



# FISAT | FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### 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.

The department has eight well equipped state of the art laboratories to provide the students with the necessary and sufficient backing of practical knowledge, besides encouraging them to try out their innovative research and development ideas. These laboratories provide facilities in the areas of Electronic Devices and Circuits, Linear and Digital Integrated Circuits, Microprocessors, Microcontrollers, SDR, Digital Signal Processing, Microwave Engineering, Optical Communication and Antenna Design. The laboratories are also equipped with the latest versions of software like SCILAB, CADENCE Design Suite, ANSOFT simulation software, SPICE Tools, Xilinx ISE, VIVADO, GNU RADIO COMPANION, MATLAB etc. The class rooms are also equipped with the latest audio and visual teaching aids.

The department has consistently achieved excellent results in the university examinations and also has a very good placement record. Students of the department bagged the first rank in the MG university examination in the years 2010 and 2012, and in the KTU examination in the years 2019 and 2020 for the B Tech course. The first rank and third rank of the M Tech Communication Engineering of the 2010 – 2012 batch and the first rank of the M Tech VLSI and Embedded Systems of the 2014 – 2016 batch, were bagged by the students of the department.

The students of the department have always got good offers from companies like Robert Bosch, DCT, VVDN, TCS, UST Global, IBS, RMESI, COREAL, Speridian, Tata Elxsi, Kalki Tech, Procsys etc.

Experts from the industry are periodically invited to give lectures/ demonstrations to the students on the latest developments in the field. Students are given exposure to industries by industrial visits and industrial training sessions. Students undertake training in reputed industries like BSNL, Keltron, FACT, CIAL, AirIndia, OEN, Tata Communications, etc.

As part of the faculty development program, the staff members are encouraged to attend seminars and workshops in the different areas of Electronics and Communication Engineering. Many programs like conferences, workshops, technical quizzes, project exhibitions, design contests, paper presentations, personality development courses etc are conducted by the department.



### 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

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**Mr. Shimith P R**  
*Chairman*

A glorious stride unleashing its might in full vigour adding to the tremendous fame of FISAT- this is how I would like to pen down the performance of Electronics & Communication Department. Strenuous efforts by the team of faculty is visible in all aspects- be it academic or co-curricular and this is the pivotal factor contributing to the eminence of Department as an entity. Excellent placement records, glorious academic laurels, competitive projects incorporating latest technology recalls the assiduous nature of the Department as a team. On the occasion of release of 7th volume of Department newsletter- Electronica, I extend my hearty felicitations to the team of faculty and students behind it.

Being at the zenith of excellence and to succeed in all realms, are matters of precedence to Department of ECE, FISAT. Outstanding academic results, splendid placement statistics and stalwart faculty are the best paradigms in this regard. To evince the numerous achievements and to incentivize the upcoming batches of budding electronic engineers, the Department is releasing 7th volume of its newsletter series- ELECTRONICA. I would like to hold the efforts of team ECE in high regard and extent my warm wishes to the team behind Electronica.



**Dr Manoj George**  
*Principal*



**Dr C. Sheela**  
*Vice Principal*

Words are not enough to pen down the meticulous efforts put in by the Department of ECE to accrue numerous laurels in various realms. Various intra departmental cells like ECHOI, Hobby club etc add to the mettle of ECE by igniting the spark of wisdom in budding engineers through various brain racking competitions. The enthusiasm of faculty is propagated by students too and they stand in the forefront to organize various programs and to bring out innovative projects. I feel venerated to extend my commendations to team behind Electronica volume 7 for the strenuous efforts in realizing this.

Yet another milestone reached by Department of ECE- releasing of newsletter ELECTRONICA- Volume 7. Kudos to the team behind Electronica for accomplishing this. The work highlights a cachet of genius. During this period, Department was returning to full fledged contact classes after the online classes in the previous year due to covid impact. Entire team of ECE did a fabulous role in bringing the students back to pace in curricular and co-curricular activities.



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



**Dr. Mini P R**

*Dean, Academics.*

FISAT has always strived to endow our students with a platform to broaden their horizons and in the process provide them with holistic education. The department of Electronics and Communication Engineering has played a vital role in arming students with technological supremacy integrated with human values. I am happy that the Department of Electronics and Communication Engineering is bringing out the seventh volume of its newsletter “ELECTRONICA.”.

I commend the editorial team on their effort to provide a concise summary of the accomplishments and activities of the department to all of its stakeholders and well-wishers through this publication. Best wishes for all your endeavors.

## 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.

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.

Student representatives of ECHO - Electronics & Communication Heuristics Organization		
Semester	Div	Name
S3	A	Aarcha Santhosh
		Fathima Nihma
	B	Paul S Antony
		Nandhitha Lakshmanan
S5	A	Aswin Sreeraj
	B	Ishika Trony
		R Aishwarya
S7	A	Jose Ben
		Gowri Prasad
		FOUSIYA P MANAF
	B	Nandini K Sanilkumar
		Job Sajan John

Staff representatives of ECHO - Electronics & Communication Heuristics Organization		
Name of the faculty	Designation	
Dr. Anil Kumar M N	Professor & HoD, ECE	
Mr. Basil K Jeemon	Asst. Prof, ECE	Staff in charge
Ms. Ambily A R	Asst. Prof, ECE	
Ms. Vinitha V	Asst. Prof, ECE	
Ms. Sreelekshmy S	Asst. Prof, ECE	
Ms. Manju C P	Asst. Prof, ECE	Treasurer
Ms. Anu K Kuriakose	Asst. Prof, ECE	

# ACTIVITIES REPORT OF THE ECHO FOR THE ACADEMIC YEAR 2021-22

## AGNITIO 2k21



Virtual Project Expo for the year 2021 was held on 13th 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 valued the students' projects. Also, they have given a project briefing on areas and how the students could improve their projects for the future.

The Best Outgoing Student Award was announced by Dr Manoj George, Principal, FISAT. Ms Devika S was the award winner. Hima Memorial Endowment award winners were announced by Dr C Sheela, Vice Principal, FISAT. The award winners were R Aishwarya of S4 ECE and Ajith James of S6 ECE. The Best project award and Most Popular Project Award were announced by Dr Mini P R, Dean, Academics. 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 title winner was the project named 'Tele Melanoma Detection Module' and the team members were Reshma R Pillai, Rajalakshmi A R, Nanda K R, Megha P S. There was also a demonstration video of the best project from the Website of Agnitio 2k21.

The winners of the Hobby Club event were announced by Dr Anil Kumar M N, HoD, ECE Dept. The winners were Santhwana T, Emilin Mary Koottala, Aswin Krishna M M. The event ended with a vote of thanks by Reshma R Pillai, Secretary of ECHO.



### ***Scilab Coding Competition***

A coding competition on Scilab was conducted on 17th Jan, 2022 by ECHO (Electronics and Communication Heuristics Organization), the association of ECE. Scilab is free and open-source software for numerical computation providing a powerful computing environment for engineering and scientific applications. In recent years, Scilab has proved itself to be an alternative to MATLAB, which is a paid software. The competition was open to all 2nd and 3rd-year students of ECE. Three teams, 2 members each enrolled for the competition.. The coding competition enlightened the programming skills of students and encouraged them to learn the coding language better.

1st Position: Joshua Alex Mathews, Joyal Gigi  
2nd position: Navya Jose, Nimmy Joshy  
(Students of S3 ECE)

### ***Workshop on Introduction to Machine Learning***

A Workshop on Introduction to Machine Learning(in association with ECHO) was conducted by Ms.Elza George, Ms. Sreelekshmy S, Ms. Gayathri I K for S5 ECE Students on 15/0/2022 and 17/02/22.

