



ERODE SENGUNTHAR ENGINEERING COLLEGE



(An Autonomous Institution)

(Approved by AICTE, New Delhi Permanently Affiliated to Anna University - Chennai)

Accredited by NAAC & National Board of Accreditation (NBA), New Delhi.)

PERUNDURAI, ERODE – 638 057

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Vision

- ✦ To provide competent and ethical electrical engineers finding solution to problem related to society, environment and industry using innovative technologies.

Mission

- ✦ To make a positive difference among electrical and electronics engineering students through innovative teaching learning methods
- ✦ To provide electrical and electronics engineering knowledge base at large for the upliftment of different background people
- ✦ To instill research oriented mindset and to develop well-furnished electrical and electronics engineering research labs
- ✦ To inculcate the moral and ethical values among students in order to make them competent and quality electrical and electronics engineers

Program Educational Objectives (PEOs)

- ✦ To impart fundamental electrical and electronics engineering knowledge through collaborative and case study methods of teaching learning process
- ✦ To produce quality electrical and electronics engineering graduates with in-depth technical knowledge including current issues and challenges in this field
- ✦ To develop and enhance research based facilities so as to address the industrial issues and challenges
- ✦ To imbibe effective communication, interpersonal and other managerial skills for the holistic development of EEE students

Program Outcomes (POs)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **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.

Program Specific Outcomes (PSOs)

PSO1: Real World Knowledge- Apply the knowledge in solving the real time problems and solutions to issues and challenges in Electrical and Electronics Engineering technologies.

PSO2: Interdisciplinary Skill- Design and develop interdisciplinary and innovative system.

PSO3: Personality Development – Imparting effective communication, team work and leadership skills for a successful career in industry and R&D.

ASSOCIATION ACTIVITIES



Workshop on “Energy Auditing of Renewable energy resources” was conducted on 30.01.2020. Mr. P.Premkumar PCRA was the resource persons. More than 120 students were participated in this workshop.



National Level Students Technical Symposium DYNAFEST '20 held on 06.02.2020 and 07.02.2020. Er.M.Murugu Elan Thendral B.E., Technical In-Charge for Tamil Nadu, ACC Ltd., Coimbatore was the chief guest of this function. More than 200 students were participate in this paper presentation.



National Level Students Technical Symposium DYNAFEST'20 Contest held on 06.02.2020 and 07.02.2020. Er.S.Prabhakaran, B.Tech., Factory Manager, Britannia Industries Ltd., SIPCOT, Perundurai has visited our department and encouraged the student's project presentation.

PAPER PRESENTED BY THE STUDENTS:

- M.Karthick of II year EEE presented a paper on the topic “Fiber Optical Sensor” conducted by Kongu Engineering College, Perundurai on 02.02.2020.
- M.Karthick of II year EEE presented a paper on the topic “Underwater Windmill” conducted by KPR Institute of Technology, Coimbatore on 21.02.2020.
- S.Lingeswaran of II year EEE presented a paper on the topic “Hybrid Capacitor” conducted by Angel College of Engineering and Technology, Tiruppur on 28.02.2020.

- S.Lingeswaran of II year EEE presented a paper on the topic “Ultra Capacitor” conducted by Kongu Engineering College, Perundurai on 10.03.2020.
- M.Karthick of II year EEE presented a paper on the topic “Optical Fiber Cables” conducted by Kongu Engineering College, Perundurai on 10.03.2020.
- Saranya of II year EEE presented a paper on the topic “Eddy Current Breaks” conducted by Kongu Engineering College, Perundurai on 10.03.2020.
- R.Krishnakumar of II year EEE presented a paper on the topic “Survey of Colene Prevention” conducted by Kongu Engineering College, Perundurai on 10.03.2020.
- M.Karthick of II year EEE presented a paper on the topic “Fiber Optical sensor” conducted by Kongu Engineering College, Perundurai on 08.06.2020.

SEWMINAR / WORKSHOP ATTENDED BY THE STUDENTS:

- M.Sumithra of II year EEE attended a workshop on the topic “Middleware Technologies” conducted by KSR College of Technology, Tiruchengode on 10.02.2020.
- M.Karthik, S.Lingeswaran and S.Vinothkumar of II year EEE attended a workshop on the topic “App Development” conducted by KPR Institute of Technology, Coimbatore on 21.02.2020.
- S.Lingeswaran of II year EEE attended a workshop on the topic “Truck Circuits” conducted by KPR Institute of Technology, Coimbatore on 22.02.2020
- S.Vinothkumar and M.Karthik of II year EEE attended a workshop on the topic “Shuffle Your Mind” conducted by KPR Institute of Technology, Coimbatore on 22.02.2020
- S.Vinothkumar and M.Karthik of II year EEE attended a seminar on the topic “Black Chainx” conducted by KPR Institute of Technology, Coimbatore on 22.02.2020.

- P.Karthikraj, M.Karan, Pandian, M.Akash Joel, N.Keethiraj, B.Olivanan and E.Dinesh of II year EEE attended a workshop on the topic “Robotics” conducted by SRM College of Engineering, Chennai on 10.03.2020.
- M.Karthik of II year EEE attended a workshop on the topic “Web Page Designing” conducted by Shaw Academy from 05.04.2020 to 28.04.2020.

