RESONANCE

ELECTRONICS & COMMUNICATION ENGINEERING

ISSUE JUL-DEC 2024
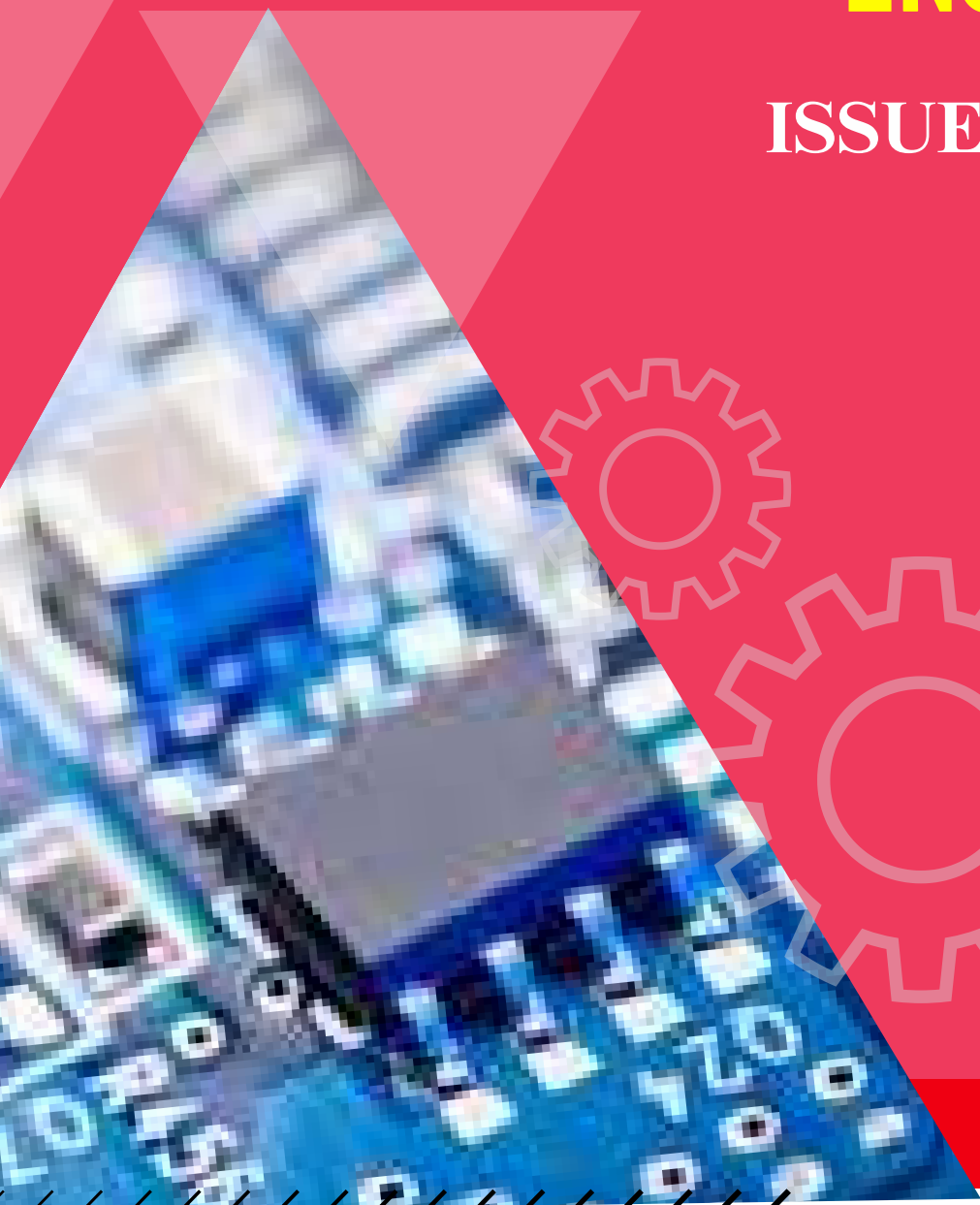
VISION

To be globally recognized for excellence in electronics and communication engineering education and research through value-based resource integration.