This workshop introduced several fundamental concepts and methods for machine learning. The objective is to familiarize the students with some basic learning algorithms , techniques and their applications, as well as general questions related to analyzing and handling large data sets.

### ***A Technical talk on “Microwave radiation-Myths and Facts”***

ISTE Chapter, FISAT in association with Electronics and Communication Engineering Department of FISAT and ECHO, the association of ECE students of FISAT has organised a Technical Talk on “Microwave Radiation – Myths and Facts” on 29-01-2022 at 10am. The program started with the welcome speech by Mr. Benoy Abraham, Secretary, ISTE Chapter of FISAT. Mr. Basil K Jeemon. Assistant Professor, Dept. of ECE, FISAT was the resource person and has delivered an excellent talk on microwave radiation.

Program covered various facts and myths about microwave radiation .The resource person was successful in bringing out various uses of microwave in day to day life. 35 students and faculty from various departments participated in the program.

The session received excellent feedback from both students and faculty.

### ***Treasure Hunt***

The Department of Electronics and Communication of FISAT in association with ECHO Conducted an online Treasure Hunt event for the students of the department. The event was held through online platform (Webex) at 8:00pm. There were two rounds with 10 questions each and there were 7 groups with 12 participants in each. The winners of the first round from each group were qualified to participate in the second round. The event was well organized with the help of Faculties and volunteers of ECHO.

Winners of Treasure hunt (ECHO event) :  
1st position : Rose Mary Thomas, student, S3 ECE A  
2nd position: Swathy Sajeev, student, S3 ECE A  
3rd position : Vimal M, , student, S1 ECE B



### **Webinar - Passion To Profit**

The department of Electronics and Communication in association with the Electronics and Communication Heuristics organization (ECHO) conducted the Alumni Series Webinar on 1st March 2022 from 11 am to 12 pm. The session was handled by Ms. Raeesa Manaal and the topic for the session was 'Passion to Profit'. She is a System Assistant Engineer at TCS. She is also a blogger and an entrepreneur. The session started with a prayer and a welcome speech was given by Ms. Sreelekshmy S, Assistant Professor FISAT. The speaker spoke about her experiences at the college and how she prepared for placements and at the same time developed her passion for blogging and business. She also gave an idea of how she was able to convert her interests in arts and craft to a business plan. Speaker also spoke about how she was able to be a successful blogger, entrepreneur, and system Assistant engineer at the same time. It was a motivational and informative session that gave an idea on how to convert your passion into a career. There was a feedback segment where the participants of the webinar gave excellent feedback on the event. The session was followed by a Q and A session. The Vote of Thanks was given by Ms. Vinitha V, Assistant Professor FISAT.

### **Expert Talk on " MIMO Techniques for Wireless Communication "**

As a part of the ECHO club, FISAT ECE S8 2018 Admission batch had an expert talk on 17th May, 2022. Students were given an introduction about MIMO Techniques in Wireless Communications and the recent research idea in the field by Mr. Basil K Jeemon, Assistant Professor ECE Department FISAT. He is currently undergoing research in the related field under Cochin University of Science and Technology.



Multiple input, multiple output (MIMO) RF architectures have been studied for decades, but the technology was historically reserved for high-end systems. MIMO systems increase the number of antennas from one to four or more. Thus, in order to deliver MIMO functionality, an RF transceiver must be able to control multiple antennas simultaneously while transmitting or receiving. The technique requires complex processing and switching that provides control over each antenna. As expected, the added complexity increases cost and design time.

MIMO is used in many modern wireless and RF technologies, including Wi-Fi and Long-Term Evolution (LTE). 3GPP, the global organisation responsible for the definition of wireless standards, first specified MIMO for LTE in 2008, in its Release 8. This initial variant used two transmitters and two receivers, 2x2 MIMO, and subsequent increases in processing power have enabled the use of more simultaneous data streams in wireless networks with current 4G LTE networks using 4x4 MIMO. The increase in performance of 5G New Radio (NR) is based on a number of key technologies (including Massive MIMO and Beamforming) and the use of OFDM, a highly spectral-efficient modulation technique, and mmWave spectrum.



### ***Technical rewriting Competition-ESCRITURA TECHNICA***



Technical rewriting Competition-named “ESCRITURA TECHNICA” had been conducted in Systems Lab on 26 May 2022. It was started at 10 am. 39 students from S4, S6 ECE participated in the competition.

Joyal Gigi of S4 ECE B won the first prize and Nivedita Mathew of S6 ECE B got the second prize in the competition

### ***Technical Quiz- Cogniz***

The Electronics and Communication Engineering Department of FISAT in association with ECHO conducted a technical quiz “COGNIZ” for the 2nd and 3rd year B.Tech students. The program initially was planned to be conducted on 27th May 2022 and later postponed to 31st May 2022. As part of the quiz ,first round was conducted on 30th May 2022 and second round was on 31st May 2022. The Prize distribution was held on 02nd June 2022.

Prize distribution ceremony was on June 2nd, 2022



### ***Workshop on "Digital Front End Design "***

Department of Electronics and Communication, in association with ECHO (Electronics & Communication Heuristics Organization)) organized a workshop on “Digital Front End Design” as a part of AGNITIO 2k22 on 2nd June 2022. Dr. Krishna Kumar S., Professor and HoD ECE Department and Mrs. Dhanya S., Assistant Professor ECE Department were the resource persons. Mrs. Bini T Abraham of ECE Department provided the technical assistance for the same.



Forty nine students from 4th semester ECE B batch attended the workshop. Students were given an insight into the recent advancement of semiconductor technologies. They could understand the basics of creation of a functional chip from scratch to production and also the various stages of front end design flow in detail



### ***Workshop on Software testing***

As a part of the ECHO club, and as part of Agnitio-2k22, FISAT ECE S2-A 2021 Admission batch had an expert talk on 02nd June, 2022. Students were given an introduction about software testing and the recent job opportunities in the field. This talk was given by our MTECH ECE COEN Anjana P.N, Akhila M.P(COEN) and Ranjana S (VLSI) (2020 admn) students. Mrs. Ambili A. R, Assistant professor ECE, was also helped the students in this venture. The talk was started by giving an introduction to the software testing and the importance of testing, principles of testing, roles and the responsibilities of testing. The talk explains about the different software testing like manual and automation testing. Manual testing, concept is introduced through a small practical session done with the help of AMAZON website.

Automation testing which utilised to remove the limitations of manual testing is also introduced. In the talk, the Selenium suite, a tool which is widely utilised in automation testing is also explained. Selenium IDE, Selenium Remote Control (RC), Selenium Webdriver and Selenium Grid were also taken. The talk also explains why selenium is considered as the best tool for Automation Testing Tool. The class also addresses the disadvantages of Selenium. And the talk was concluded by briefing the different career paths of testers.

### ***Workshop On Latex***



Competence in technical writing holds great importance in the present era. Technical writing deals with specific knowledge, generally in the sphere of science and technology, and may be used in a wide variety of media: journal papers, thesis, project proposals, and other technical documents. LaTeX is a document typesetting system that is used to produce high quality scientific documents, like articles, books, dissertations, technical reports, etc. Expertise in drafting technical documents is an indispensable skill for all professionals for it helps them to share their knowledge of technical subjects effectively in all domains of society and thus makes them competent in their professional career.

