing Solutions	Alphasys 3d Printing Solutions	25/5/2021 to 29/5/2021
45	Sidharth V Nair	Mobile Application -Flutter	Sysbreeze Technologies	april-may 2021
46	Sradha Sreekumar	Embedded Systems	Zindot Technologies	Dec-20
47	Santhanu Prasad	Pcb Designing Internship	Rever Tech It Solutions	AUG 27 TO SEP 01 2021
48	Sachit Sebastian	Electric Vehicles	Techmaghi	2 JULY TO 6TH JULY 2021
49	Sanoop M J	Electric Vehicles	Techmaghi	2 JULY TO 6TH JULY 2021
50	Srilekshmi J Nair	PCB Designing Internship	Rever Tech It Solutions	AUG 27 TO SEP 01 2021
51	V S Muhammed Shifas	PCB Designing Internship	Rever Tech It Solutions	AUG 27 TO SEP 01 2021
52	Viswajith Vijayakumar	Electric Vehicles	Techmaghi	2 JULY TO 6TH JULY 2021
53	Vishnu Vinod	Mobile Application -Flutter	SysbreezeTechnologies	april-may 2021
54	Abhai Varghese	Embedded System With Iot	Nest Cyber Campus	15/04/2021 (7 days)
55	Abhay Raj K S	Embedded System With Iot	Nest Cyber Campus	15/04/2021 (7 days)
56	Abhinav Sb	Internship On Embedded System	Zindot Technologies	13/7/2021(10 days)
57	Ajith James	Embedded System With Iot	Nest Cyber Campus	15/04/2021 (7 Days)
58	Akshay Jayan	Embedded system with IOT	NeST cyber campus	15/04/2021 (7 Days)
59	Alex Joy	Embedded system with IOT	NeST cyber campus	15/04/2021 (7 Days)
60	Ameer Mohamed K.M	Embedded system with IOT	NeST cyber campus	15/04/2021 (7 Days)

## Details of NPTEL and MOOC courses attended by ECE students

Name	Course conducted Date(DD/MM/YY)	Course Title	Duration of course (In weeks/Days)	Course Conducted by
Jain Joy	2020-21	Programming for Everybody (Getting started with python)	8 week	coursera
Abhinav sb	2020-21	coursera intro to tensorflow	3weeks	Coursera
Amulya KM	2020-21	Programming for everybody (python)	7 weeks	Coursera Michigan University
Aiswarya Antony	2020-21	Online Course	30.5 hours	Udemy
Aiswarya Antony	2020-21	Online Course	4 weeks	Coursera
Abhinav sb	2020-21	Image Classification with CNNs using Keras	1 week	Coursera
Ameer Mohamed K.M	2020-21	Learn Programming with Javascript	4 weeks	openclassrooms
Akshara S	2020-21	Accenture Developer Program	5 days	Accenture MNC
Ameer Mohamed K.M	2020-21	Programming for Everybody(Getting started with Python)	7 weeks	Coursera
Gowri Prasad	2020-21	rpa developer foundation		UiPath
Ameer Mohamed K.M	2020-21	Build your first webpages with HTML and CSS	4 weeks	openclassrooms
Ameer Mohamed K.M	2020-21	python	4 weeks	kaggle
Christo KS	2020-21	AI for Everyone: Master the Basics	6 days	IBM
Ajith James	2020-21	RPA Developer Foundation	4 week	UI path Academy
Drishya Dileep	2020-21	Programming for Everybody(Getting started with python)	7 weeks	University of Michigan
Drishya Dileep	2020-21	RPA developer Foundation		Ui path
Ajith James	2020-21	Introduction to IOT and Embedded systems	4 week	University of California , Irvine
Abhinav sb	2020-21	Basic Image Classification with TensorFlow	1 week	Coursera
JAGATHKRISHNA P	2020-21	PYTHON BASICS	4 WEEKS	COURSERA
Gowri Prasad	2020-21	Arduino platform and c programming	4 weeks	university of California, irvine
JACOB SHAJAN	2020-21	Python Basics	4 week	course era
Ardra Saji	2020-21	Course on Internet of Things	8 weeks	IEEE Kochi Hub

