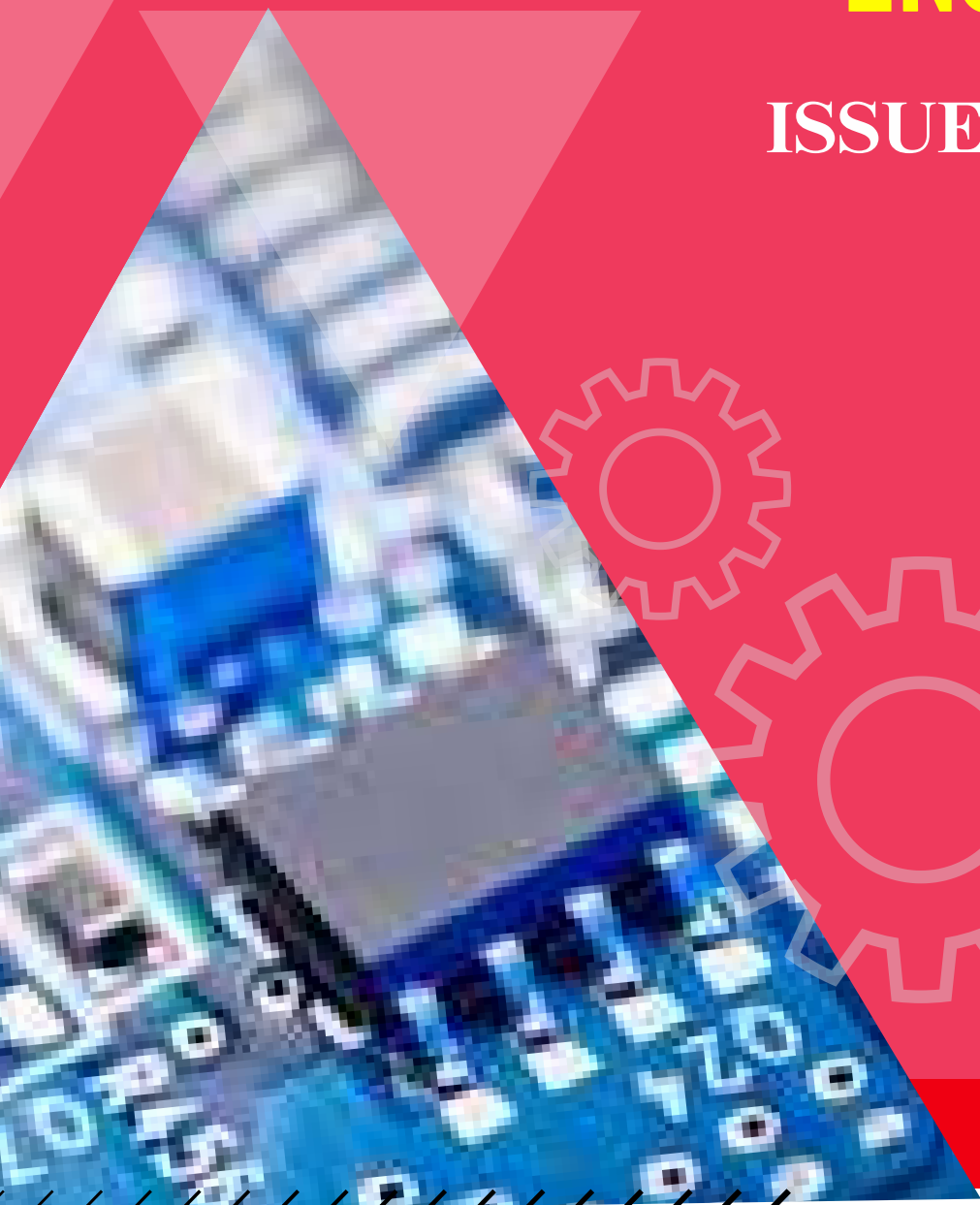




RESONANCE

ELECTRONICS & COMMUNICATION ENGINEERING

ISSUE JAN-JUN 2024



Muthoot
Institute of Technology & Science





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.