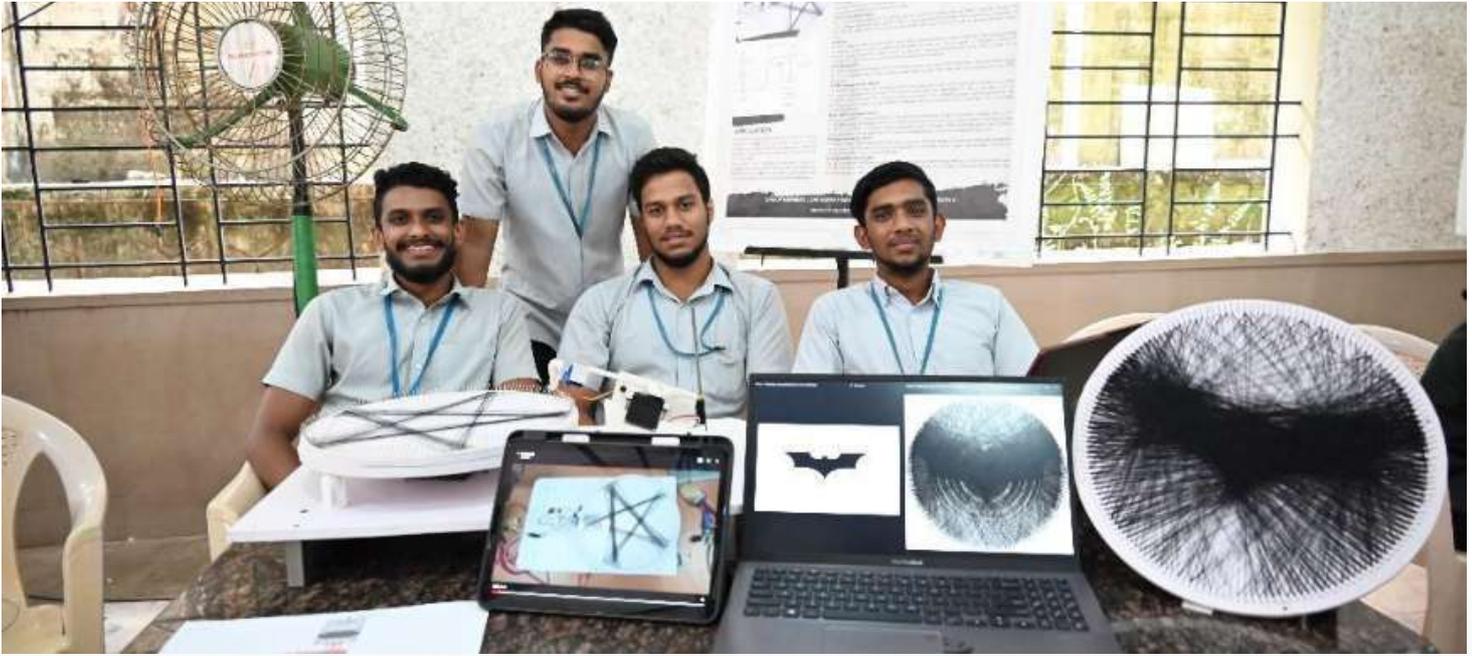
This workshop has been designed to provide a clear understanding of the basics of technical writing which will enable the participants to communicate their ideas effectively in the form of technical reports, journal papers etc., by using the technical writing tool LaTeX. Further, Beamer is a LaTeX document class for creating slides for presentations.

The workshop includes sessions by experts who will focus on topics like innovative methods for enhancing one's technical writing skills, use of technical terminology for information transfer, satisfying document specifications like style and format, page layout and organizational structure, and principles of accuracy and clarity.



### ***Expozest the Project Expo 2022***

EXPOZEST the Project Expo of the final year ECE students for the year 2022 was held on 2nd June 2022 conducted by the Department of Electronics and Communication Engineering in association with ECHO. The expo was inaugurated by Dr. Mini P.R., dean of academics FISAT. The special guests of the event were Aravind K Jayan, Engineer at Digital Core Technologies and Unnimaya K P, Analog Design Engineer Cadence Design System. They were the two industry experts who evaluated the students' projects.



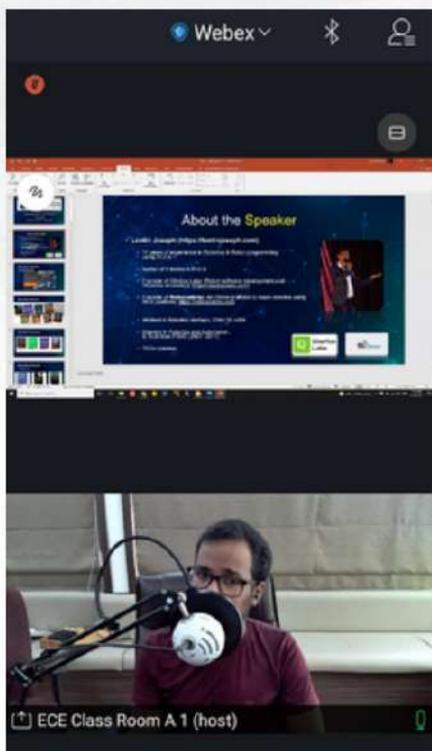
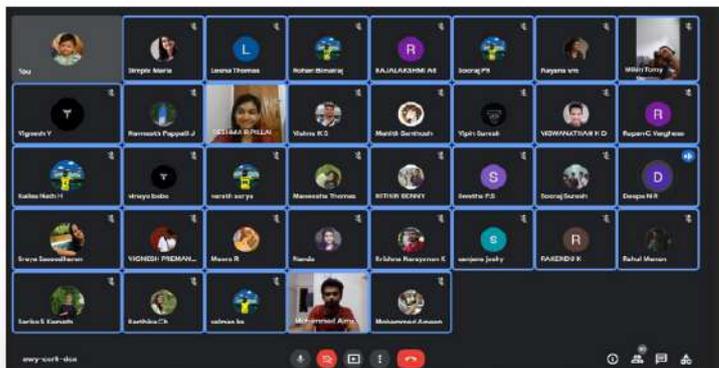
Also, they have given a project briefing on areas and how the students could improve their projects for the future. Ms. Sreevidya P and Mr. Staney E George were the experts from sister department for the evaluation of projects. Total 24 projects exhibited and the Best Project Award title was 'String Art' and the team members are Job Sajan John, Kiran Jayaram, Manu Sankar and Sharath K.



## OTHER ACTIVITIES ORGANISED BY THE DEPARTMENT:

Farewell function to final year students

Farewell function was conducted in the online mode for passing out students of the 2021 batch on 14/07/21. Students and the faculty shared their memories, experience and dreams in the program. It was a memorable experience for all those who attended.



### *Bridge course (ISPS) session "Interaction with Alumni"*

As a part of the bridge course for the first year students, interaction with distinguished alumni of the department was done.

Mr. Lentin Joseph, CEO, Qbotics lab gave a talk on Importance of electronics in engineering education and interacted with students on 28/10/21.

Ms. Ann Treasa Jenson who has 4 years experience in Embedded Software Development at Robert Bosch Engineering and Business Solutions (RBEI), Mr Alex Jolly who is currently Data Scientist in Tranzmeo and Ms. Anagha Gopalakrishnan who is a Senior Data Analyst- GAO Lenovo also addressed the students on 05/11/21.

A talk on "Introduction to ISTE" was given to 1st year ECE students as part of their ISPS on 29/10/21.

### *Talk on Mathematical modelling and its application in EV development*

A talk on "EV Design and Development in Vehicle Industry" was Organised by Ms. Jilu George, and Ms. Aiswariya Raj for Third and Fourth Year students, by the experts from Automotive Industry. It was headed by Mr. Ashwakiran K, Mr. Balagopal P, Managers, Volvo Group Trucks Technology, Bangalore on Sat, Nov 27, 2021,

3pm - 4:30pm (IST) through Microsoft Teams meeting. This talk was based on the course 'Control Systems' offered in 5th and 7th semesters of B.Tech ECE.