Ardra Saji	2020-21	Course on Web Development	8 weeks	IEEE Kochi Hub
JERIN JOY	2020-21	online course	4 WEEKS	coursera
Gowri Prasad	2020-21	python data structures	7 week	university of Michigan
Farsana.K.A	2020-21	Programming for Everybody (Getting started with python)	2-3 week	University of Michigan
Aiswarya Antony	2020-21	Online Course	5 weeks	Coursera
Abhay Raj K S	2020-21	RPA Developer Foundation		UI Path
Christo KS	2020-21	Introduction to Data Science	6 days	IBM
Christo KS	2020-21	RPA Developer Foundation	6 days	UI Path
Abhinav sb	2020-21	Classify Radio Signals from Space using Keras	1 week	Coursera
Akshara S	2020-21	RPA Developer Foundation	2 weeks	UIPATH
Christo KS	2020-21	Introduction to the Internet of Things and Embedded Systems	6 days	University of California
Akshara S	2020-21	AI for INDIA, Python programming	1 day(24 hours)	GUVI (IIT-M Startup) and AICTE
Gowri Prasad	2020-21	programming for everybody	7 weeks	university of Michigan
Ameer Mohamed K.M	2020-21	AI for everyone	4 weeks	Coursera
Amulya KM	2020-21	Python data structure	7 week	Coursera Michigan University
Farsana K. A	2020-21	Introduction to the RPA Developer Role	1 Month	UI Path
Dona Das	2020-21	RPA Foundation Skill Assessment	1 Day	UIPATH
Ameer Mohamed K.M	2020-21	google analytics	4 weeks	google analytics
JERIN JOY	2020-21	online course	30.5 hours	Udemy
Christo KS	2020-21	Machine Learning for Data Science and Analytics	6 days	ColumbiaX
JACOB SHAJAN	2020-21	Python Data Structures	7 week	Course era
Emilin Mary Kooottala	2020-21	Programming for Everybody (Getting started with Python)	7 Weeks	Coursera
Christo KS	2020-21	Deep Learning Fundamentals with Keras	6 days	IBM
JAGATHKRISHNA P	2020-21	PYTHON DATA STRUCTURES	7 WEEKS	COURSERA

Jain Joy	2020-21	COVID-19 Contact Tracing	4 weeks	coursera
JERIN JOY	2020-21	online course	2 hour 11 minutes	linkedin learning
SEETHA M N	2020-21	INTRODUCTION TO CLOUD IDENTITY	1 DAY	COURSE ERA
V S MUHAMMED SHIFAS	2020-21	Getting Started with AWS Machine Learning	1 DAY	COURSE ERA
V S MUHAMMED SHIFAS	2020-21	Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Applications	1 DAY	COURSE ERA
SRILEKSHMI J NAIR	2020-21	Getting Started with AWS Machine Learning	1 DAY	COURSE ERA
SRILEKSHMI J NAIR	2020-21	Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Applications	1 DAY	COURSE ERA
SRILEKSHMI J NAIR	2020-21	code yourself! An Introduction to Programming	1 DAY	COURSE ERA
Santhanu Prasad	2020-21	code yourself! An Introduction to Programming	1 DAY	COURSE ERA
Santhanu Prasad	2020-21	Getting Started with AWS Machine Learning	1 DAY	COURSE ERA
Santhanu Prasad	2020-21	Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Applications	1 DAY	COURSE ERA
SACHIT SEBASTIAN	2020-21	aerospace engineering	3.5 HOURS	UDEMY
SRADHA SREEKUMAR	2020-21	PLANNING A MACHINE LEARNING PROJECT	30 MINUTES	AWS TRAINING
SRADHA SREEKUMAR	2020-21	INTRODUCTION TO ML:ART OF THE POSSIBLE	30 MINUTES	AWS TRAINING
SAYUJYA	2020-21	DEVELOP A COMPANY WEBSITE WITH WIX	1 DAY	COURSE ERA
SAYUJYA	2020-21	BUILD A FULL WEBSITE WITH WEBPRESS	1 DAY	COURSE ERA
SAYUJYA	2020-21	USE CANVA TO DESIGN DIGITAL COURSE COLLATERAL	1 DAY	COURSE ERA
SWETHA KALYANI M K	2020-21	PYTHON FOR MC LEARNING	1 DAY	GREAT LEARNING

