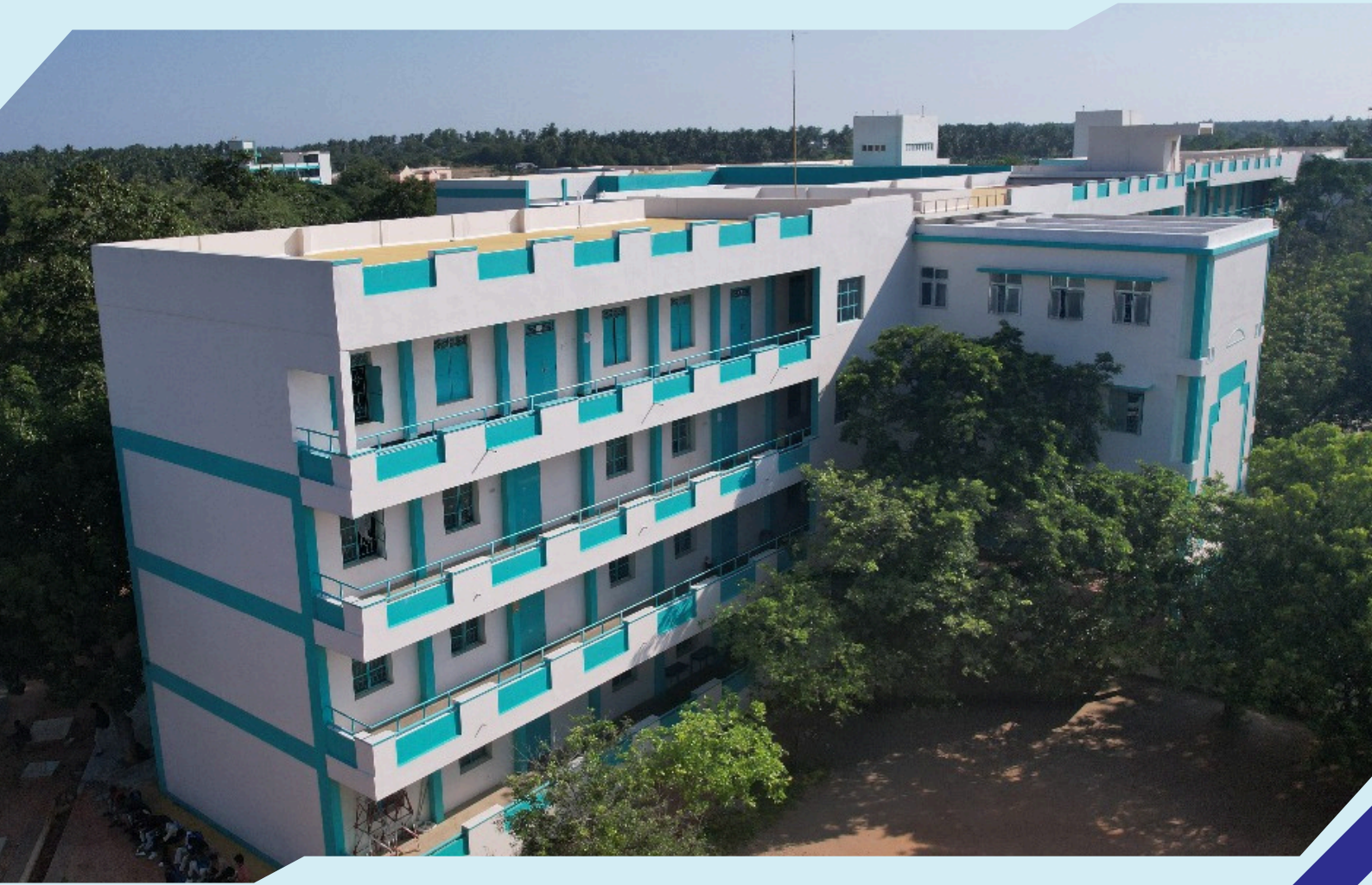
ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution)

PERUNDURAI , ERODE - 638057

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MAGAZINE



JAN - FEB (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.

