



ERODE SENGUNTHAR ENGINEERING COLLEGE



(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



The inauguration of EEE association (DYNAFEST 2018-19) ,IQAC,IE(I) Student Chapter and IEEE student branch activities for the academic year 2018-19 was held on 13.07.2018. Mr. G.M.Dharmalingam, Factory Manager, Sri Ratna Lakshmi Spinning Mills, Perundurai, inaugurated EEE association IE (I) Student Chapter and IEEE student branch activities.



“Tesla Day Celebration” celebrated on 13.07.2018, organized by Department of EEE, Erode Sengunthar Engineering College, Erode. Students are participated on various events like PPT, Multimedia presentation about the Tesla inventions.



DST NIMAT Sponsored Entrepreneurship Awareness camp – Phase 1” was conducted on 13.08.2018. Mr. M.Marimuthu, Managing Director, KM Square Digital Marketing Company, Chennai was the resource person. More than 200 students were participated in this camp.



DST NIMAT Sponsored Entrepreneurship Awareness camp – Phase 2” was conducted on 20.08.2018. Rtr. Rakkappan Ganesan, Managing Director, Mr. K.Groups, Chennai was the resource person. More than 200 students were participated in this camp.



National Level Students' Technical Symposium DYNAFEST '18 held on 30.08.2018 and 31.08.2018. Dr.S.Kalirajan, General Manager, Head-Special initiatives (Nuclear), L&T constructions, Chennai was the chief guest of this function.



National Level Students' Project Contest held on 30.08.2018 and 31.08.2018. Er. M.Prabu, Manager-Helicopter wing, Hindustan Aeronautical Limited, Bengaluru has visited our department and encouraged the student's project presentation.



DST NIMAT Sponsored Entrepreneurship Awareness camp – Phase 3” was conducted on 20.09.2018. Er. S.Siva Subramanian, Former EE/TANGEDCO Project Engineer, IPDS (Integrated Power Distribution Scheme), Erode was the resource person. More than 200 students were participated in this camp.



IEEE-SPAC (IEEE-Student Professional Awareness Conference) was conducted on 20.09.2018. The resource person was Ms. R. Sasiprabha, Assistant Professor, Department of commerce, PKR Arts and Science College for women, Gobichettipalayam.



Workshop on Energy Awareness in Academia in association with FICCI was conducted on 29.10.2018. Mr. R.Santhakumar, CEO, eClouds, Coimbatore and Mr. Joshua George, Head HSE&QMS- EDAC Engineering, Chennai were the resource persons. More than 200 students were participated in this workshop.

PAPER PRESENTED BY THE STUDENTS:

- M.Haripriya & S.Janani of II year EEE presented a paper on the topic “Automatic power system” conducted by Sengunthar Engineering College, Tiruchengode on 18.09.2018 & 19.09.2018.
- S.Gopi & S.Sathish kumar of II year EEE presented a paper on the topic “Wireless power transformer” conducted by Sengunthar Engineering College, Tiruchengode on 18.09.2018 & 19.09.2018.
- K.Vinothini & M.Santhosh of II year EEE presented a paper on the topic “Fossil fuels” conducted by Sengunthar Engineering College, Tiruchengode on 18.09.2018 & 19.09.2018.
- R.Gayathri & R.Raghul of II year EEE presented a paper on the topic “Solar powered vehicle” conducted by Sengunthar Engineering College, Tiruchengode on 18.09.2018 & 19.09.2018.
- R.Sabarikrishnan & K.V. Gopal of II year EEE presented a paper on the topic “Application of WLAN to automatic vehicle” conducted by Sengunthar Engineering College, Tiruchengode on 18.09.2018 & 19.09.2018.
- S.Santhoshkumar & S.Raghul of II year EEE presented a paper on the topic “Automatic Parking system” conducted by Park college of Engineering and Technology, Coimbatore on 18.09.2018 & 19.09.2018.
- T.Mahanandhini & S.Rajashobika of II year EEE presented a paper on the topic “Wireless power transmission” conducted by Park college of Engineering and Technology, Coimbatore on 18.09.2018 & 19.09.2018.
- A.Santhosh & V.Karuppasamy of II year EEE presented a paper on the topic “Automatic power management grid tide solar system” conducted by Park college of Engineering and Technology, Coimbatore on 18.09.2018 & 19.09.2018.