SWETHA KALYANI M K	2020-21	SMART ENGLISH BASICS FOR PROFESSIONALS	1 DAY	GREAT LEARNING
SWETHA KALYANI M K	2020-21	PROGRAMMING BASICS	1 DAY	GREAT LEARNING
SWETHA KALYANI M K	2020-21	DIGITAL MARKETING	1 DAY	GREAT LEARNING
THEERTHA R L	2020-21	SMART ENGLISH BASICS FOR PROFESSIONALS	1 DAY	GREAT LEARNING
THEERTHA R L	2020-21	INTRODUCTION TO DIGITAL MARKETING	1 DAY	GREAT LEARNING
THEERTHA R L	2020-21	PYTHON FOR MC LEARNING	1 DAY	GREAT LEARNING
THEERTHA R L	2020-21	PROGRAMMING BASICS	1 DAY	GREAT LEARNING
VANDANA P	2020-21	AI FOR EVERYONE	1 DAY	COURSE ERA
VISHNU SUBI	2020-21	INTRODUCTION TO IOT	1 DAY	CISCO

## Hobby Club activities

The Hobby Club was introduced in the year 2018 with the objective to improve the hands-on skills of students and create more skills and knowledge about the topics outside the curriculum. The club drew colossal contemplation from all batches of ECE students and the competitions organized by the club received good response. Several activities were hosted by the club like Project Exhibition by final and pre-final year students, Electronic Product Design Competition for second year and third year ECE students etc. These activities gained heavy ovation from all strata of people.

## Online quiz competition

Hobby club, an initiative of Department of ECE, FISAT, in association with ECHO organized an online multiple choice quiz competition on "Arduino Boards" on 12<sup>th</sup> July, 2021-Monday.

Quiz competitions are always interesting and informative, which provide excitement among the Students. The main objective of this event is to make them aware of recent developments in arduino platforms. The Quiz was unique in itself because it was held on virtual platform. Rules and regulations of the quiz were explained at the beginning and followed by the quiz.

The event helped students to identify what they know and what they don't know. The participation in online Quiz showed that the students really like these platforms in which they can take part from any place.

The first, second and third prizes were won by Santhwana T, Emilin Mary Koottala, Aswin Krishna of third year ECE students respectively.

## PLACEMENT STATISTICS 2020-2021

The ECE Department takes immense pride in announcing the successful culmination of the Final Placement season for the ECE batch of 2020-21 and would like to sincerely acknowledge the effort and contribution of every individual who has paved the way in raising the stature of FISAT. The number of students placed through the campus interviews is continuously rising. We have been successful in maintaining high placement statistics over the years and this itself is a testimony to our quality. The ECE batch of 2020-21 had more than 90 students participating in the placement process which involved major recruiters like Cadence, TCS, IBM, SAP, WIPRO, Infosys, DCT, UST, CTS, VVDN .among others

SL NO	Name of the Student	Company Placed
1	ADITHYA NARAYANAN	TCS
2	AKHIL K JOY	Speridian, UST, SFO Technologies
3	ALAN PAUL TOM	Infosys, CTS, Tessolve Semiconductor
4	ALITALIYA CHACKOCHAN	TCS, UST, Sutherland
5	ALLWIN DENNY	Infosys
6	AMALA BIJU	H&R Block, Sutherland
7	AMITH JOSE	TCS, ITC Infotech, UST, Sutherland
8	ANANTHA J SIVAN	6D Technologies
9	ANANTHA KRISHNAN P	TCS
10	ANCHITH RAJENDRA	TCS
11	ANJALA ANSARI	Quest Global, Capgemini, UST, Accenture, Sutherland
12	ANJALI MURALI	TCS, Infosys
13	ANN MARIYA PAUL	US Technology, CTS, Sutherland
14	ANSHAMOL P A	TCS, Accenture, Quest Global
15	ANUDEEP S MANOJ	Accenture, Wipro, Quest Global
16	ANU MARY JOY	Sutherland
17	ARCHANA MENON P K	Mindtree, UST, Sutherland
18	ARCHANA S	Sutherland
19	ARVIND SIMON POKKAMTHANAM	G10X India Pvt Ltd, Sutherland
20	ASHLIN P ANSILY	Infosys, Sutherland
21	ASWIN UDAYAN	TCS
22	ATHUL RAMESH	TCS, Qburst, UST, Sutherland