This discussion was on Mathematical modelling and its application in EV development. Main topics covered in the meeting included ICE Vehicles, Emission Norms, Electric Vehicle, its Advantage, Types, Components (Battery, Motor, PE components, charging, Challenges- Safety Challenges, as well as Functional Challenges. This helped to look beyond deriving the equations and see how does it transform the transportation needs and it was the Major Take away from this meeting. Finally they Clarified questions with answers and shared their experiences with everyone.

### *Talk on the Scope of Semiconductor Industry:*

The event commenced on 10th March 2022 at 10 AM in the Main Seminar Hall, FISAT. The technical talk was handled by Mr. Alexander P A, who is the Practice Head of Physical Design at Tech Mahindra Cerium. The session was conducted as a part of the Value Added Course for the 4th-year Electronics and Communication Engineering students of FISAT. The welcome address was delivered by Dr. Anil Kumar M N (Prof & Head of the Department, ECE Dept). The objective of the session was to provide insight into the semiconductor industries to final year electronics students. The session was divided into different parts where it covered topics like how to prepare to get placed in the core companies, the requirements companies are looking for in the freshers, the technologies and the tools students must be familiarized with, the trends of semiconductor industries in India and the importance of getting placed in semiconductor industries. It was an interactive talk session that ended with a Q and A session to clear the doubts. Gratitude towards the speaker was delivered by Ms. Deepa N R (Asst. Prof ECE Dept.).

## Talk on Applications of compensators in Electronic circuits

Department of Electronics in FISAT Organized a Tech- Talk on “Application of compensators in Electronic circuits” on 11th March 2022 in online mode. This talk is organized as a part of 5th semester course Control System (ECT 307) for 3rd year ECE students. The speaker was Dr. Parvathy R, Professor EEE, FISAT.

In her talk, first she explained the difference of compensators and controllers. Then she discussed the design of compensators. After that she entered the application of compensators in various electronic circuits. She gave a good idea of change in open loop gain and stability improvement in circuits by using compensators.

The lecture started at 11am and ended by 12noon and around 100 students attended the talk. The students they got an idea of application of compensators in Electronics circuits. The students found the lecture extremely informative.

## Technical Talk on Adaptive Signal Processing – An Overview

Department of ECE Organized a Technical Talk on “Adaptive Signal Processing – An Overview” on 12th March 2022 in online mode. This talk is organized as a part of 5th semester course Digital Signal Processing (ECT 303) for 3rd year ECE students. The speaker was Dhanya S, Assistant Professor ECE, FISAT. The lecture started at 8 pm and ended by 9 pm. Around 100 students attended the talk. For ECE students they got an idea of Adaptive Signal Processing. The students found the lecture extremely informative.



## MADHURAM 2K21

On 18th of March 2022, An Alumni meet named “MADHURAM 2K21” was conducted in the south quadrangle for the ECE 2017-21 pass out batch. The program started around 5.30pm with a beautiful introduction by anchors and a prayer song. The welcome speech followed by felicitation speeches from Dr. C Sheela (Vice Principal), Dr. Anilkumar M N (HOD ECE), Dr. Mini P R (Dean of academics).

Few Alumni and teachers were called up on stage to share their memories across their four academic years in FISAT. Later, a video presentation was played with all the college and campus memories of them. Their happy time being captured and getting them back into their good old times.

Right after this, a musical band performance was on stage with various instruments and soothing music followed by a group dance performed by the girls. Some games were conducted for our guests and they were brought on stage to showcase their dance skills.

By 8pm, the DJ was performed by ‘Decypher’ (our alumni Adithya Narayanan) which lasted for 45 minutes. Alumni were happy to meet again and share their new life with their friends. Food was provided right after the DJ and at the same time the college band graced the stage with some memorable music. The program concluded by 9.30pm with vote of thanks along with some of the alumni sharing their feelings and thoughts.



## HOBBY CLUB ACTIVITIES:

### **Online quiz competition:**

Hobby club, an initiative of the Department of ECE, FISAT, in association with ECHO organized an online multiple choice quiz competition on "Arduino Boards" on 12th July, 2021. . 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 a 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.

Winners of quiz competition are:

First Prize: Santhwana T, S6 ECE B

Second Prize: Emilin Mary Koottala, S6 ECE A

Third Prize: Aswin Krishna, S6 ECE A

### **Science Video Competition**

To enhance the interest in science and practical skills of the students, hobby club of ECE department, organized an online science video competition for the first and second year students of ECE department on August 30, 2021. Participants explained basic science concepts with the help of some working models. Students used materials like magnet, battery, bottles, plastic, led etc. to create the working model. This competition is basically related with science tricks. The assessment was done by the members of jury on the basis of their practical knowledge, content and their creativity etc. The students were very excited and actively participated in the competition.

Winner: HANEENA SAJAN (S2 ECE A)

### **Star making contest**

On the occasion of Christmas to get everyone involved in the festivity of Christmas, the hobby club of ECE department organized an electronic Star making competition for students from December 20th to 22nd. Participants arranged LED's in different combinations and made extremely good blinking stars. Students also developed control circuitry for the same. Competition provided an opportunity to students to get hands-on working knowledge on the various electronic components.

The following were the winners of the competition:-

First prize( Shared by two teams):

K R Goutham Krishna & Sandesh Girish (S1 ECE B)

Abhinand K S & Antony ( S1 ECE A)

Second Prize:

Joseph Thomas & Ken Paul Binoj ( S1 ECE B)

### **Technical short story competition**

The hobby club of the ECE department conducted a technical story writing competition on 20th January 2022. The objective of the event was to empower students to predispose themselves towards writing and literature in an era where social media dominates, aspiring to ignite this creative spark in the students. It was an endeavor to direct students towards the creative path of writing and active expression through the medium of written storytelling. The topic for the competition was "Future electronic technologies

Winner: Neha Ann Christopher, S1 ECE B

### **Workshop on Introduction to Embedded Programming**

Hobby Club of the ECE department organized a training program on embedded systems for first year ECE students on February 16th and 17th of February 2022. First day of the program was attended by ECE A batch students and the next day by ECE B students. Mr.Noble G and Ms.Bini V K handled the sections. The event was organized with the intention to create interest among students for doing small hobby projects. Basic arduino programs were simulated during the event using TinkerCad Software. Students were familiarized with various electronics boards and their applications were discussed during the event.

Students did interfacing of LCD and Keypad with Arduino and obtained proper output. Operation and working of different motors like DC motor and stepper motor were discussed during the workshop and the same were interfaced with the objective of speed control and direction control.