MISSION

M1: To nurture professionals who are capable of engineering solutions that enhance the quality of life as per the needs of the society.

M2: To provide an ambience for freethinking and innovation.

M3: To strive for a high-yielding collaboration with industry and institutions of repute.

M4: To launch students successfully into one of a variety of careers offering lifelong learning, service, and leadership.
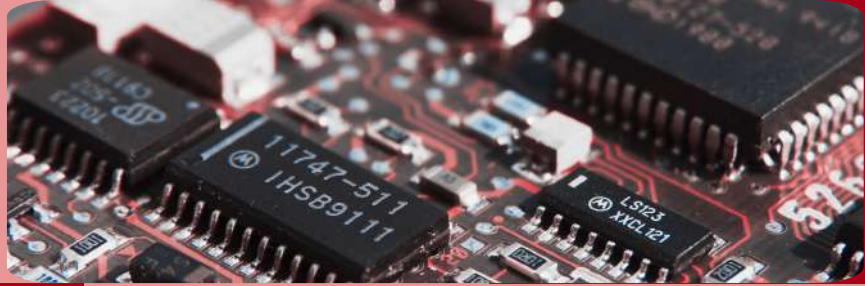
TECHNICAL TEAM

Faculty:- Jisha Jacob
Chief Editors:- Albin Eldhose (S6), Athul S Kumar (S6)
Sub Editors:- Cerin Joshy (S4), Karthik B.S (S4)

DEPARTMENT ACHIEVEMENTS

Industrial Visit

Faculty of ECE department visited the BPCL LPG Bottling plant

Workshop And Internship drive

The department of ECE in association with IEEE CAS organised a workshop on VEGA Processors and an internship drive by C-DAC trivandrum for students of S8

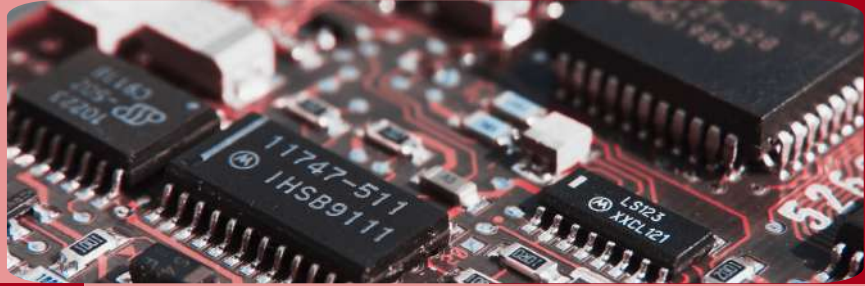## Alumni Interaction

MITS ECE Alumni Ms. Athira - IIM graduate

External Expert Talk

Ms. Athira K S , delivered an expert talk on ' My journey to IITM and research opportunities in medical imaging'

DEPARTMENT ACHIEVEMENTS

MoU

The department of ECE and EEE of MITS has signed an MoU with Tessolve Semiconductors, Bangalore

Faculty Development program (FDP)

A 3 -day FDP on "Modern Computational and Control Techniques in Engineering : Applications in System Dynamic and Signal Processing" was organised by department of ECE and EEE at MITS, Varikoli
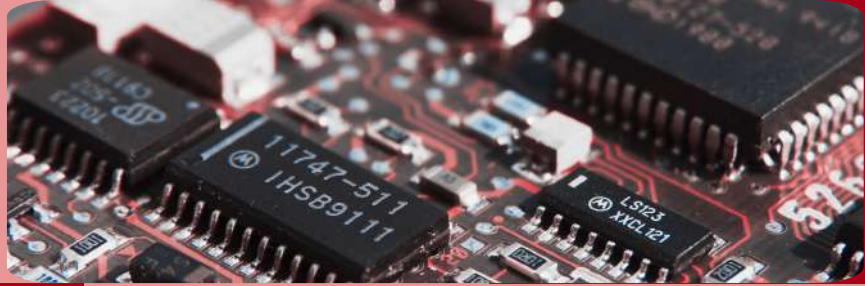