23	AYSHA FEMI P C	Infosys, FACE, UST, CTS, Sutherland
24	CANDICE DARVIN	Quest global, Sutherland
25	DEEPEND P	CTS, UST, Accenture
26	DEVADATHAN C	Impaqtive
27	DEVIKA S	TCS, H&R Block
28	DILNA K PAPPACHAN	TCS
29	ELIYAS MATHEW	Infosys, Tunerlabs, Sutherland
30	EMIL ELEZABETH	TCS, US Technology
31	FYNA FRANCIS	UST, Quest global
32	GODWIN VARGHESE	Master Tech Marine Systems, Sutherland
33	GOKUL KRISHNA H MENON	TCS
34	GOURI VINOD	US Technology
35	HARIKRISHNAN K M	US Technology
36	IRENE M V	TCS
37	JANVY	People10, Sutherland
38	JITHIN JAIMY	Quest global
39	JITHIN PAULSON	SOTI, TCS -Digital
40	JIYA MARIAM PAUL	Speridian, FACE
41	JOBLE VARGHESE JOSEPH	US Technology, ITC Infotech
42	JOEL GEORGE	Quest global, FACE
43	JOMA ELSA JOY	TCS
44	KAILASNATH H	TCS, Wipro
45	KARTHIKA CHERUVODANMARU HOUSE	TCS
46	MABLE ROSE JOHN	US Technology
47	MAHITH SANTHOSH C	TCS
48	MEERA R	TCS
49	MEGHA P S	Mindtree
50	M VARATH SURYA	Wipro, Travancore Analytics, 6D Technologies

51	NANDA K R	TCS
52	NANDA KRISHNAN V K	TCS, Sutherland
53	NAVNEETH P J	Ruby Seven Studios, BYJUS APP
54	NAYANA V M	Sutherland, Survey Sparrow
55	NEETHU JAYAKRISHNAN	Infosys
56	NITHIN BENNY	TCS, Infosys
57	RAHUL MENON	Sutherland
58	RAJALAKSHMI A R	TCS
59	RAKENDU K	Infosys
60	ROHAN BIMAL RAJ	Travancore Analytics, Sutherland
61	RUPAN C VARGHESE	TCS, Wipro

62	SADIYA NAZAR	CTS
63	SARIKA S KAMATH	Infosys, TCS
64	SHYAM SANKAR P	TCS
65	S SREYA	Survey Sparrow, Sutherland
66	SWETHA P S	TCS
67	UPANYA U PAI	People10
68	VIGNESH P	Wipro, Infosys, People10
69	VINAYA BABU	People10
70	VIPIN SURESH P	Infosys, OEN, UST, BYJUS APP, FACE
71	VISHNU K S	Qburst
72	VISWANATHAN K D	TCS

## STUDENT PARTICIPATION IN CO-CURRICULAR AND EXTRACURRICULAR ACTIVITIES

DATE	EVENT (eg:-Arts-Arangu,Brahma, etc, Tech Fest- NAUTILUS)	Category	Name of the student	Name of the Institution where event conducted
01-08-2020	Mathematical Quiz -2020	Quiz Competition	Manish Pillai	St.Aloysius' College,(Autonomous), Jabalpur,Madhya Pradesh
01-08-2020	Matematical Quiz -2020	Quiz Competition	Keerthi P M	St.Aloysius' College,(Autonomous), Jabalpur,Madhya Pradesh
04-07-2020	MATH QUIZ 2020	Quiz Competition	Sandra Mariya	Voorhees College, Vellore
04-07-2020	MATH QUIZ 2020	Quiz Competition	Santhwana T	Voorhees College, Vellore
02-07-2020	National Level Online Quiz on General Mathematics	Quiz Competition	Joseph Paul	The Bapatla College of Arts &Science, Bapatla
02-07-2020	National Level Online Quiz on General Mathematics	Quiz Competition	Manish Pillai	The Bapatla College of Arts &Science, Bapatla
Jul-20	State level Quiz	Technical awareness	Christy sebi	STUMAGZ
Jul-20	State level Quiz	General Technical Awareness	Aswin J	STUMAGZ
Jul-20	Intercollegiate level Quiz	Life and contributions of Dr.A.P.J Abdul kalam	Christy sebi	PG &Research department of mathematics