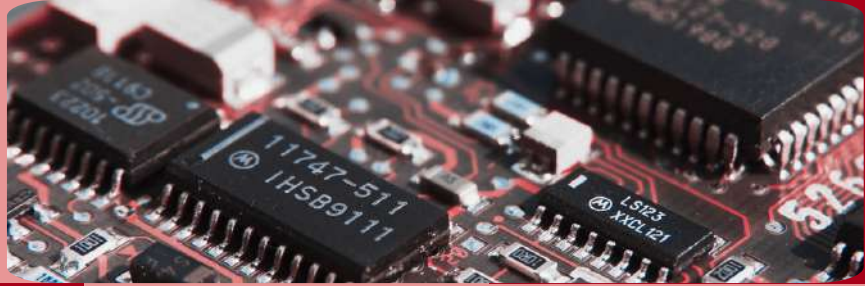
M4: To launch students successfully into one of a variety of careers offering lifelong learning, service, and leadership.

TECHNICAL TEAM

Faculty:- Jisha Jacob

Chief Editors:- Albin Eldhose (S6),
Athul S Kumar (S6)

Sub Editors:- Cerin Joshy (S4),
Karthik B.S (S4)

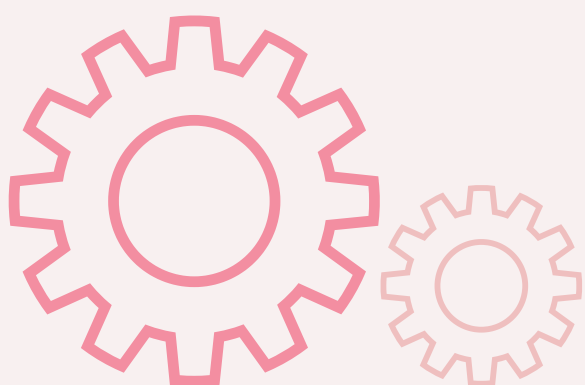


DEPARTMENT ACHIEVEMENTS

Technical Talks

The Association of the Department of Electronics & Communication Engineering organized a talk on "GEOPHYSICAL SIGNAL PROCESSING" by Dr. Selvia Kuriakose, Assistant Professor, Department of Marine Geology and Geophysics, CUSAT on April 22nd, 2024.

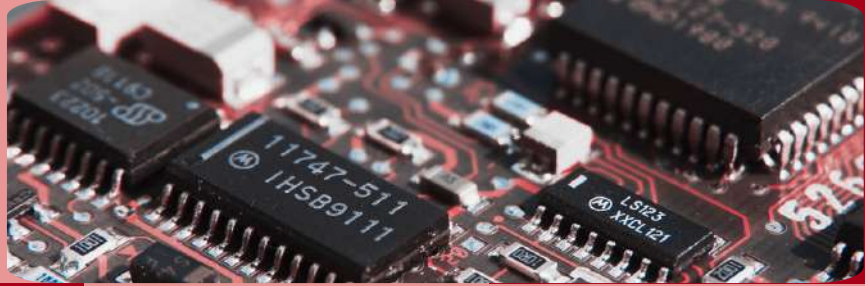
The Association of the Department of Electronics & Communication Engineering organized a talk on "Design and Synthesis of Fast Adders in Verilog" by Dr. Shobha Gopalakrishnan, Professor, Department of Electronics and Communication Engineering on Feb 21st, 2024.



3-Day Workshop

The Department of Electronics and Communication Engineering organized a 3-day workshop on "Electronic Product Building" from 19th to 21st February 2024, conducted by Mr. Antu Dominic.





DEPARTMENT ACHIEVEMENTS

Field Trip

The students of S5 ECE, accompanied by Dr. Arun A V and Mr. Nixon visited Maker Village as part of a field trip organized on 9th April 2024 by the Department of Electronics & Communications Engineering.

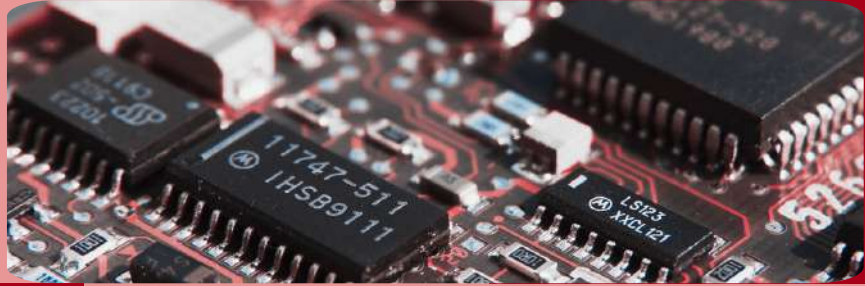


Faculty Development Program

All the faculty members of the Department of Electronics & Communications Engineering at MITS attended a Faculty Development Program on

Underwater Robotics: Research Opportunities and Challenges. The program was organized by AICTE Training And Learning (ATAL) Academy and took place at KMEA ENGINEERING COLLEGE from January 15th to January 20th, 2024.