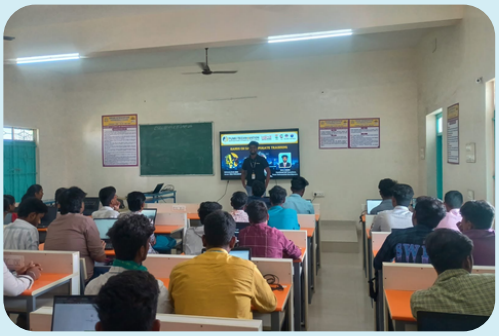
Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

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.

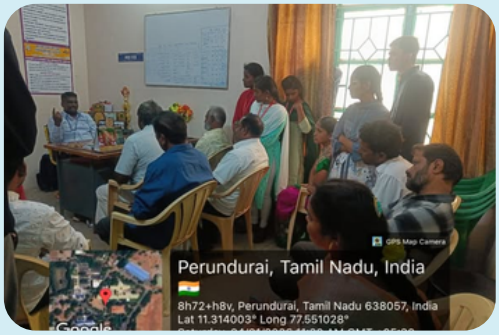
ASSOCIATION ACTIVITIES

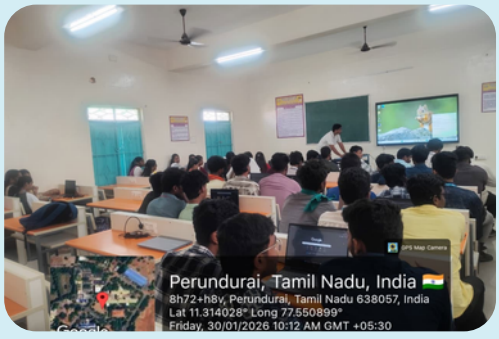
The vibrant festival of Pongal was celebrated on 09 January 2026 with great enthusiasm and traditional spirit. Students and faculty actively participated in the festivities, showcasing the richness of Tamil culture through colourful decorations and traditional attire. The celebration promoted unity, gratitude, and respect for our cultural heritage, making the occasion truly memorable.



A Two-Day Hands-on Training Program was conducted on 22–23 January 2026 in coordination with the Institution's Innovation Council (IIC). The sessions on Industry-Ready SAP Functional Consulting and Embedded Systems with IoT provided students with practical exposure, industry insights, and hands-on experience. The program enhanced students' technical knowledge, problem-solving skills, and career readiness through interactive learning with industry experts.

A Parents' Meeting for II ECE (A & B) was conducted with the active participation of parents. Discussions focused on students' academic performance, attendance, discipline, and overall development. The meeting provided an opportunity for meaningful interaction between parents and faculty, strengthening their shared commitment towards student success.

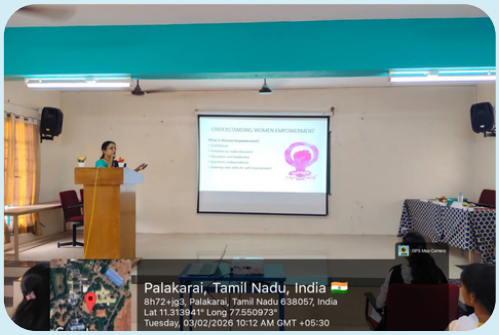




A two-day hands-on training program on "Unlocking the Cloud: AWS Essentials for Beginners" was conducted on 29–30 January 2026. The program introduced students to the fundamentals of Amazon Web Services (AWS) and cloud computing through practical sessions led by industry experts. It enhanced participants' technical knowledge and provided valuable insights into cloud technologies and their real-world applications.