Jul-20	State level Quiz	General Technical Awareness	Aswin J	STUMAGZ
Jul-20	State level Quiz	State level tech quiz of general technical awareness	Amar PK	<a href="http://Stumagz.com">Stumagz.com</a>
Jul-20	State level Quiz	Tech Quiz	Aakash S	STUMAG
Jul-20	State level Quiz	Life and achievements of kalam	Arya N A	PG and research department of mathematics
Jul-20	State level Quiz	Tech Quiz	Gopika Rajesh	STUMAGZ
Jul-20	State level Quiz	Tech Quiz	Ajaikrishna B	STUMAGZ
Jul-20	State level Quiz	Technical awareness	Catharine sebi	STUMAGZ
Jul-20	State level Quiz	Technical Awareness	Athira Ramesh	STUMAGZ
Jul-20	State level Quiz	Tech Quiz	Gopika Rajesh	STUMAGZ
Jul-20	State level Quiz	Tech quiz on General Technical awareness	Aahna Maria Issac	STUMAGZ
Jul-20	State level Quiz	Tech quiz	ASHLI NASEER	STUMAG
Jul-20	State level Quiz	Tech quiz	Aravind S	STUMAGZ
Jul-20	Intercollegiate level Quiz	Life and contribution of Dr. kalam	Catharine sebi	PG and research depart. Of mathematics
Jul-20	State level Quiz	Tech quiz on general technical awareness	Arjun P	StuMagz
Jul-20	State level Quiz	TECH QUIZ	Ashli Nazeer	STUMAGZ
Jul-20	Intercollegiate level Quiz	Life & Contributions of Dr APJ Abdul Kalam	Athira Ramesh	PG& ResearchDept of Mathematics,St Peter's College ,Kolenchery
Jul-20	State level Quiz	Tech quiz	Alexander Jacob	Stamagz
Jul-20	State level Quiz	TECHNICAL AWARENESS	Godly Laiju	STUMAGZ
Jul-20	State level Quiz	State Level Tech Quiz on General Awareness	Arya S	STUMGAZ
Jul-20	State level Quiz	State level tech quiz by Stumagz	Ashwin Murali Nair	Stumagz

Jul-20	State level Quiz	General Technical Awareness	Jewel M Jackson	STUMAGZ
Jul-20	Intercollegiate level Quiz	Life & Contributions of Dr. A P J Abdul Kalam	Helen Maria Renjith	St. Peter's College
Jul-20	State level Quiz	Tech Quiz on General Technical Awareness	Helen Maria Renjith	STUMAGZ
Jul-20	Intercollegiate level Quiz	Life & Contributions of Dr. A P J Abdul Kalam	Helen Maria Renjith	Department of Mathematics, St. Peter's College
Jul-20	State level Quiz	Tech Quiz	Harisankar S	STUMAGZ
Jul-20	State level Quiz	Technical Awareness (Tech-quiz)	Chippy Paul	STUMAGZ
Jul-20	State level Quiz	General technical awareness	Angelin varghese	Stumagz
Jul-20	State level Quiz	GENERAL TECHNICAL AWARENESS	Adithya Dileep	STUMAGZ
Jul-20	State level Quiz	General Technical Awareness	Amal Madhav K G	Stumagz
Jul-20	State level Quiz	Life and Contribution of Kalam	Bhavana v nath	PG and research department of mathematics
Jul-20	State level Quiz	Tech quiz	Annet George	STUMAG
Jul-20	State level Quiz	Tech Quiz on general technical awareness	Alvin Paul	STUMAGZ
Jul-20	Intercollegiate level Quiz	Life and Contribution of Dr APJ Abdul kalam	Adithya Dileep	PG and research department of mathematics
Jul-20	State level Quiz	Tech quiz	Hrithudev vs	STUMAG
Jul-20	State level Quiz	Life and achievements of kalam	Hrithudev vs	PG research development of mathematics
Jul-20	State level Quiz	Technical awareness (techquiz)	Ishika Trony	Stumagz
Jul-20	Intercollegiate level Quiz	Life and Contribution of Dr APJ Abdul kalam	Arya S	St peter's college kolenchery, kerala