Stars made by students hung on the front wall of ECE department



## **FACULTY ACHIEVEMENTS:**

1. Design of the proposed AAC device under the guidance of Noble G was accepted on 14th July 2021 by the NISH team and received sanction to proceed further with the product.
2. Financial assistance of 10000 recommended by KSCSTE for the project "Hospital Sanitizing Robot" proposed by Akshaya Jayan, Eldho Lalu, Fousiya P Manaf, Gowri Prasad of S7 ECE A under the guidance of Mr. Anoop E G and Mr. Noble G
3. Financial assistance of 10000 recommended by KSCSTE for the project "Face mask Detection System" proposed by Ivin Jose, Abhai Varghese, Ashik Shaju, Anand M S of S7 ECE A under the guidance of Mr. Anoop E G and Mr. Noble G
4. Financial assistance of 10000 recommended by KSCSTE for the project "Contactless UI control for lifts" proposed by Job Sajan John, Kiran Jayram, Sharath K, Roshith Roy of S7 ECE A under the guidance of Ms. Manju C P and Mr. Manu Mohan C M.
5. Ms. Christy Jose was selected as NPTEL domain scholar on 14/12/21
6. NPTEL Mentorship certificate (5 students successfully completed NPTEL course Patent Drafting for Beginners) was awarded to Ms. Christy Jose.
7. The Project titled "Smart soldering iron" proposed by Paul Sabu, Prajeesh R, Praveena Meemba, Parvathy Venugopal, Nitha Backer of S8 ECE B under the guidance of Mr Noble G was selected for the Idea development grant of Rs 1 lakh by Kerala Startup Mission
8. Project titled 'Sign language to Speech converter' proposed by Joheon C P, Joseph Paul, Linto Thomas, Rajeev K R, Linto Thoma B under the guidance of Mr Manu Mohan C M secured financial assistance of INR 16500 under the CERD scheme
9. Ms. Aiswariya Raj, Asst. Prof ECE was the resource person for the online workshop on Digital Image Processing using Python organised by ECSA under the School of Engineering, CUSAT on 5th and 6th of October, 2021
10. Mr Basil K Jeemon was the Resource person for a talk on "Coordinate systems" based on the subject 'Electromagnetic theory' for third year students of EEE department on 06-05-22
11. Ms. Ambili A. R. Got Selection as KTU External Auditor on 16/05/2022
12. Ms. Chrisy Jose and Ms. Dhanya S selected for the Mentor for the NPTEL online certification courses "Ethics in Engineering Practice" and "Network Analysis" respectively.
13. Ms Sreelekshmy S was the Resource person for a talk on "Hardware Modeling Using Verilog" for first year students of MCA department on 27-01-22

## Faculty Research Activities

1. Dr. S. Krishna Kumar, Professor, ECE was granted Research Guideship approved by the APJ AKTU.
2. Dr. Anil Kumar M N, Prof & HoD, ECE chaired the session in AICTE Sponsored international conference on advances in computing, Communication Embedded and secure system at ASIET, Kalady on 4 Sep, 2021.
3. Dr Anil Kumar MN was selected as the External Examiner of Ph.D final Viva-voce , Visvesvaraya Technological University, Belgaum
4. Mr. Noble G, Asst. Prof, ECE was selected to the part time PhD programme at the Indian Institute of Information Technology [IIIT], Kottayam.
5. Ms. Elza George, Asst. Prof, ECE was Selected for Ph.D programme at the Amrita Vishwa Vidyapeetham, Coimbatore.
6. Ms. Subha Thomas, Asst. Prof, ECE was selected for Ph.D programme at the Avinashilingam University.
7. Ms. Vinitha V, Asst. Professor Registered for Ph.D Programme in KTU under the guidance of Dr. Krishna Kumar S, Professor, ECE Department.
8. Ms. Jilu George, Ms. Minu Kuriakose, and Ms. Nisha R, Asst. Professors registered for Ph.D Programme in Karunya Institute of Science and Technology, Coimbatore

## Faculty Publications:

1. Ms. Anjali Murali, Ms. Irene M V, Mr. Gokul Krishna H Menon, final year students of ECE (2017 admission), under the guideship of Mr. Basil K Jeemon, Asst. Prof, ECE presented and published the paper entitled “Signal detection in OFDM systems using deep learning” in the “International conference on recent trends in Communication and Embedded System Technologies” held at Christ Engineering College, Iringalakuda held on 13-15 July 2021.
2. Mr. Basil K Jeemon, Asst. Prof, ECE presented and published a paper titled “ Space time block coded vector OFDM with ML detection” in the 8 IEEE International Conference on Smart Computing and Communications (ICSCC 2021) organized by Muthoot Institute of Technology and Science, Kochi.
3. Ms. Nimmy M Philip , Ms. Deepa NR and Mr. Anoop EG presented a paper in AICTE sponsored 2021 2 International conference on ACCESS hosted by Adi Shankara& Technically sponsored by IEEE Kerala section on 4 Sep, 2021.
4. Ms. Nimmy M Philip , Ms. Deepa NR presented a paper in International IEEE conference at Karunya University on 21 st and 22 nd April 2022
5. Ambili A R. Presented and published a paper in International Conference on Innovative Trends in Information Technology IIIT Kottayam 2022, pp. 1-6, doi:10.1109/ICITIIT54346.2022.9744221. dated on 09/05/2022
6. Mr. Basil K Jeemon peer reviewed one paper for the journal "Materials Today: Proceedings, Elsevier"



### Online courses and workshop Attended by faculty:

1. Ms. Deepa N R, Asst. Profs, ECE received Elite with silver certification of FDP Equivalent NPTEL Course - Cryptography and Network Security
2. Ms. Sheelu Susan Mathews, Asst. Prof, ECE received Elite certification of FDP Equivalent NPTEL Course -Vlsi Physical Design
3. Ms. Christy Jose, Ms. Jilu George, Asst. Professors, ECE completed NPTEL course on Accreditation and Outcome based learning
4. Ms. Sheelu Susan Mathews, Asst. Prof, ECE completed FDP Equivalent NPTEL course on Python for data science-Elite with silver qualification
5. Ms. Jilu George and Ms. Christy Jose, Asst. Profs, ECE completed NPTEL online certification and AICTE approved FDP on Patent Drafting for Beginners.
6. Ms. Jilu George and Ms. Christy Jose, Asst. Profs, ECE completed NPTEL online certification and AICTE approved FDP on Learning Analytics Tools
7. Ms. Dhanya S Asst. Prof, ECE completed NPTEL Online Certification on Network Analysis
8. Ms. Pearlsy P V completed coursera course on Introduction to deep learning .
9. Mr Benoy Abraham completed two weeks workshop on "Research Methodology, Publication and Ethics" organized by Noorul Islam Centre for Higher Education(NICHE)
10. Ms. Elza George Completed Coursera course on Fundamentals of Digital Image and Video Processing
11. Ms. Deepa N R, Asst. Profs, ECE completed NPTEL online certification on CMOS Digital Design.
12. Ms. Sreelekshmy S Completed Coursera course on Machine Learning, conducted by Coursera
13. Ms. Sheelu Susan Mathews Qualified in the NPTEL-VuNet Data –Centric AI Masterclass with a consolidated score of 80% conducted by IIT Madras during January 22 &23, 2022.
13. Ms. Sheelu Susan Mathews Completed 4 weeks (65 hours) online Lab Workshop on ‘FPGA Architecture and Programming using Verilog HDL’ jointly organized by Arm Education and NIELIT Calicut during 11thMay 2022 to 08th June 2022.

