DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NEWS LETTER

2024-25-Volume-1: Issue-2-December

VISION OF THE DEPARTMENT

To impart quality technical education in the field of Electronics and Communication Engineering in the young minds for serving the Society and Industry in a globally challenging environment

MISSION OF THE DEPARTMENT

To achieve the vision, the department will

•Impart quality education through state-of-the-art curriculum to meet global needs in Electronics and Communication Engineering field.
•Establish a conducive learning environment for continuous improvement to face the challenges in overall professional development.
•Instill competencies for working in interdisciplinary work culture
•Create desire for undertaking lifelong learning and entrepreneurship initiatives

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

Programme Educational Objectives (PEOs) are established through a consultation process. PEOs are broad statements that describe the career and professional accomplishments that the graduates should achieve three to five years after graduation. The Electronics and Communication Engineering programme graduates will

PEO1: Pursue their professional careers in Electronics and Communication Engineering and related fields by engaging in a global competitive landscape.

PEO2: Seek advanced education and actively enhance their professional skills.

PEO3: Effectively convey ideas and exhibit professionalism when collaborating within diverse teams.

PEO4: Exhibit good inter-personal skills and demonstrate concern for society and environment

PROGRAMME SPECIFIC OUTCOMES (PSOS)

On completion of the B.E (ECE) degree the Electronics and Communication graduates will be able to

PSO 1: Analyze and Design Electronic Systems for Signal Processing and Communication Applications.

PSO 2: Identify and Apply Engineering Tools for Design, Analysis, Synthesis and Validation of VLSI and Communication Systems.

PSO 3: Demonstrate the Conceptual Knowledge with Respect to Architecture, Design, Analysis and Deployment in Embedded Systems and Computer Networking.

CHIEF EDITORS

DR.T.C KALAISELVI
HOD/ECE

MRS R. PUSHPAVATHI
AP/ECE

MRS.A. ANITHARANI
AP/ECE

EDITORIAL STUDENT MEMBERS

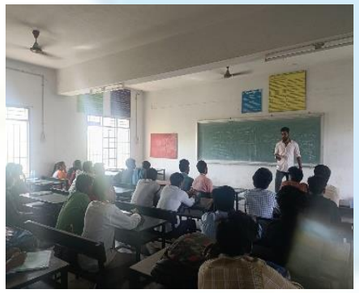
S. SIVARANJANI
III Year B.E.ECE

M. SOLOMONRAJA
III Year B.E.ECE

S. MOUNICA
II Year B.E.ECE

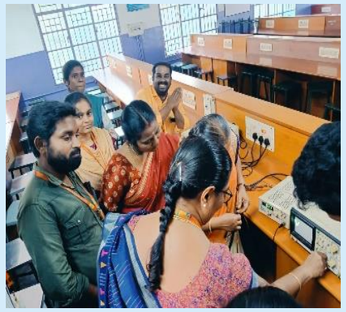
ACDEMIC ACTIVITIES

An **Industry Guest Lecture** on **"The Power of IoT and AI in Industry Automation"** was conducted on **04.10.2024**. The session was delivered by **Mrs. Sathya Raja**, Product Development Specialist, **Ibot.in**, highlighting the role of IoT and AI in revolutionizing industrial processes. It provided students with valuable insights into emerging technologies and their real-world applications.



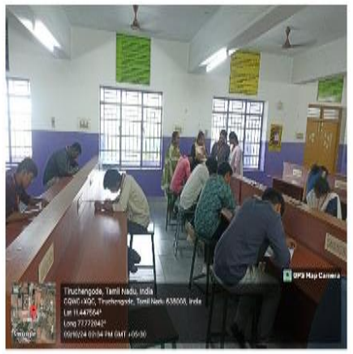
An **Alumni Guest Lecture** on **"Career Orientation and Planning in the ECE Domain"** was organized on **08.10.2024**. The session was delivered by **Mr. S. Panner Selvam**, Managing Director, **ABE Technologies**, who provided valuable guidance on career opportunities and strategic planning for students in the ECE field.

A **Conference** on **"Synergy of Semiconductor Innovations and Artificial Intelligence: Shaping the Future Technologies"** was held on **18.10.2024**. The session was led by **Dr. P. Mani**, Former Deputy Controller of Examinations, **Anna University, BIT Campus, Trichy**, who shared insights on the integration of semiconductor advancements with AI to drive future technological innovations.



A **Skill Development Program** was organized on **16.11.2024** to enhance students' technical and professional competencies. The program was coordinated by **Mrs. R. Pushpavathi** and **Ms. M. Jothiga**, Assistant Professors, **ECE Department**, focusing on improving practical skills and industry readiness.

IETE ACTIVITIES



The IETE (Institution of Electronics and Telecommunication Engineers) Student Chapter hosted a thrilling **Sudoku contest on October 09, 2024**, at [MB 207 Devices Laboratory]. The event saw active participation from over 50 IETE student members, who came together to test their logical reasoning and problem-solving skills

IETE students actively participated in a presentation on **"Multimedia in Motion: Real-Time System for Audio and Video Streaming"** held on **19.10.2024**. A total of **84 students** took part in the event, showcasing their innovative ideas and clearly explaining their work, demonstrating strong technical knowledge and presentation skills.

FACULTY ACHIVEMENTS

Dr. S. Anbukkaruppusamy published a research paper titled **"Scalable and Resolution Data Analysis of Image and Video Compression Using DL-CNNS Neural Network"** in **Circuits, Systems and Signal Processing**, indexed in **SCI**.

Dr. C. Karthikeyani published a research paper titled **"Eye Disease Prediction Using Deep Learning and Attention on OCT Scans"** in **Springer Nature**, indexed in **SCOPUS**.

Dr. K. Tamilarasi published a research paper titled **"An Enhanced LPRAFF with Tri-State Inverter Embedded Non-Clock Gating via the CT-GWO Algorithm"** in the **IETE Journal of Research**, indexed in **SCI**, October 2024.

Mr. S. Satheesh Kumar published a research paper titled **"Maximizing MIMO Spectral Efficiency Using Linear Discriminant Analysis (LDA) and DRL with Non-Linear Analysis"** in the **Journal of Computational Analysis and Applications**.

Mr. V. Arun Antony published a research paper titled **"Evolutionary Agents with Quantum-Based Nano Electric Circuit Design for Electronic Photonic Integrated Circuits"** in the **ICTACT Journal on Microelectronics**, indexed in **UGC**.

Mrs. A. Anitharani published a research paper titled **"Eye Disease Prediction Using Deep Learning and Attention on OCT Scans"** in **Springer Nature**, indexed in **SCOPUS**

STUDENT ACHIVEMENTS

M. Sivalingam, a III-year student, participated in a Symposium at Kongu Engineering College on 27th October 2024 and achieved I Prize.

M. Naveen Kumar, also a III-year student, competed in a Symposium at Paavai Engineering College on 8th November 2024 and won I Prize

B.S. Sekaran, a III-year student, participated in a Symposium held at Government College of Engineering on 22nd October 2024 and won III Prize