Workshop by Mathworks

One day workshop by MATHWORKS jointly organised by EC,EE,CS & AIDS on

- Working with MATLAB and Python on 21.11.24
- Hands-on demo for calling Python scripts in MATLAB
- MATLAB scripts in Python Use MATLAB AI apps in Python
- Building applications using Interoperability Resource person: Dr. Debanand Singdeo ,Senior Customer Success Engineer MATHWORKS

FACULTY ACHIEVEMENTS

Workshop

Dr. Shobha G, Dr. Arun Joy & Dr. Binu Manohar attended a two day workshop on Quantum Circuits at IISc Bangalore

Paper Presentation
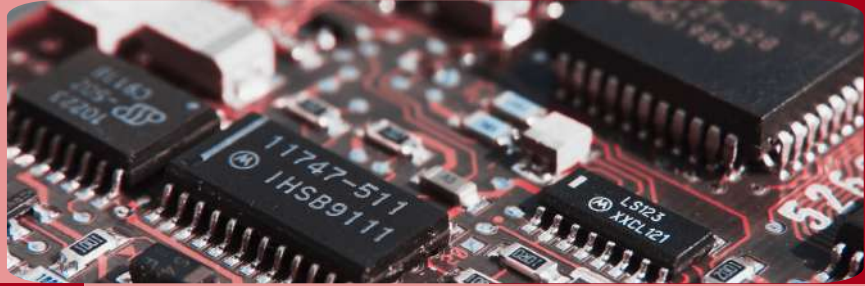

Dr.Binu Manohar and Dr.KrishanPriya S presented a paper titled 'Implementation of IoMT-assisted smart healthcare monitoring for clinical infectious diseases', in TENSYMP 2024, IEEE Region 10 symposium at Netaji Subhas University of Technology (NSUT), Delhi.

Resource Person

Dr.Prathibha Sudhakaran delivered a session on the topic "Overview of AI Tools for Research" as part of the ISTE Approved National Level Online Short Term Training Program on "Effective AI Tools for Enhancing Teaching, Learning, and Research" organized by the Department of Electronics and Telecommunication Engineering at Xavier Institute of Engineering, located in Mahim, Mumbai

FACULTY ACHIEVEMENTS

Industrial Visit

Dr. Abhilash Antony, Dr. Binu Manohar, Dr. Dhanya S ,
Dr. Shobha Gopalakrishnan, and Dr. Arunkant A Jose of ECE department visited the BPCL LPG Bottling plant
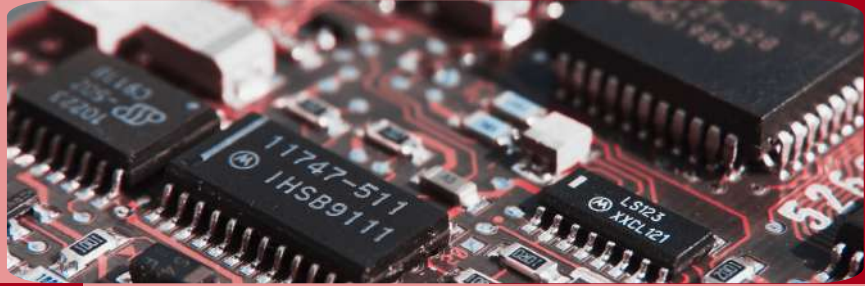

NPTEL Certification

- Dr.Dhanya.S completed NPTEL certification on Introduction to ML (Elite)
- Ms. Anjali S V completed NPTEL certification on Introduction to Machine Learning (Elite +silver)
- Dr. Arun Joy completed NPTEL certification on Accreditation & outcome based learning (Elite +silver)
- Ms. Nayana P K completed NPTEL certification on Accreditation & outcome based learning (Elite + Silver)
- Ms. Nayana P K completed NPTEL certification on Microwave Engineering (Topper Elite + Silver)
- Dr. Abhilash Antony completed NPTEL certification on Accreditation & outcome based learning (Topper 2% Elite + Gold)
- Ms. Jisha Jacob completed NPTEL certification on Technical English for Engineers (Topper 5% Elite + Silver)
- Ms. Deepa Prabhu completed NPTEL certification on Introduction to Internet of Things (Elite+Silver)