### FDP Attended by The Faculty:

SL.NO.	NAME OF FACULTY	NAME OF TRAINING	DATE	CONDUCTED BY	No. of days
1	Dr Mini P R	Robotics - Control and Applications Phase 1	04-04-2022 - 08-04-2022	Mar Baselios College of Engineering and Technology	5
2	Dr. Krishna Kumar S.	AI and Data Sciences: A pedagogical Approach	09-08-2021 - 13-08-2021	Dept. of ECE, St. Joseph's College of Engineering and Technology, Palai	5
		ASIC_Testing_and_Verification	06-03-2022 - 10-03-2022	IIITDM Kancheepuram	5
		Multicore Architecture and Design	26-08-2021 - 27-08-2021	Division of Electronics, School of Engineering, Cochin	2

				University of Science and Technology, Kochi	
3	Neena K A	Academic Research: Methods & Strategies ; Funding; Publishing in Indexed Journals	28-07-2021-30-07-2021	KMEA,	3
		Recent Advancements in Wireless Communication Technologies,KTU	13-07-2021-17-07-2021	NSS, Palakkad	5
		Deep Learning Using Medical Data	04-10-2021-08-10-2021	Finland Labs (A Unit of Revert Technology Pvt. Ltd., New Delhi)	5
		IIP Awareness/Training program	4/28/2022	FISAT	1
		Technology Driven Healthcare Systems	18-01-2022 - 24-01-2022	Jawaharlal Nehru College of Engg. , Palakkad	5
		NAAC Revised Accreditation Frame Work	10-7-2021	IQAC,FISAT	1
4	Ambili A R	SCIENTIFIC DOCUMENTATION USING LaTeX	20-12-2021 - 29-12-2021	ICEFOSS,TRIVANDRUM	10
		10 DAY PATENT ANALYTICS COURSE	03-06-2022 - 12-06-2022	TURNIP	10
		POWER CONVERTERS -AN EMBEDDED SYSTEM BASED APPROACH	22-07-2021 - 28-07-2021	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ,FISAT	5
		COURSE ON ANDROID APPLICATION DEVELOPMENT FOR BEGINNERS	10-12-2021 - 14-12-2021	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,ST.THOMAS Institute for Science and Technology, Trivandrum	5



5	Deepa N R	CMOS DIGITAL VLSI DESIGN	01-01-2022 - 29-03-2022	NPTEL ,IIT Madras	7
6	Pearlsy P V	Introduction to deep learning	12/11/2021 - 6/6/2022	Coursera	
7	Nimmy M Philip	FPGA Based Deep Learning Applications in Signal Processing	7/5/2021- 7/9/2021	KLE Technological University(ATAL FDP)	5
		“Inculcating Universal Human Values in Technical Education”	12/6/2021 - 12/10/2021	AICTE	5
8	Anoop E G	Internet of Things (IOT) with Machine Learning & Artificial Intelligence	13-09-2021 - 17-09-2021	ITS Engineering College.	5
		"IoT Framework Development for Agriculture Sector"	06-09-2021 - 10-09-2021	Lal Bahadur Shastri College of Engineering, Kasaragod, Kerala.	5
		Deep Learning and Neural Networks	05-07-2021 - 09-07-2021	Dept of ECE, Mohandas College of Engineering and Technology, Trivandrum	5
9	Subha Thomas	NAAC Revised Accreditation Framework	10-07-2021	FISAT	1
10	Minu Kuriakose	WORKSHOP ON DEEP LEARNING USING MATLAB	27-09-2021- 03-10-2021	PANTECH SOLUTIONS	7
		MATLAB MASTER CLASS	13-09-2021- 12-10-2021	PANTECH SOLUTIONS	30
		JOY OF TEACHING	12/18/2021- 12/20/2021	IQAC, COLLEGE OF ENGINEERING, VADAKARA	3
		NAAC Revised Accreditation Framework	7/10/2021	IQAC FISAT	1
		NAAC Revised Accreditation Framework	16-07-2021	IQAC, FISAT	1
		NAAC Revised Accreditation Framework	22-07-2021	IQAC, FISAT	1

		NAAC Revised Accreditation Frame Work	23-07-2021	IQAC,FISAT	1
		NAAC Revised Accreditation Frame Work	24-07-2021	IQAC,FISAT	1
		Hands on Workshop about unconventional Artificial Neural Network to deep Learning	9/5/2022 - 14-05-2022	Karunya university	6
		5G Advanced Antenna design and analysis using Ansys HFSS	07-12-2022	ARK Infosolutions Pvt.Ltd.	1
11	Christy Jose	AI Enabled IoT Networks	9/13/2021- 9/17/2021	AICTE ATAL FDP at ASIET	5
		Accreditation and Outcome Based Learning	7/25/2022- 9/7/2021	IIT Kharagpur	8 weeks course
		Learning Analytics Tools	7/26/2021- 10/17/2021	IIT Bombay	12 week course
		Patent Drafting for Beginners	7/26/2021- 8/29/2021	IIT Madras	4 weeks online course
		Introduction to Flight Control Systems	10/6/2021	Department of EEE,FISAT	1
		Introduction to Academic Writing	26-11-2021	Department of Science and Humanities,FISAT	1
		Professional Ethics in Academics	27-11-2021	Department of Science and Humanities,FISAT	1
12	Jilu George	Accreditation and Outcome Based Learning	26-07-2021- 17-09-2021	IIT Kharagpur	8 Weeks
		Recent Advancements in Wireless Communication Technologies,KTU	13-07-2021- 17-07-2021	Department of Electronics and Communication Engineering, NSS College of Engineering, Palakkad	5
		Learning Analytics Tools	26-07-2021- 17-10-2021	IIT Bombay	12 week



		Hands on Workshop	09-05-2022-14-05-2022	IIT Mandi iHub and HCI Foundation in collaboration with Karunya University	6
		Patent Drafting for Beginners	26-07-2021-29-08-2021	IIT Madras	4 weeks
		How to Get Your Research Work Published	01-02-2022	Government Medical College , Thrissur	1 day
13	Aiswariya Raj	FDP on Disaster Management-ISTE	27-11-2021-28-11-2021	Department of Electrical and Electronics Engineering in association with ISTE MCET Thiruvananthapuram	2
14	Nisha R	NAAC REVISED ACCREDITATION FRAMEWORK	16-07-2021	IQAC FISAT	1
		JOY OF TEACHING	18-12-2021 - 20-12-2021	IQAC DEPT, COLLEGE OF ENGINEERING VADAKARA	3
		Academic Research: Methods & Strategies ; Funding; Publishing in Indexed Journals	28-07-2021 - 30-07-2021	KMEA COLLEGE EDATHALA	3
		Hands on Workshop about unconventional Artificial Neural Network to Deep Learning	09-05-2022 - 14-05-2022	KARUNYA UNIVERSITY	6
		NAAC REVISED ACCREDITATION FRAMEWORK	22-07-2021	IQAC, FISAT	1
15	Anu K Kuriakose	Recent Advancements in Wireless Communication Technologies	13-07-2021 - 17-07-2021	NSS College of Engineering, Palakkad	5
		Emerging Applications of Engineering Electromagnetics	17-02-2022 - 22-02-2022	Department of Electronics and Communication Engineering, IIIT, Kancheepuram	6
		Recent Trends in Signal and Image Processing	16-05-2022 - 20-05-2022	Government Engineering College Palakkad, Sreekrishnapuram	5
		NAAC Revised accreditation framework	16-07-2021	FISAT	1



		Emerging Trends in Photonics	7/10/2021 - 7/14/0021	Indian Institute of Information Technology, Design and Manufacturing, Kurnool.	5
16	Sheelu Susan Mathews	Machine learning and deep learning with deployment	22-07-2021 - 24-07-2021	Dept of ECE,ASIET	3
		Python For Data Science	01-07-2021 - 01-08-2021	iit madras	4 weeks
		NPTEL VuNET Data centric AI Master class	22-01-2022 - 23-01-2022	IIT MADRAS	2
		'FPGA Architecture and Programming using Verilog HDL'	11-05-2022 - 08-06-2022	Arm Education and NIELIT Calicut	4 WEEKS
		"Embedded Systems - An Application Driven Approach"	25-08-2021 - 27-08-2021	All India Council for Technical Education (AICTE), ATAL Academy, STMicroelectronics and Arm Education,	3
		Wearable Devices	17-01-2022- 21-01-2022	St.Joseph's College of Engineering and Technology, Palai, Kerala.	5
17	Dhanya S	Joy of Teaching	12/18/2021- 12/20/2021	College of Engineering, Vadakara	3
		NAAC Revised Accreditation Framework	24-07-2021	IQAC,FISAT	1
		NAAC Revised Accreditation Framework	23-07-2021	IQAC,FISAT	1
		NAAC Revised Accreditation Framework	22-07-2021	IQAC,FISAT	1
		Network Analysis	01-01-2022 - 30-04-2022	IIT Kharagpur	
		IP Awareness/Training program	28-04-2022	Intellectual Property Office and MoE's Innovation Cell, India	