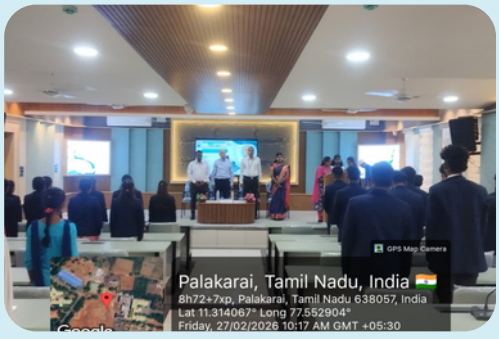
ASSOCIATION ACTIVITIES

A seminar on "Health is Power" was conducted on 03 February 2026 by the Women Empowerment Cell in association with the Department of Electronics and Communication Engineering. The session created awareness about women's health, wellness, and preventive care, providing students with practical guidance for maintaining a healthy lifestyle. The interactive session encouraged participants to prioritize their well-being and adopt healthy habits.



A seminar on "The New Addiction Triangle: S3" was conducted on 03 February 2026 to create awareness about modern lifestyle addictions and their impact on physical and mental well-being. The session highlighted preventive strategies, healthy lifestyle practices, and the importance of maintaining a balanced life, encouraging students to make informed and responsible choices.

A two-day hands-on workshop on "Raspberry Pi Development: From Core Architecture to Hands-on Implementation" was conducted on 05–06 February 2026. The workshop provided students with practical knowledge of Raspberry Pi architecture, embedded system development, and real-time implementation through interactive hands-on sessions, enhancing their technical and problem-solving skills.



A one-day workshop on "Embedded Systems: From Code to Circuits" was conducted on 27 February 2026. The workshop provided students with practical insights into embedded system architecture, firmware development, hardware–software integration, and industrial applications. The interactive sessions enhanced participants' technical knowledge and strengthened their understanding of real-world embedded system design.

FACULTY ACHIEVEMENTS

PATENT PUBLICATIONS

S.V. Saveeithaa was granted a patent for the innovation titled "AI-Based Archaeological and Historical Location Age Detecting Device." The patent was published/granted on 05 January 2026, recognizing her valuable contribution to research and innovation in the field of Electronics and Communication Engineering.

CONFERENCE

Ms. Vidhya S presented a research paper titled "Design and Performance of Compact Coplanar Waveguide-Fed Cylindrical Dielectric Resonator Antenna for Wireless IoT Systems" at the IEEE International Conference on Intelligent Communication, IoT and Cyber-Physical Systems (ICIICS 2026) held on 20–21 February 2026. The paper received acceptance, highlighting the department's continued contribution to quality research and innovation.

STUDENTS PARTICIPATION

WORKSHOP

Sasikumar V, Someshwar N, Naveena P, Sathish R, Selvasezhiyan R, Syed Mohammed S.R, Tammilselvan S, Vedha Harshini K, Ramya Devi T, Nivetha Sri E, and Jothi Sree M actively participated in the National-Level Two-Day Hands-on Training Program on Embedded Systems with IoT and SAP Functional Consulting held on 22–23 January 2026. The program enhanced their practical knowledge, technical skills, and industry readiness.

Nandha Engineering College: Gopika A participated in the National-Level Workshop on Hydrotech 4.0, gaining practical knowledge of emerging technologies.

Karpagam College: Bavithra S participated in the National-Level Workshop on Metaverse 26, gaining insights into advanced digital technologies.

RIT: Dineesh Kumar K.S participated in the Five-Day National-Level Technical Programme on Mechanics and Programming of Serial Manipulators, enhancing his knowledge in robotics and automation.

Brand Monk Academy: Ishwarya S participated in the National-Level Video Editing Webinar, gaining exposure to digital media and content creation.

Karpagam Institute: Srinath P participated in the National-Level Workshop on FPGA to ASIC, strengthening his knowledge of VLSI design and hardware implementation.

STUDENTS PARTICIPATION

PAPER PRESENTATION

Jayashree M, Bharanidharan R, Deepitha M, and Esakiganeshan R represented the department by participating in National-Level Paper Presentation Competitions conducted at Kongu Engineering College and Jai Shriram Engineering College during January 2026. Their presentations reflected strong research aptitude, technical knowledge, and effective communication skills.

Elantheriyan V represented the department by participating in the National-Level Paper Presentation Competition organized by the Government College of Engineering, Erode. His participation reflected technical knowledge and effective presentation skills.