- P.Akila & M.Pavithra of III year EEE presented a paper on the topic “Electrical drives and control” conducted by K.S.Rangasamy College of Technology Tiruchengode on 27.09.2018.
- A.Shalini & S.Valarmathi of III year EEE presented a paper on the topic “Solar powered vehicle” conducted by K.S.Rangasamy College of Technology Tiruchengode on 27.09.2018.
- S.Kalaiselvam & S.Anbarasan of II year EEE presented a paper on the topic “Automatic power management grid tide solar system” conducted by Coimbatore Institute of Technology, coimbatore on 29.09.2018.
- P.Janarthanan & S.Gopalakrishnan of II year EEE presented a paper on the topic “Robotics” conducted by Coimbatore Institute of Technology, coimbatore on 29.09.2018.
- M.B. Jawahar & V.Vigneshwar of II year EEE presented a paper on the topic “Foot step power generation” conducted by Coimbatore Institute of Technology, coimbatore on 29.09.2018.
- V.Navanitha Krishnan & K.Sureshkumar of II year EEE presented a paper on the topic “Wireless power transmission” conducted by Coimbatore Institute of Technology, coimbatore on 29.09.2018.
- M.Bharathi & B.Pavunraj of II year EEE presented a paper on the topic “Wireless communication” conducted by Coimbatore Institute of Technology, coimbatore on 29.09.2018.

WORKSHOP ATTENDED BY THE STUDENTS:

- K.Yuvaraj, K.A.Vijay, N.Bhuvaneshwaran, U.Venkatesan & P.Lognathan of IV year EEE attended a workshop on the topic “Integration of Renewable Resource-New CEA Guidelines for solar and wind Farms” conducted by S.A. Engineering College, Chennai on 24.08.2018 & 25.08.2018.
- V.Naveenkumar & P.Mohan prasath of III year EEE attended a workshop on the topic “Expanding prospects with ROS and IoT for cloud robotics” conducted by Sri Ramakrishna Institute of Technology, Coimbatore on 10.09.2018 & 11.09.2018.
- S.Gopalakrishnan & T.Gowritharan of II year EEE attended a workshop on the topic “Real time project design using ARDUINO Tools and Techniques” conducted by Kongu Engineering College, Erode on 20.09.2018.
- P.Gokul ,N.Nithish, P.Hariharan, C.Hariprasath & M.Sudharsan of III year EEE attended a workshop on the topic “Applications of power electronic converters in solar photo voltaic systems – MATLAB hands-on” conducted by VIT, Vellore on 28.09.2018 & 29.09.2018.

- U.Abinaya & M.Mohanapriya of III year EEE attended a workshop on the topic “Hands on training on Python programming” conducted by SNS College of technology, Coimbatore on 27.09.2018.

CONGRATULATIONS

RS 1,00,000/- FUNDS RECEIVED

TITLE : Entrepreneurship Awareness Camp

FUNDING AGENCY : DSTNIMAT (EDI)

FACULTY NAME : Dr.M.SHYAMALAGOWRI



CONGRATULATIONS
RS.3,82,500/- FUNDS RECEIVED

TITLE: Field technician –Water purifier and other home appliances

FUNDING AGENCY : PMKVY, AICTE, New Delhi

FACULTY NAME : Dr. R. MuthuKumar



CONGRATULATIONS
RS.4,25,000 /- FUNDS RECEIVED

TITLE : Solar Panel Installation Technician

FUNDING AGENCY : PMKVY, AICTE, New Delhi

FACULTY NAME : Mr. G.Gunasekaran



L.ANBARASU, AP (Sr. Gr.) /EEE

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