		Technology Driven Health Driven System	18-01-2022 - 24-01-2022	Jawaharlal College of Engineering and Technology, Palakkad	
		NAAC Revised Accreditation Framework	10-07-2021	IQAC,FISAT	1
18	Jeslin P Jo	AI Enabled IoT Networks,FDP,ATAL	13-09-2021 17-09-2021	ASIET	5
		DISASTER MANAGEMENT	27-11-2021 - 28-11-2021	EEE,MCET	2
		Technical talk on “Microwave radiation-Myths and Facts”	29/1/2022	ISTE,FISAT	1
19	Manju C P	AI Enabled IoT Networks,FDP,ATAL	13-09-2021 17-09-2021	ASIET	5
21	Gayathri I K				
22	Noble G	Advanced Micro/Nanosensor Technologies	18-07-2022 - 20-07-2022	Government Engineering College, Palakkad	3
23	Elza George	AI Enabled IoT Networks	13-09-2021 - 17-09-2021	ATAL	5
		Hyper spectral remote sensing and its applications	06-09-2021- 10-09-2021	ATAL	5
24	Sreelekshmi S	AI Enabled IoT Networks,FDP,ATAL	13-09-2021 17-09-2021	ASIET	5
25	Bini V K	AI Enabled IoT Networks,FDP,ATAL	13-09-2021 17-09-2021	ASIET	5
26	Leena Thomas	Research Methodology	08-06-2022 - 21-06-2022	NICHE	12



## *Students Achievements*



**Mr Manish Pillai**

*Best Outgoing Student Award*

**Navya Jose** of 2020  
Admission scored 10 SGPA in  
second and third semester  
B.Tech university  
examination



- *R Aishwarya* of 2019 Admission scored 10 SGPA in the third and fourth semester B.Tech university examination and was also awarded with a special academic excellence award



**Santhwana T** of 2018-2022 batch ECE received B.Tech in ECE with Honours Degree.

### *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 S6 ECE and Nivedhitha M of S4 ECE.



R Aishwarya  
S6 ECE



Nivedhitha M  
S4 ECE



**ELECTRONICS AND COMMUNICATION ENGINEERING**

**THE TOP SCORERS OF B.TECH ECE 2018-2022 BATCH**

**B. TECH HONOUR**



**SANTHWANA T**  
CGPA-8.92



**FOUSIYA P MANAF**  
CGPA-9.2



**SANDRA MARIYA**  
CGPA-8.97



**FAMEELA V A**  
CGPA-8.94



**NANDANA RAJEEV**  
CGPA-8.87



**JIBIN K MATHAI**  
CGPA-8.87



**MARIYA TONY**  
CGPA-8.86



**KEERTHANA K M**  
CGPA-8.76



**AISWARYA ANTONY**  
CGPA-8.75



**GREETY GUIDE**  
CGPA-8.74



**PRAVEENA MEEMBAT**  
CGPA-8.73



**MANISH PILLAI**  
CGPA-8.65



**IVIN JOSE**  
CGPA-8.53



**UTHARA CHAKKUNGAL V**  
CGPA-8.45



**AJITH JAMES**  
CGPA-8.43



**ABHAY RAJ K S**  
CGPA-8.38



**AYANA SUNNY**  
CGPA-8.34



**SREEKUTTY P S**  
CGPA-8.28



**DONA DAS**  
CGPA-8.23



**AMRITA R NAIR**  
CGPA-8.15



**KIRAN JAYARAM**  
CGPA-8.08



**JOSEPH PAUL**  
CGPA-8.08



**SREEJITH S NAIR**  
CGPA-8.05



**ANNA MATHEW**  
CGPA-8.04



**GAUTHAM KRISHNA M**  
CGPA-8.03



### 2019 Admission ECE A&B(S7)

SI No	Reg No	Name	CGPA	Class Position
1	FIT18EC039	FOUSIYA P MANAF	8.70	1
2	FIT18EC036	FAMEELA V A	8.55	2
3	FIT18EC050	JIBIN K MATHAI	8.41	3
4	FIT18EC043	GREETY GUIDE	8.36	4
5	FIT18EC002	ABHAY RAJ K S	8.34	5
5	FIT18EC078	SANTHWANA T	8.34	5

### 2019 Admission ECE A&B(S5)

SI No	Reg No	Name	CGPA	Class Position
1	FIT19EC110	SOWMYA S	9.87	1
2	FIT19EC096	R AISHWARYA	9.65	2
3	FIT19EC043	CATHARINE SEBI	9.57	3
4	FIT19EC084	NIKHITHA JOHNSON	9.35	4
5	FIT19EC090	P ANAND	9.13	5

### 2019 Admission ECE A&B(S3)

SI No	Reg No	Name	CGPA	Class Position
1	FIT20EC078	NAVYA JOSE	10.00	1
2	FIT20EC002	AARCHA SANTHOSH MALIYAKAL	9.68	2
3	FIT20EC051	GOWRI NANDA S	9.50	3
4	FIT20EC054	HELEN MARIA SHA	9.36	4
5	FIT20EC052	HANEENA SAJAN	9.32	5

### 2019 Admission ECE S1 A

SI No	Reg No	Name	CGPA	Class Position
1	FIT21EC029	ANUGRAHA M	9.41	1
2	FIT21EC031	APARNA C	9.24	2
3	FIT21EC006	ADILA THAYYIL	9.15	3
4	FIT21EC010	AISWARYA JAYAKUMAR	9.15	3
5	FIT21EC041	ASWATHY JOMY MATHEW	9.12	4
6	FIT21EC039	ASLAHA JABBAR	8.88	5
7	FIT21EC024	ANJANA K.S.	8.88	5



## 2019 Admission ECE S1 B

SI No	Reg No	Name	CGPA	Class Position
1	FIT21EC097	P SREYA	9.76	1
2	FIT21EC068	JOSEPH THOMAS	9.68	2
3	FIT21EC090	NEHA ANN CHRISTOPHER	9.59	3
4	FIT21EC121	VENUS THOMAS	9.56	4
5	FIT21EC101	ROSNA SHAJI	9.53	5
6	FIT21EC079	MARIA THERESA PAULSON	9.53	5

- Mr Jose Ben from 2019 admission B batch ECE was selected to student leadership team 2022 of IEEE Kerala section.
- Mr. Aakash S, Ms. Arya N A, Mr. Harishankar S, Mr. Hrithudev V S, from 2019 admission batch won 2nd prize in Budget Analysis Competition '22 by FBS FinFrats.
- Five students from 2019 batch ECE started Internship programme at Luure.ai, Technopark, Trivandrum
- Mr. Joshua Alex Mathews and Mr. Joyal Gigi from 2020 admission batch won first position and Ms. Navya Jose and Ms. Nimmy Joshy from 2020 admission batch won second position in SciLab coding competition conducted by ECHO
- Ms. Rose Mary Thomas from 2020 admission batch won first position and Ms. Swathy Sajeev from 2020 admission batch won second position and Mr. Vimal M from 2021 admission batch won third position in Treasure hunt competition conducted by ECHO