FACULTY ACHIEVEMENTS

Dr. Prathibha Sudhakaran

Dr. Prathibha Sudhakaran successfully defended her PhD thesis titled



"Design and Development of a Continuous Speech Recognition System for Indian English" at Amity University, Jaipur. She also published a paper titled "An End- to-End Deep Learning Approach for an Indian English Repository"

in the Journal of Theoretical and Applied Information Technology (E-ISSN 1817-3195/ ISSN 1992-8645) on February 15th, 2024. Additionally, Dr. Prathibha Sudhakaran attended a one-week FDP on "Deep Learning and IoT Driven Smart Applications" organized

by the Department of Computer Science and Engineering at MLRIT from June 24th to 29th, 2024.

Ms. Nayana PK

In 2024, Ms. Nayana PK took part in several development programs.

She attended a five-day FDP on "Exploring



cutting-edge developments in NLP and Research Trends" conducted by the School of Computer Science and Engineering at Vellore Institute of Technology, Chennai from May 20th to 24th. Additionally, she participated in a five-day FDP on "Recent Trends in Teaching, Learning and Research in India" organized by the Research Foundation of India from May 27th to 31st.



FACULTY ACHIEVEMENTS

Ms. Nayana P K also joined the Professional Development Programme on "Outcome Based Education and Implementation" from June 18th to 20th. Finally, she attended a five-day FDP on "Recent Issues and Challenges in Communication and Signal Processing" organized by the IEEE and Continuing Education Cell from March 25th to 29th.

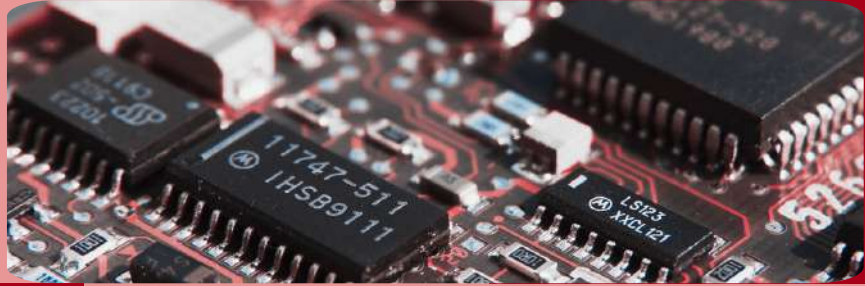
Dr. Arunkant A Jose

Dr. Arunkant A Jose, attended KTU BOS (Board of Studies) committee meeting at Mar Baselios Trivandrum.



This BOS meeting was for the preparation of KTU syllabus for the next five years till 2030 for Electronics and Communication Engineering and similar branches such as VLSI from 25th to 28th June, 2024. Dr. Arunkant A Jose, Asst. Prof, ECE MITS, attended an FDP on "AI Implementation in Electric Vehicles" conducted by SOET Sandip University, Nashik, Maharashtra from 22nd April to 27th April, 2024.

Dr. Arunkant A Jose, Asst. Prof, ECE MITS, attended an FDP on "Generative AI" conducted by the Dept of AI&DS, delivered by Dr. DY Patil from College of Engineering and Innovation, Varale, Pune from 01st April to 06th April, 2024.



DR. ARUN AV

Dr. Arun A. V. successfully defended his PhD thesis titled "Mathematical Modeling of Drain Current in TFET and Its Variants."

TEAM ACHIEVEMENTS

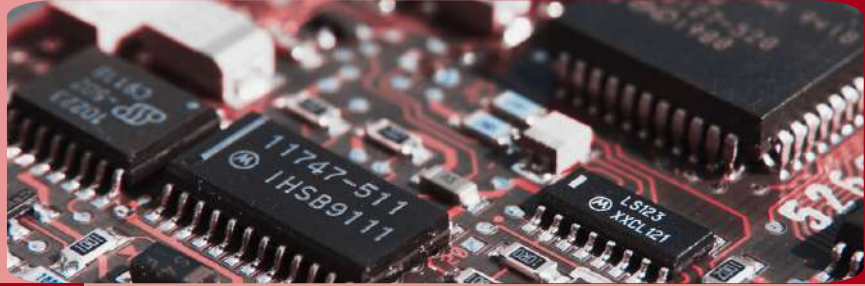


Anjali S V and Dr. Dhanya S presented a paper on Performance analysis of LEACH and PEGASIS routing protocols in a Wireless sensor network for smart water quality monitoring at the 15th INTERNATIONAL IEEE CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES (ICCCNT2024)

held at IIT - Mandi, Himachal Pradesh from 24th to 28th June, 2024.



