DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NEWS LETTER

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

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

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EDITORIAL STUDENT MEMBERS

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III Year B.E.ECE

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III Year B.E.ECE

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II Year B.E.ECE

ACDEMIC ACTIVITIES

A **Value Added Course** on **"AI-Based Embedded Systems"** was conducted on **31.01.2025**, **01.02.2025**, **15.02.2025**, and **01.03.2025**. The sessions were handled by **Dr. K. Mohanaprakash** and **Mr. K. V. Mohanaprasath**, Assistant Professors, **ECE Department**, focusing on integrating artificial intelligence with embedded systems to develop smart and innovative solutions.

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An **Academic Guest Lecture** on **"Building Smarter Systems: IoT Technologies, Data Insights, and Future Trends"** was organized on **15.02.2025**. The session was delivered by **Dr. C. Ganesh**, Associate Professor, **Sri Eshwar College of Engineering, Coimbatore**, providing students with valuable insights into IoT advancements, data-driven innovations, and emerging future trends in smart systems.

An **Academic Guest Lecture** on **"Challenges in Designing Low-Power VLSI Circuits"** was conducted on **12.03.2025**. The session was delivered by **Dr. V. Saravanan**, Professor and Head, Department of ECE, **Knowledge Institute of Technology, Salem**, focusing on techniques, design strategies, and emerging trends in low-power VLSI circuit design.

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An **Industry Guest Lecture** on **"Tech as a Catalyst for Seamless Operations and Enhanced Efficiency"** was organized on **28.03.2025**. The session was delivered by **Er. R. Thirugnanam**, Deviser, **TEKSHEI – Future Ready Manufacturing Solutions at Scale**, Trichy and Bhilai. The lecture highlighted the role of advanced technologies in optimizing operations and improving industrial efficiency.

An **Industry Guest Lecture** on **"Security and Privacy Challenges in 5G and Beyond"** was conducted on **01.03.2025**. The session was delivered by **Mr. Santhakumar Sivasamy**, Senior Cybersecurity Engineer, **Bannerman Inc., California, USA**. It provided valuable insights into the emerging security threats and privacy concerns in next-generation wireless communication networks.

An **Alumni Guest Lecture** on **"Digital Twins"** was organized on **29.03.2025**. The session was delivered by **Mr. M. A. Elanchezhian**, a researcher collaborating with **Periyar University** and **Agriculture University**. He shared insights on the applications of digital twin technology and its impact on various industries, including agriculture and smart systems.

An **Alumni Guest Lecture** on **"Data Intelligence in AI and Cloud Technologies"** was conducted on **29.03.2025**. The session was delivered by **Mr. K. Krishnakanth**, CEO & HR, **Thikse Software Solutions Pvt. Ltd.** He provided valuable insights into leveraging data intelligence through AI and cloud computing to drive innovation and efficiency in modern industries.

NON ACDEMIC ACTIVITIES

A **Non-Academic Event** on **"Gender Sensitization in Modern Society: Bridging the Gap"** was organized on **27.01.2025**. The session was coordinated by **Mrs. T. Nathiya** and **Mrs. N. Nithya**, Assistant Professors, **ECE Department**, aiming to promote awareness on gender equality and foster an inclusive environment.

A **Non-Academic Event** on **"Changing the World: Campus Environmental Efforts Beyond the Walls"** was conducted on **28.02.2025**. The event was coordinated by **Mr. P. Loganathan** and **Mr. S. Satheeshkumar**, Assistant Professors, **ECE Department**, focusing on creating awareness about sustainability and extending eco-friendly initiatives beyond the campus.

IETE ACTIVITIES

The **IETE – ISF Student Chapter** organized a **"Design Contest on Electronic Circuit Craft Design to Innovate"** on **30.01.2025**. Eight batches participated, designing innovative applications using the **IC 555 Timer**. The event was coordinated by **Mr. S. Satheesh Kumar** and **Ms. A. Anitha Rani**, AP/ECE.

FACULTY ACHIVEMENTS

Mrs. T. Nathiya published a research paper titled **"Multiobjective Optimization of EDM Machining Parameters of TiB_2 Ceramic Materials Using Regression and Gray Relational Analysis"** in the **High Temperature Materials and Processes** journal, indexed in **SCI**.

Mrs. R. Pushpavathi authored a book titled **"Digital Electronics"**, published by **RK Publishers**, with **ISBN: 978-8197121807**.

Ms. T. Nathiya authored a book titled **"LoRa IoT Network for Instant Forest Fire Detection and Alert System"**, published by **BP International**, with **ISBN: 978-93-48388-48-3**.

STUDENT ACHIVEMENTS

- **Won I Prize** in **Paper Presentation** at *ELMEDRONX 2K25*, **Annapoorna Engineering College**.
- **Won I Prize** in **Project Presentation** at *DIGIAVINYA 2K25*, **RVS College of Engineering & Technology**.
- **Won I Prize** in **Project Presentation** at *EMOREZ 2K25*, **RVS College of Engineering & Technology**.
- **Won I Prize** in **Project Presentation** at *E-NNOVATE 2K25*, **AVS Engineering College, Salem**.
- **Won II Prize** in **Project Presentation** at *PRATHYOGITHA 25*, **Kongu Engineering College**.