ONLINE WEBINAR ATTENDED BY THE STUDENTS:

- R.Krishnakumar of II year EEE attended a webinar on the topic “Protection and Switchgear ” conducted by PSNA College of Engineering and Technology, Dindigul from 20.02.2020 to 21.02.2020.
- Gunasekaran and M.Karthik of II year EEE attended a webinar on the topic “Protection and Switchgear” conducted by PSNA College of Engineering and Technology, Dindigul on 10.03.2020.
- Saranya of II year EEE attended a webinar on the topic “Internet of Things” conducted by National Institute of Technolgy, Tiruchi on 13.04.2020.
- M.Karthik and V.Nandhini of II year EEE attended a webinar on the topic “Synchronous” conducted by IEEE PES Student Branch of EEE from 16.04.2020 to 18.04.2020.
- R.Krishnakumar of II year EEE attended a webinar on the topic “Internet of Things and Its Application” conducted by IEEE PES Student Branch of EEE from 13.04.2020 to 15.04.2020.
- R.Krishnakumar and K.Sowmiya of II year EEE attended a webinar on the topic “Industry Connect” conducted by IEEE PES Student Branch of EEE from 25.04.2020 to 05.05.2020.
- V.Nandhini of II year EEE attended a webinar on the topic “Machine Learning” conducted by Erode Sengunthar Engineering College, Perundurai on 02.05.2020.

- S.Lingeswaran of II year EEE attended a webinar on the topic “GST” conducted by TCS ION on 03.05.2020.
- R.Krishnakumar of II year EEE attended a webinar on the topic “India’s First Leadership Talk” conducted by MHRD’s Innovation Cell on 03.05.2020.
- R.Krishnakumar of II year EEE attended a webinar on the topic “Digital Learning Resources” conducted by Tiwari College of Engineering on 03.05.2020.
- K.Sowmiya of II year EEE attended a webinar on the topic “Industry Connect” conducted by IEEE PES Student Branch of EEE on 05.05.2020.
- A.Buveneswaran of III year EEE attended a webinar on the topic “Carrier Opportunities” on 08.05.2020.
- M.Karthik, V.Nandhini and R.Krishnakumar of II year EEE attended a webinar on the topic “Fundamentals of Electronics and Telecommunication” conducted by Pillai HOC College of Engineering & Technology, Khalapur on 14.05.2020.
- M.Karthik, K.Sowmiya, M.Sumithra, Saranya and R.Krishnakumar of II year EEE attended a webinar on the topic “Grid Connection and Standalone” conducted by Erode Sengunthar Engineering College, Perundurai on 14.05.2020.
- A.Buveneswaran, R.Gayathri, T.Mahanandhi, S.rajashobia and K.Vinithini of III year EEE attended a webinar on the topic “Grid Connected & Standalone Micro grid Design Using Homepro” on 14.05.2020.
- T.Mahanandhi and S.Janani of III year EEE attended a webinar on the topic “Protection and Switchgear” on 22.05.2020.
- R.Gayathri, T.Mahanandhi, S.rajashobia, S.Pushpalatha and K.Vinithini of III year EEE attended a webinar on the topic “Internet of Things” on 22.05.2020.
- M.Sumithra of II year EEE attended a webinar on the topic “A Step Ahead” conducted by Nandha Engineering College, Perundurai on 12.06.2020.

- K.Sowmiya of II year EEE attended a webinar on the topic “Basics of Customer Services” conducted by TCS ION on 15.06.2020.
- M.Sumithra of II year EEE attended a webinar on the topic “Thinking Process” conducted by PSNA College of Technology, Dindigul on 27.06.2020.

INTERNATIONAL CONFERENCE PRESENTED BY THE STUDENTS:

- S. Bharathiraja, P.Gokul and A.Shalini of IV year EEE presented an international conference paper on the topic “Bluetooth Based Industrial Automation Using Embedded System” conducted by Marthandam College of Engineering & Technology, Marthandam from 12.03.2020 to 13.03.2020.
- K. Ranjith Kumar, C. Vigneshwaran and P. Mohan PRASATH of IV year EEE presented an international conference paper on the topic “Intelligent Energy Efficient In Pressurized Water System” conducted by Marthandam College of Engineering & Technology, Marthandam from 12.03.2020 to 13.03.2020.
- U. Abinaya, P. Hariharan and S. Ajithrao IV year EEE presented an international conference paper on the topic “Minimizing Penalty Of Industrial Power Consumption by Engaging APFC Unit at Micro Distribution in TPS-I Expansion NLCIL” conducted by Marthandam College of Engineering & Technology, Marthandam from 12.03.2020 to 13.03.2020.

PAPER PUBLISHED BY THE FACULTY MEMBERS:

- Mr. L.Anbarasu and N.Jothippriya published a journal paper on the topic “Intelligent Energy Efficiency in Pressurized Water System” in International Journal of Research in Engineering and Management, Vol.4,2020,pp.62-67, March 2020.
- Mr. L.Vijay Anand and R.Senthilkumar published a journal paper on the topic “Minimizing Penalty of Industrial Power Consumption by Engaging APFC Unit at Micro Distribution in Thermal Power Station-1 Expn NLCIL” in International Journal of Research in Engineering and Management, Vol. 4, 2020, pp.52 – 61, March 2020.

- **Dr.P.Selvan published a journal paper on the topic “Auto Power Supply Change Over from Different Sources to Emergency Panel at Thermal Power Station” in Adalya Journal, Volume no 9, Issue 5, pp.369-372,May 2020.**

ESEC EEE NEWS LETTER