FACULTY ACHIEVEMENTS
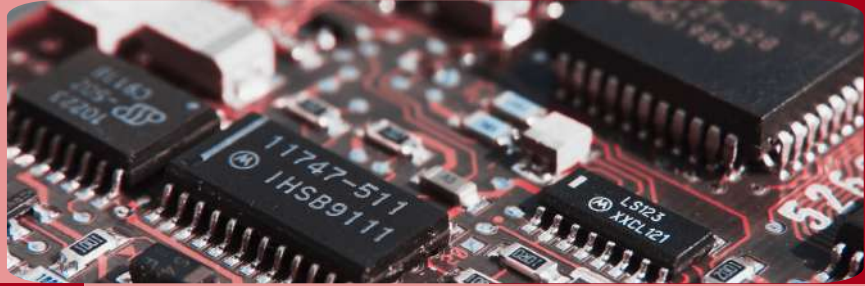
Faculty Development Program (FDP)

- Dr. Dhanya S attended a 6 day FDP on "Next Generation TeleCommunications - Advancements, Challenges and Future" conducted by Anna University (MIT)
- Ms. Nayana P K attended a 6 day FDP on "Next Generation TeleCommunications - Advancements, Challenges and Future" conducted by Anna University (MIT)

- Dr. Shobha Gopalakrishnan attended a 1 day FDP on Test Pattern Generation using SAT attack organised by IISc Bangalore
- Dr. Arunkant A Jose attended a 6 day FDP on Recent advances in AI and IoT - An industry perspective organised by Periyar Maniammai Institute of Science and Technology (PMIST), Thanjavur
- Ms. Ancy Joy, Ms. Divya R S & Ms. Jisha Jacob attended a 6 day AICTE Training And Learning (ATAL) Academy Faculty Development Program on Recent Trends in VLSI Design Using Nanotechnology at Meerut Institute of Engineering and Technology.

STUDENTS ACHIEVEMENTS

YUVA Future 4.0

Swedha S (S5 ECE) has represented MITS at the regional level YUVA future 4.0 competition conducted at SCMS school of engineering and technology

Industrial Visit

Conducted industrial visit for S5 ECE students , the trip was 4 day visiting places such as coorg, chikkamangaluru, udupi.
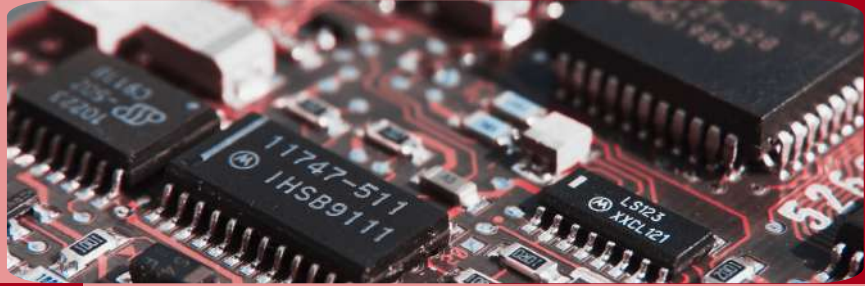

Idearun 2024 IEEE smart village

Afeef K.T (S5 ECE) is a part of The "Ecoloop" aquaponics project uses black soldier fly larvae as fish feed and filters fish waste through volcanic rocks and charcoal for plant absorption. The plants purify the water, which is recycled into the fish tank, creating a self-sustaining, solar-powered system with sensors and a microcontroller controlling the pumps. Won IdeaRun 2024 competition, at the IEEE Smart Village Symposium (ISV), held at Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat on 7th and 8th November 2024.

