



ERODE SENGUNTHAR ENGINEERING COLLEGE



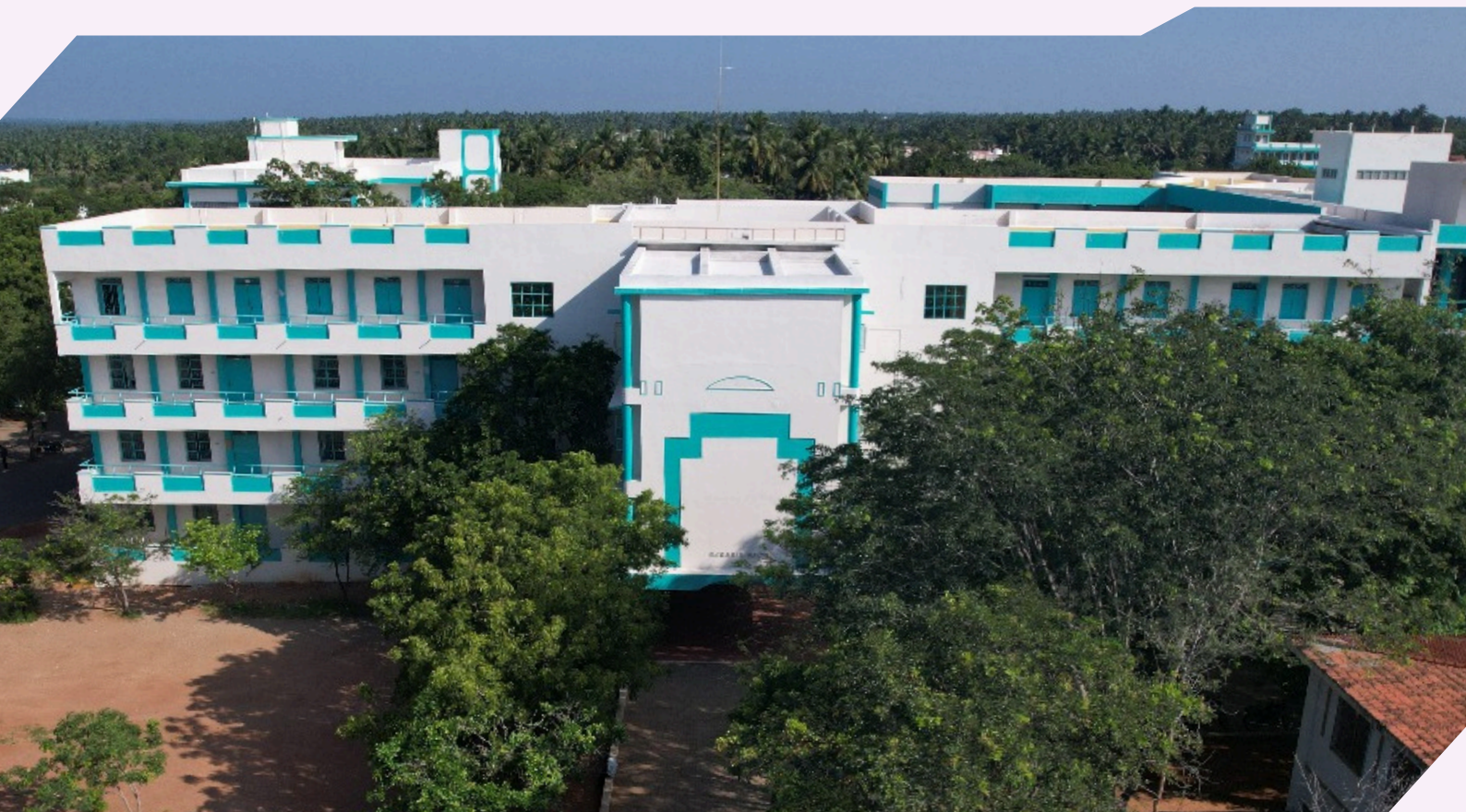
(An Autonomous Institution)

PERUNDURAI , ERODE - 638057



DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

M A G A Z I N E



MAY - JUNE(2026)

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was started in the year of 2000. It offers UG Programme (B.E.) in Electronics and Communication Engineering and PG Programme (M.E.) in Applied Electronics. The Department has also been recognized as a centre for carrying out Ph.D. Programme under Anna University. It has good infrastructural facilities with well- experienced and dedicated team of faculty members. The Department has signed MoU with various companies and has collaboration in Research & Development / Student Projects Consultancy works. The Department organizes National level Students' Technical Symposia and Project Exhibition every year.

VISION

To impart professional excellence, leadership qualities and competence, embedded with character in students and serve the society through research.