Jul-20	State level Quiz	General Technical Awareness	Jayadev G	STUMAGZ
Jul-20	State level Quiz	General technical awareness	Bhavana v nath	STUMAGZ
Jul-20	State level Quiz	Tech quiz for general technical awareness	Amal Nadh K	StuMagz
Jul-20	Intercollegiate level Quiz	Life and contributions of Dr. APJ Abdul Kalam	Chippy Paul	Department of Mathematics, St. Peter's College ,Kolenchery,Kerala
Jul-20	State level Quiz	general technical awareness	Angel paul	stumagz
Jul-20	State level Quiz	Tech quiz	Alby Saji	Stumagz
Jul-20	Intercollegiate level Quiz	Life and contributions of Dr. APJ Abdul Kalam	Christeena Joy	Department of Mathematics, St. Peter's College ,Kolenchery,Kerala
Jul-20	State level Quiz	Registrar general and sensus commission	Bhavana V Nath	my gov
Jul-20	State level Quiz	vigilant India prosperous India	Bhavana v nath	my gov
Jul-20	National level quiz	cyber security	Bhavana V Nath	Department of information Technology,Governme nt of Goa
Jul-20	Intercollegiate level Quiz	CELESTIA 2020	christy sebi	ACM FISAT
Jul-20	State level Quiz	cyber security	Aahna Maria Issac	my gov
Jul-20	National level quiz	Cyber Security	Adithya Dileep	Department of information Technology,Governme nt of Goa
Jul-20	State level Quiz	Technical awareness	Alha Mariya Antony	STUMAGZ
Aug-20	State level Quiz	Independent day quiz competition	Annet George	Mahaguru institute of technology
Aug-20	State level Quiz	Swatantra Bharat quiz	Annet George	Ministry of defence
Aug-20	State level Quiz	Swatantra Bharat quiz	Bhavana V Nath	Ministry of defence

Aug-20	National level quiz	Swatantra Bharat quiz	christy sebi	Ministry of defence
Aug-20	National level quiz	Ministry of ayush	christy sebi	Ministry of ayush
Aug-20	National level quiz	Swatantra Bharat quiz	catharine sebi	Ministry of defence
Aug-20	National level quiz	Ministry of ayush	catharine sebi	Ministry of ayush
Aug-20	National level quiz	STIP 2020	Godly Laiju	MY GOV
Aug-20	National level quiz	AYUSH	Godly Laiju	MY GOV
Aug-20	National level quiz	Dekho apna desh	Godly Laiju	MY GOV
Aug-20	National level quiz	Swatantra Bharat quiz	Chippy Paul	Ministry of defence
Aug-20	National level quiz	Swatantra Bharat quiz	Gopika Rajesh	Ministry of defence
Nov-20	QUIZ	DRONA 2020	Chippy Paul	IMM Indore
23-04-2021	Games	Quiz competition	Joshua Alex Mathews	IEEE
26-04-2021	Games	Paperscripta	Joshua Alex Mathews	IEEE
25-04-2021	Games	Master Mind	Joshua Alex Mathews	IEEE
07-04-2021	Games	Power Play	Joshua Alex Mathews	IEEE
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Karun C Sunil	ECHO, FISAT
18-05-2021	Games	Online AIDS Awareness QUIZ	Karun C Sunil	Department forum E. L. A. N along with NSS , S.B.J. I. T. M. R
17-05-2021	Games	WORLD TELECOMMUNICATION DAY QUIZ	Karun C Sunil	IEEE PES MEA SBC
29-04-2021	Games	Geotechnico Quiz	Megha P Chandran	IEEE SB MCE
26-04-2021	Games	Clutter Cross word puzzle solving competition on RF and Microwave Domain	Megha P Chandran	IEEE APS AND MTTTS STUDENT BRANCH CHAPTERS GECBH