STUDENTS ACHIEVEMENTS

Carestack

BRIDGE with carestack is an initiative to bridge the campus to corporate skill gap and the session give a glimpse of what life is like practically inside a spftware product company .following are the list of S5 ECE students who attended the same: Athul S Kumar, Abhinav Anil Kurup,Afeef KT,Albin Eldhose ,Feona Jova ,Gopika R,Pranav R,Swedha S,Prashob S Nair,Thanmaya Rajith

Industrial Visit

The students of S7 ECE (2021-25 Batch) visited ACARR (Advanced Centre for Atmospheric Radar Reaerch), CUSAT, Kochi on 9th October 2024

Internship
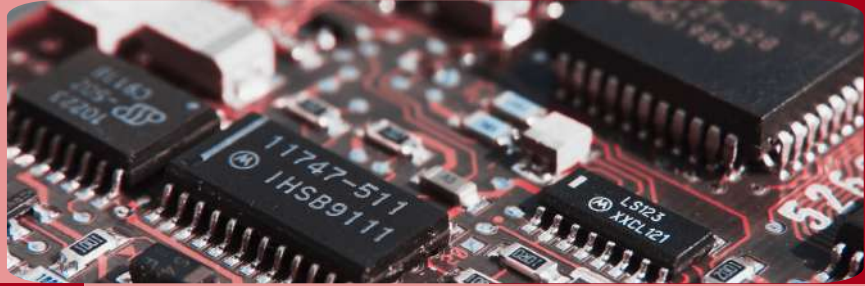
Three students from ECE: Basil Thankachan, Basil Roy and Abhijith S were selected for a 6 month internship at C-DAC trivandrumduring their final semster

Chipathon

The IEEE Circuits and Systems Society (CAS) conducted a highly anticipated Chipathon event in August 2024 at MITS. The event brought together bright minds to tackle real-world chip design challenges. Vibrant participation of the S5 ECE team consisting of members Athul S kumar , Albin Eldhose , Ann mariya Johnson , Harsha M , Vivek Thomas , Harsha H , Athmika whose innovative ideas and dedication shone throughout the competition

STUDENTS ACHIEVEMENTS

Toastmaster Events

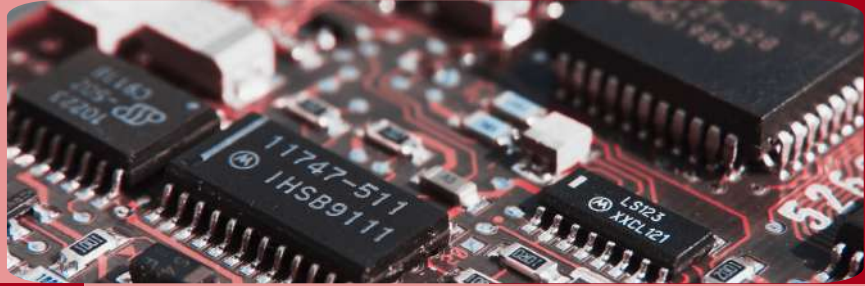Elaina Sara of S1 EC won first prize in Toastmaster event

NPTEL Certifications

39 students of 2022 ECE batch completed 12 NPTEL courses with the following certifications.

- Athul S Kumar , Diya Sahir , Gopika R , Jennifer Sara Sony , Megha Suresh and Nahan Parvin C S of 2022 ECE Batch secured Elite+Silver NPTEL Certification for the course Introduction To ML.
- Gaya S of 2022 ECE Batch secured Elite NPTEL Certification for the course Introduction to IoT.

- Hrushikesh Menon of 2022 ECE Batch secured Elite+Silver NPTEL Certification for the course Introduction to Industry 4.0 and Industrial Internet of Things.
- Afeef K T , Angel Dennis , Feona Jova Varghese , Helen Sandra Babu , Jiya Shajil , Prashob S Nair and Thanmaya Rajith of 2022 ECE Batch secured Elite NPTEL Certification for the course Introduction To ML
- Meenakshi S & Sanjana Suresh of 2022 ECE Batch secured Elite NPTEL Certification for the course Robotics.
- Harif H & Sayanth B S of 2022 ECE Batch secured Elite NPTEL Certification for the course Introduction to Industry 4.0 and Industrial Internet of Things.
- Dhilna K P of 2022 ECE Batch secured Elite NPTEL Certification for the course Analog Communication.
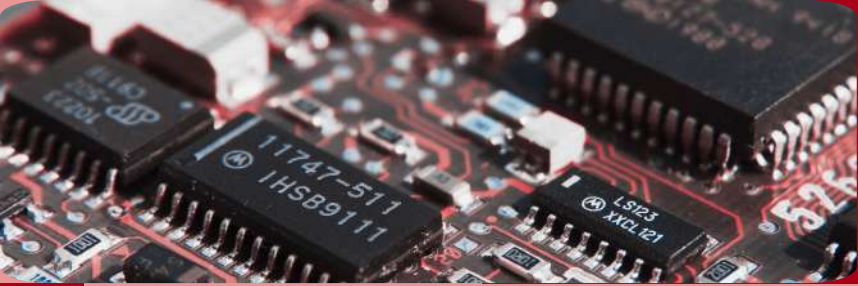
STUDENTS ACHIEVEMENTS