Ms. Nayana P K and Ms. Sajana Salam won the first prize in the Women's Doubles category in the college-level Badminton Competition organised for MITS staff on 18th March, 2024. Additionally, Dr. Abhilash Antony and Ms. Nayana P K won the second prize in the Mixed Doubles category.



STUDENT ACHIEVEMENTS

MITS Shresta Award for Best Outgoing Student Akshay Sanjeev (2020-24)



MITS APJ ABDUL KALAM AWARD

1ST PLACE



Krishna Jayachandran, Alna Ashok, Tanha Nazer and Thalif Nazer secured the MITS APJ Abdul Kalam Award for the Best project (1st place) from ECE Department on 8th June, 2024.

MITS UNNATI AWARD FOR PROFICIENCY

First Place: Jeeva Mary Vinu (2020-24 Batch)



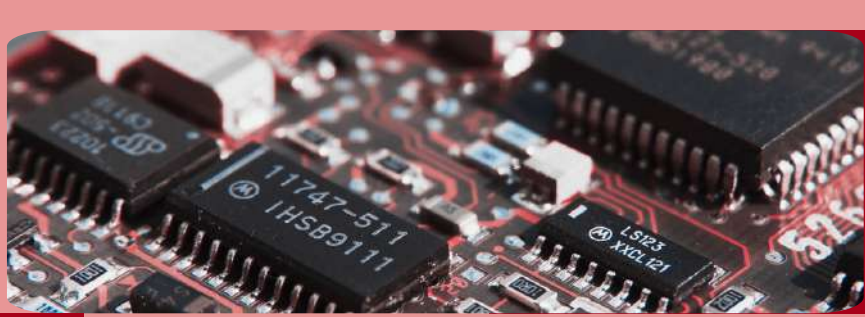
Second Place: Neha Maria Essy (2020-24 Batch)



2ND PLACE



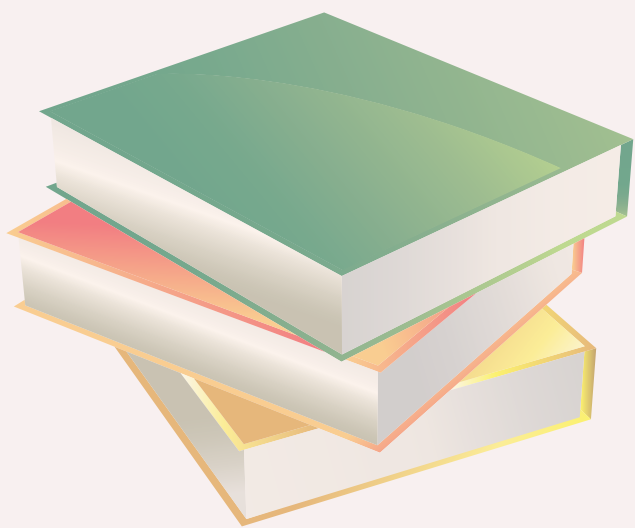
Aaron Xavier, Sruthy Sreekumar, Sreehari Sand Sandeep Krishnan secured the MITS APJ Abdul Kalam Award for the Best project (2nd place) from ECE Department on 8th June, 2024.



MITS TAGORE LIBRARY AWARD



Terin Thankachan (2020-24 Batch) received the MITS Tagore Library award for being the best library user among all the departments of 2020-24 Batch on 8th June, 2024..