Hari Prasanth V.K participated in the National-Level Paper Presentation Competition organized by KSR College of Technology, showcasing his research aptitude and technical competence.

Kanakaveni M, Keerthana P, Muhamathu Amar K, Harita N, and Kalaivani M represented the department by participating in the National-Level Paper Presentation Competition organized by Coimbatore Institute of Technology, showcasing innovative ideas and research excellence.

Charunethra A.B, Gowsi T.S, Kanishka P, Dharshini E, Dharshini Priya J, and Ammu V participated in the National-Level Paper Presentation Competition organized by Kangeyam Institute, demonstrating research aptitude and presentation skills.

Srinath P, Srirekha M, Murali R, and Sarathy R represented the department by participating in the National-Level Paper Presentation Competition organized by Karpagam Institute of Technology, enhancing their technical knowledge and research-oriented learning.

TECHNICAL EVENTS

Giri Sudhan K participated in the Five-Day National-Level Technical Education Programme organized by RIT, gaining valuable industry-oriented knowledge and technical exposure.

Bavithra S and Daniel Vibin C participated in the National-Level TECHFEST 2K26 organized by Karpagam College, enhancing their technical knowledge and innovative thinking.

Ruba Shree A.S and Rabini P participated in the National-Level Technical Event organized by KSR College of Technology, gaining practical exposure to emerging technologies.

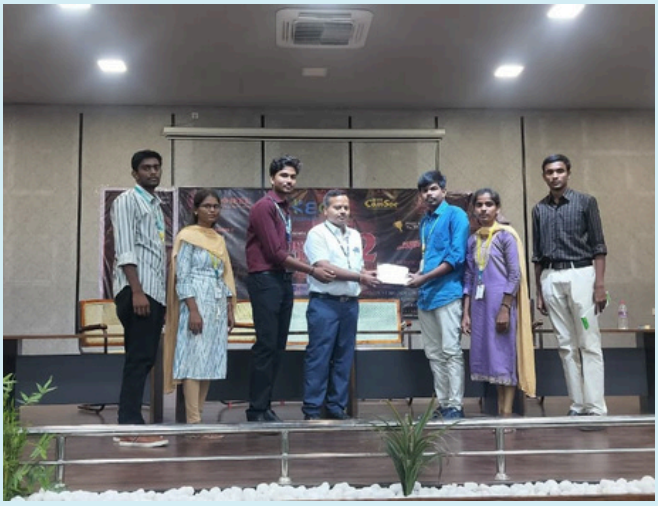
Indhuja S, Gowsi T.S, Murali R, Karthikeyan S, and Srinath P participated in the National-Level Tech Quiz organized by Karpagam College, strengthening their analytical thinking and problem-solving skills.

Jothi Raja M and Jejo Andrewraj J participated in the National-Level Varanam Technical Event organized by Karpagam College, enhancing their technical and practical skills.

STUDENTS PARTICIPATION

PROJECT PRESENTATION

Jayashree M, Bharanidharan R, Deepitha M, and Esakiganeshan R showcased their innovative project at the National-Level Project Presentation conducted by Kongu Engineering College, securing the Second Prize. They further presented their project at Jai Shriram Engineering College, where they achieved the First Prize. These remarkable accomplishments reflect their technical excellence, innovation, teamwork, and presentation skills, bringing pride to the department.



HACKATHON

Ashwin J. K brought laurels to the department by securing the First Prize in the NIDAR Hackathon, organized by the Drone Federation of India (DFI), New Delhi, on 16 January 2026. His outstanding performance showcased innovation, creativity, and excellence in technical problem-solving.

EDITORIAL BOARD

Ms.V.SAVIEETHA, AP/ECE
Coordinator

Grateful to have been part of the Magizine creation. My appreciation goes out to the incredible team whose dedication made it possible.

DR.S.BHARATHIDASAN
HOD/ECE

Proud to have been part of the magazine's creation. My heartfelt appreciation to the dedicated team whose hard work and creativity made this achievement possible.

ESAKIGANESHAN R
- EDITOR

BHARANIDHARAN R -
CONTENT WRITER

THANK YOU