- Helen Sandra Babu and Vithul Vinu of 2022 ECE Batch secured Elite NPTEL Certification for the course Digital Circuits.
- Shelbin Tom Saju of 2022 ECE Batch secured Elite NPTEL Certification for the course Programming in Java.
- Gautham B of 2022 ECE Batch secured Elite NPTEL Certification for the course Simulation of Communication System using MATLAB.
- 1Aswin T S of 2022 ECE Batch secured Elite NPTEL Certification for the course Software Engineering.
- Edwin J Mathew , Elizabeth James , Harikrishnan CN , Nandukrishnan R and Nitin Rajesh of 2022 ECE Batch secured NPTEL Certification for the course Introduction To Machine Learning.
- Esha P Bobby of 2022 ECE Batch secured NPTEL Certification for the course Robotics .

- Abishek Jose of 2022 ECE Batch secured NPTEL Certification for the course Introduction to Industry 4.0 and Industrial Internet of Things.
- Ann Mariya Johnson of 2022 ECE Batch secured NPTEL Certification for the course Fabrication for MEMs- Based Sensors: Clinical Perspective.
- Alanto Noble and Albin Eldhose of 2022 ECE Batch secured NPTEL Certification for the course Essential Mathematics for Machine Learning.
- Jiya Shajil , Megha Suresh , Sayanth B S and Wasim Ibaque of 2022 ECE Batch secured NPTEL Certification for the course Digital Circuits.
- Gouri R , Gokul Krishnan S ,a Harsha M and Vithul Vinu of 2022 ECE Batch secured NPTEL Certification for the course Software Engineering.
- Krishna D of 2022 ECE Batch secured Certification for the course System Design Through Verilog .

STUDENT ACHIEVEMENTS

Sports

Sanjay Shiju Jhon from S1 EC is one of the 4 students from MITS selected to the KTU Volleyball Team.
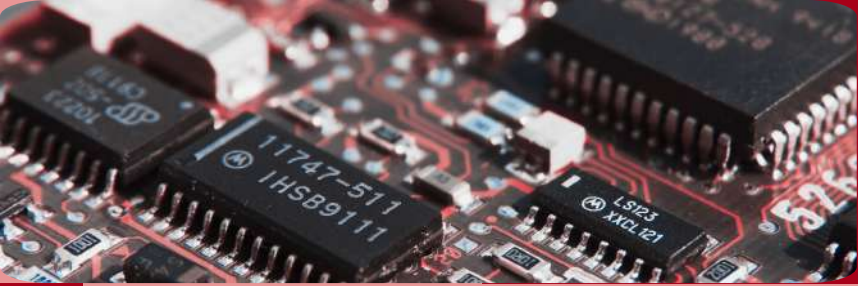
PLACEMENT STATISTICS

JOB OFFERS
10

Batch 2021-25

PLACED
9

INTERNSHIP OFFERS
9

GATE QUALIFIED
2

RESULT STATISTICS

PASS PERCENTAGE
87.5

PASS PERCENTAGE
83.33

S7
(2021 - 25 Batch)

S5
(2022 - 26 Batch)

STUDENTS PASSED
56/64

STUDENTS PASSED
55/66

S3
(2023 - 27 Batch)

STUDENTS PASSED
55/70

PASS PERCENTAGE
78.26