26-04-2021	crossword puzzle	competitions conducted by professional societies	Mehanas C M	IEEE APS and MTTs
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Mohammed Faris	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Muhammed Nihal T M	ECHO, FISAT
27-02-2021 to 28-02-2021	Games	SCIENCERA 21 - National Level Quiz competition	Muhammed Nihal T M	FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Muhammed Shahin U	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Nandhitha Lakshmanan	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Nimmy Joshy	ECHO, FISAT
07-04-2021	Competitions conducted by professional societies	Power Play quiz	Nivedhitha. M	IEEE FISAT
07-04-2021	Competitions conducted by professional societies	Moclet	Nivedhitha. M	IEEE FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Nivedhitha. M	ECHO, FISAT
07-04-2021	Fisat-online	Power Play quiz	Nivedhitha. M	IEEE
17-05-2021	Online	Moclet quiz	Nivedhitha. M	IEEE
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Nova P.G	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Noval Bobby Antony	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Paul Kudiyirickal	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Pranav V P	ECHO, FISAT

29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Praveen	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Rohin Chand. R. S	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Rohit K	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Sandra Babu	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Sanjana G Pai	ECHO, FISAT
29-04-2021	Game	Geotecnico Quiz competition conducted Marian College of Engineering	Sanjana G Pai	IEEE SB Marian College Of Engineering
03-05-2021	Game	RIDDLE IT	Sanjana G Pai	IEEE SB AJCE,IEEE SB VAST, IEEE SBPEC
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Sebastian Jose	ECHO, FISAT
27-02 to 28-02	Games	SCIENCERA-21, National Level Quiz Competition	Sebastian Jose	FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Shakir Sidhik	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Sheetal Santhosh	ECHO, FISAT
29-05-2021	Poster presentation	Poster presentation on the topic "Iron dome"	Sisira Sreenath	ECHO, FISAT
29-04-2021	Game	Geotecnico Quiz competition conducted Marian College of Engineering	Sisira Sreenath	IEEE SB Marian College Of Engineering
26-04-2021	Game	CLUTTER	Sisira Sreenath	IEEE APS and MTTS SBC GECBH
08-05&09-05-21	Game	Chess Contest	Sisira Sreenath	IEEE
04-05-2021	Game	CAPTURER LE MOMENT	Sisira Sreenath	IEEE

## Alumni Speak

As a student of Electronics and Communication department, I was able to develop not only as a student but also as a person. Being around amazing faculties of my department made every difficult step easier. They were true mentors who stood alongside us in shaping our career. Whenever we stumbled, we went to our group advisors who always heard us and helped us out. As a member of various student organizations in college, I got immense support from my department in participating and volunteering for different events. For anybody who aspired to be innovative and grow, ECHO was the best initiative put forward by ECE department. I enjoyed my time being in the ECE department with my classmates and beloved teachers which I would cherish forever.



**Nanda K R**  
ECE 2017-2021



**Devika S**  
Salesforce Developer  
CommunityAmerica Credit Union

ECE 2017 - 2021 A Batch

Since 2017, FISAT has been an art for me. An art that made the best out for me. FISAT molded me into a brave girl from a weak girl. When I look back into 2017 and 2021, now I see me as a better human filled with richness in personality, character and in academics. The teachers and staffs have always been supportive for bringing up the students. Also the extra curricular activities made me into a strong fearless character. FISAT had given me equal opportunities in academics and non academics. I have been able to successfully manage my co curricular activities along with academics. All I'm now is because of FISAT. I'm always grateful to the management and staff for making me better. Thank you so much for everything FISAT has provided me and I'm sure everyone else has experienced the same kind in college.



## FACULTY



Sheelu Susan M



Sreelekshmy S



Elza George



Gayathri I K



Noble G

# Newsletter COMMITTEE

## STUDENTS

- |                      |          |
|----------------------|----------|
| 1. Devika S,         | S8 ECE A |
| 2. Reshma R Pillai,  | S8 ECEB  |
| 1. Santhwana T,      | S5 ECE B |
| 2. Nandini K S       | S5 ECE B |
| 3. R Aishwarya,      | S3 ECE B |
| 4. Praharsha Sooraj, | S3 ECE B |
| 5. Annet George,     | S3 ECE A |
| 6. Christy Sebi,     | S3 ECE A |