MISSION

- Create Learning Environment to serve the societal needs.
- Provide high quality ethical engineers for the Benefit of the Society.
- Impart State of art Technical Education to groom engineers with high professional standards.
- Promote innovative ideas and augment research to improve the quality of life through application of technology.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

- Impart the learners, an ability to understand and analytical, academic use and communication skills effectively with special emphasis to fulfill societal needs.
- Inspire the beginners to enrich their skills throughout career by learning about emerging technologies, adapting and accepting the changes to achieve leadership position in industry or academia.
- Prepare graduates to innovate products/solutions through research to real life problems for boosting the economy of the region and the nation.
- Prepare graduates to work effectively as a team and practice ethics in the profession
- with a sense of social responsibility.

PROGRAM SPECIFIC OUTCOMES (PSO)

- PSO 1: Interpretation Skills: Acquire skills to design, verify and validate electronic functional elements for a variety of applications.
- PSO 2: Core Competences: Ability to use hardware and software tools to solve complex problems in VLSI, Communication, RF and Embedded Systems.
- PSO 3: Attitude: Develop an attitude of lifelong learning for sustained career advancement and adapt to the changing multidisciplinary profession.

PROGRAM OUTCOMES(PO)

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

DEPARTMENT EVENTS

A Three-Day ANRF Sponsored Workshop on "Advancing Secure and Intelligent Cyber-Physical Systems: Integrating IoT, Embedded Platforms and Quantum AI for Real-World Applications" was organized from 08–10 June 2026. The workshop provided participants with comprehensive knowledge of Cyber-Physical Systems, Internet of Things (IoT), Embedded Systems, Quantum AI, and Cybersecurity through expert lectures and hands-on sessions. It enabled students to explore emerging technologies and their real-world applications in smart infrastructure, healthcare, manufacturing, transportation, and other intelligent systems while enhancing their technical skills and industry readiness.



KALAM HUB, a student-driven innovation startup, was launched to foster creativity, innovation, and technical excellence among students. Inspired by the vision of Dr. A.P.J. Abdul Kalam, the initiative focuses on skill development, project guidance, PCB design, embedded systems, software and web solutions, IoT, and other emerging technologies. The platform encourages students to transform innovative ideas into practical solutions, promoting entrepreneurship, hands-on learning, and industry-oriented technical expertise.

A Faculty Training Session on Siglent MSO Technologies was organized in connection with the establishment of the new Electronics Laboratory. Faculty members from the Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Electrical and Electronics Engineering departments participated in the programme. The training provided hands-on exposure to modern electronic test and measurement instruments, laboratory setup, and industry-standard practices through expert demonstrations and interactive technical sessions. The programme enhanced the participants' technical expertise and strengthened their ability to effectively utilize the newly established laboratory facilities for teaching, research, and innovation.



FACULTY ACHIEVEMENTS

Dr. G. Satheeshkumar received acceptance for his research paper titled “Chaotic Mountain Gazelle Optimized ANFIS Controller for Efficient Energy Distribution in Hybrid Power-Driven BLDC Motor Electric Scooters” at the IEEE International Conference on Intelligent Sustainable Future Technologies (ICSFT 2026). This achievement reflects his valuable contribution to innovative research in intelligent energy management and sustainable transportation systems, bringing recognition to the department through academic excellence.

STUDENT PARTICIPATIONS

WORKSHOP

Samitha A.J.K, Pirajin J, Sasikala P, Nandhitha G, Vedha Harshini K, Sirekha M, Sarathy R, and Ramya Devi T participated in the National-Level Two-Day Workshop on "Semiconductor & VLSI Design" organized by Ethical Edu Fabrica Pvt. Ltd. on 09–10 May 2026. The workshop provided participants with practical knowledge of semiconductor technology and VLSI design concepts, enhancing their technical skills and understanding of emerging trends in the electronics industry

Editorial Team



MRS.V.SAVIEETHA AP/ECE CO-ORDINATOR

I AM TRULY HONORED TO HAVE CONTRIBUTED TO THE CREATION OF MAGAZINE AND I EXTEND MY HEARTFELT GRATITUDE TO THE ENTIRE TEAM WHOSE DEDICATION MADE THIS POSSIBLE.

DR.S.BHARATHIDASAN HOD/ECE

I AM DELIGHTED TO HAVE LED THE TEAM OF EDITORS WHO CONTRIBUTED TO THIS MAGAZINE. THEIR CREATIVITY, CURIOSITY, AND COMMITMENT HAVE TRULY BROUGHT THIS PUBLICATION TO LIFE. WORKING WITH MY STUDENTS HAS BEEN A REWARDING AND MEMORABLE EXPERIENCE.



**ESAKIGANESHAN R
- EDITOR**

**BHARANIDHARAN R
- CONTENT WRITER**



THANK YOU