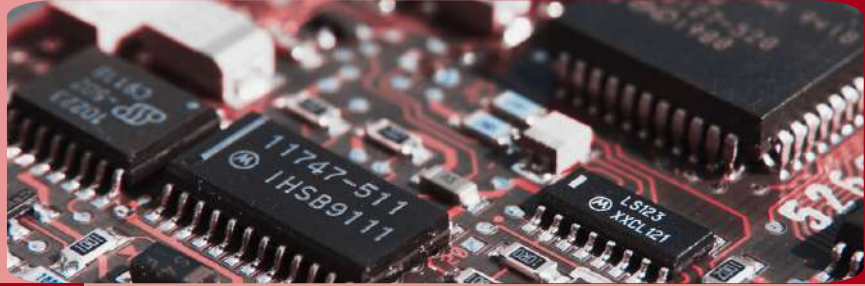


VARNAM 2024

Jasim Navas and Praveena P (2020-24 Batch) were valuable members of the team that achieved third place in the "Nostalgia" event, held on the 3rd of March, 2024. Praveena P (2020-24 Batch) was a member of the team that won the third prize in the "Nadan paattu" event on March 3, 2024.

Bensen Mathew (2020-24 Batch) was a member of the team that secured the first prize in the 'Group Dance' event on 3rd March, 2024.

Neha Jayachandran (2020-24 Batch) secured the second prize in the 'Essay Writing (English)' event on 3rd March, 2024.



Gouri R participated in the All India Inter-university Karate Championship in March, 2024.

Priyanandanan S qualified for the semi-finals of the ISRO rover design challenge.



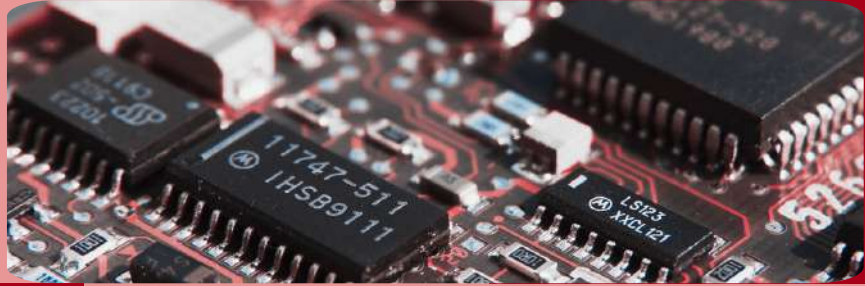
Annmariya Johnson and Athmika A from S5 ECE secured the first place, while Harsha Harikuttan and Harsha M came in second in the debugging contest organized by

Saint Gits College of Engineering.

Prashob S Nair was certified in Google Cloud Computing Foundations by google cloud.

Sooraj Sajeev ,Feona Dona Vargheese, Krishna D, and Gouri R qualified for the district-level in the YIP Program on May 28, 2024.

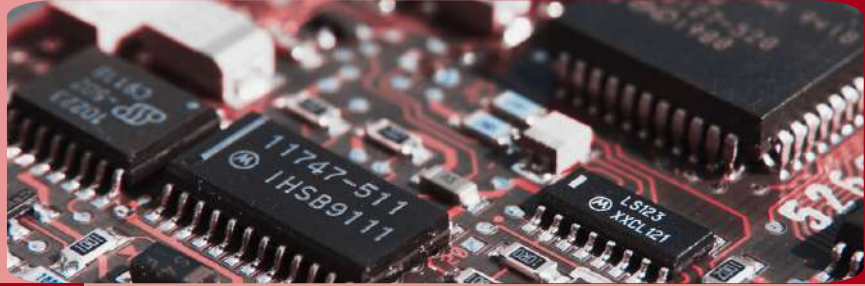




STUDENT ACHIEVEMENTS

- Swedha S from Electronics and Communication Engineering was certified NPTEL ELITE in mechatronics on April, 2024.
- Albin Eldhose from Electronics and Communication Engineering was certified NPTEL ELITE (Introduction to Programming in C) on 10th April, 2024 & (Digital Design with Verilog) on 9th May, 2024.
- Gouri R from Electronics and Communication Engineering was certified NPTEL ELITE (Digital Design With Verilog) on 9th May, 2024.
- Gokul Krishnan S from Electronics and Communication Engineering was certified NPTEL ELITE (Machine Learning) on 8th April, 2024.
- B Gautham from Electronics and Communication Engineering was certified NPTEL ELITE (Digital Design With Verilog) on 9th May, 2024.





STUDENT ACHIEVEMENTS

- Athul S kumar from Electronics and Communication Engineering was certified NPTEL ELITE(BRIEF INTRODUCTION TO MEMS) on 9th May, 2024.

- Shelbin Tom Saju from Electronics and
- Communication Engineering was certified in NPTEL ELITE (Introduction to Programming in C) on 10th April, 2024.