## DETAILS OF INTERNSHIPS - Academic Year 2021-22

Jose Ben of class S6 ECEB(2019 Admission) was selected for the internship program in Tata Consultancy Service(TCS) from 26 July 2021 to 26 Nov 2021. The other major internships completed by the students are listed below

Sl No	Name of the Organisation	Title	No. of Students Attended
1	The sparks foundation	Data science and Business analytics	1
2	Luure.ai	AI	6
3	Revertech IT Solutions	Python	16
4	Revertech IT Solutions	Web mining using python	19
5	Revertech IT Solutions	Web Development	3
6	Revertech IT Solutions	Python and Webmining	3
7	Revertech IT Solutions	Digital Marketting	2
8	KPMG	Data Analytics Consulting	1
9	Keltron	Web Designing	1
10	Zindot Technology	Embedded System	1
11	Revertech IT Solutions	PCB Designing	2
12	Freeco	DTP	1
13	Freeco	QC Expert	1
14	Steel Authority of India Ltd.	SAP Marketing Module	1
15	Smartknower	Artificial Intelligence	1
16	Smartknower	Cybersecurity	1



## PLACEMENT STATISTICS[ 2018-22 BATCH]

Sl.no.	Name of the Student	Company
1	ABHAY RAJ	TCS
2	ABHINAV S B	Qburst
3	AISHWARYA D K	Cognizant
4	AISWARYA ANTONY	TCS
5	AJITH JAMES	Kalkitech
6	AKSHARA S	Federal Bank
7	AKSHAYA JAYAN	Infosys
8	AKSHAY JAYAN	Sutherland
9	AMEER MOHAMED K M	TCS
10	AMRITA R NAIR	UST Global
11	AMULYA K M	Infosys
12	ANAGHA REGHU	UST Global
13	ANNA MATHEW	TCS
14	ANN MARIA JOSEPH	Sutherland
15	ANNMARY VINCENT	Sutherland
16	ARAVIND AJAY	Unschool
17	ARDRA SAJI	TCS
18	ASHWATHI PRAVIN RAJAH	Unschool
19	ASWIN KRISHNA M M	INNOVATURE SOFTWARE LABS



20	AYANA SUNNY	UST Global
21	CHAND B VYSHAK	Sutherland
22	CHRISTO K S	Qburst
23	DONA DAS	TCS
24	DRISHYA DILEEP	Cognizant
25	ELDHO LALU	Tataelxsi
26	EMILIN MARY KOOTTALA	UST Global
27	FAMEELA V A	Capgemini
28	FARHANA MOHAMED C	CSS Corp
29	FOUSIYA P MANAF	Cognizant
30	GAUTHAM KRISHNA M	TCS
31	GOWRI ANILKUMAR	TCS
32	GOWRI PRASAD	Infosys
33	GREETY GUIDE	TCS
34	IVIN JOSE	Tataelxsi
35	JACKIE EBBY GEORGE	Sutherland
36	JAGATHKRISHNA P	TCS
37	JAIN JOY	TCS
38	JERIN JOY	Mitsogo
39	JIBIN K MATHAI	Kalkitech
40	JOB SAJAN JOHN	Wipro
41	JOHEON C P	Key Value
42	JOSEPH PAUL	SOTI
43	K DEEKSHA P PAI	UST Global
44	KEERTHANA K MANIKANDAN	UST Global
45	KEERTHI P M	Capgemini
46	KIRAN JAYARAM	WhiteRabbit



47	LINTO THOMAS	TCS
48	MANISH PILLAI	Tech Mahindra Cerium
49	MANU SANKAR	Cognizant
50	MARIYA TONY	IBS
51	NANDANA RAJEEV	People10
52	NITHA BACKER	Wipro
53	PARVATHY VENUGOPALAN	UST Global
54	PAUL SABU	TCS
55	PRAVEENA MEEMBAT	TCS
56	RAJEEV K R	Wipro
57	ROJO JACOB	Unschool
58	SANDRA MARIYA	Cognizant
59	SANDRA PYLEE	Speridian
60	SANTHWANA T	UST Global
61	SHARATH K	Capgemini
62	SHEBA JOSE CHAMMANIKODATH	Speridian
63	SMITHA V MURALI	Tataelxsi
64	SOURAV BHASKAR A	Speridian
65	SREEHARI JAYAPRAKASH	Digital Core Technologies
66	SREEJITH S NAIR	Cognizant
67	SREEKUTTY P S	Infosys
68	SREYAS A KUMAR	MuSigma
69	SRIDEV P NAIR	Unschool
70	SRUTHY MADHUSOODANAN NAIR	Tataelxsi
71	S SIDDHARTH NAIR	Sutherland
72	UNNIMAYA K P	6D Technologies
73	UTHARA CHAKKUNGAL VIJAYAN	Wipro

## INDUSTRIAL VISIT OF S7 ECE A AND ECE B



Intending to provide the students an insight on the internal working of companies, the Electronics and Communication Engineering Department of Federal Institute Of Science And Technology(FISAT), Angamaly organized an industrial visit for the students of Final Year, during December 2021. The students of S7 ECE B batch visited Conexao Technology Solutions located in Panaji, Goa. The students were accompanied by faculty members Mr. Manu Mohan C M, Ms. Vineetha V and Ms. Manju C P, Asst Profs, ECE department. The students of S7 ECE A batch visited the manufacturing unit of ice fashions, Karukutty, Angamaly. These students were accompanied by faculty members, Mr. Benoy Abraham, Ms. Jeslin P Jo, and Ms. Bini V K, Asst. Profs, ECE department.



## ALUMNI SPEAKS

When I think back on my FISAT years, they were the best four years of my life. No! It was 2 and half years the remaining end up with Corona days. But all those days we were at FISAT were awesome, with lots of unforgettable memories.

FISAT has greatly aided my academic and behavioural development. A sudden transition from 12th-grade bio-mathematics to B.Tech. ECE was a bit hard. But with the full guidance and support from teachers, I was able to wipe out all that hardness. My group advisors, Jeslin Miss, Bini Miss, Noble Sir, and so many other teachers helped me a lot to gain success in my academics.

FISAT helped me make lots of good friends. Those people have been there for me in both good and bad times. We made lots of good memories in and out of college. We took many trips and had many discussions, and our Bharatham provided us with many memorable experiences. The bond we made at college became stronger even after we left. FISAT provides lots of opportunities to build a career. As a person who is campus-placed, I could say that the training from FISAT helped me gain this. FISAT provides lots of opportunities to showcase our talent. I wish FISAT could provide the same to all students in the upcoming years.

Thus, I could say FISAT is one of the reasons that helped me become who I am today.



**FOUSIYA P MANAF**

*Solution Engineer*

*IBS Software*



**Ardra Saji**

*Assistant System Engineer,  
TCS*

Learning is not just about reading books, by hearting notes and bumping them for exams and getting high scores. It is something that we should achieve through our lives and experiences. And I am happy that I got the opportunity for the same from ECE Dept. of FISAT. The whole bunch of teachers were very supportive in studies as well as with other co-curricular activities. The introductory coding sessions conducted by Dept. helped me a lot since the syllabus was deprived of coding. Also, various events by the club ECHO also played a major role in my organizational skills. The overall preparation of myself for the placements was boosted by the constant help of the department. ECE Dept. provided me with the best platform to boost my knowledge, technical and managerial skills.



# ARAMBHAM'21



# bharatham 2022





# NEWSLETTER COMMITTEE

## FACULTY



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Gayathri I K



Sreelakshmy S



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Noble G

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