



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



➤ The Department of Electrical and Electronics Engineering arranged a Seminar on “Plant Disease Analysis and Control using Automated Agrobot” on 18.02.2022. Mr.B.Gopalakrishnan, Assistant Professor/EEE, Angel College Engineering and Technology, Tiruppur has delivered the Seminar. More than 150 students were participated in this function.

- The Department of Electrical and Electronics Engineering arranged a National Level Students Technical Symposium on “MICRONS 2K22” on 22.04.2022. Mr.U.Pradeepkanthan, Associate Project Engineer, HITACH ENERGY, Chennai has delivered the Guest Lecture.

GUEST LECTURES/LEADERS TALK:

- Electrical and Electronics Engineering Department has organized Leader’s Talk on “Importance of Artificial Intelligence” by alumni, Selvi R. Gayathri, (2019 passed out) who is workings as Software developer in Aspire system, Chennai for II year students on 29.04.2022.
- Electrical and Electronics Engineering Department has organized ‘Leader’s Talk’ on “Auto Mobile room light controller” by alumni, Selvan T. Jayasurya, (2019 passed out) who is workings as Graduate trainee in East India Company, Chennai for II & IV year students on 22.02.2022.
- Electrical and Electronics Engineering Department has organized ‘Leader’s Talk’ on “BICMOS Technology” by alumni, Selvan.S. Subash (2019 passed out), who is workings as Service Engineer in NCR, Chennai for II & III year students on 12.03.2022.
- Electrical and Electronics Engineering Department has organized ‘Leader’s Talk’ on “Home Automation System” by alumni Selvi N. Pushpalatha (2019 passed out), who is

workings as Customer Relationship officer in Focus Edumatics, Chennai for II year students on 16.04.2022.

- Electrical and Electronics Engineering Department has organized ‘Leader’s Talk’ on “Inteligent wireless video camera” by alumni Selvi K. Vinothini who is workings as Program Analyst in Webberax, Chennai for II & III year students on 21.04.2022

PAPER PUBLISHED BY THE FACULTY MEMBERS:

- Dr.A Johny Renoald published a paper on “Experimental investigation and comparative harmonic optimization of AMLI incorporate modified genetic algorithm using for power quality improvement” Journal of Intelligent & Fuzzy Systems, vol. Pre-press, no. Pre-press, pp. 1-14, 2022, 18 February 2022 ISSN Online : 1875-8967 Impact Factor : 1.7739.
- Dr.A Johny Renoald published a paper on “Design and development of extract maximum power from single-double diode PV model for different environmental condition using BAT optimization algorithm” Journal of Intelligent & Fuzzy Systems, vol. Pre-press, no. Pre-press, pp. 1-12, 2021 19 January 2022 ISSN Online : 1875-8967 Impact Factor : 1.7739.
- Dr.A Johny Renoald published a paper on “Design and Investigation of Solar PV Fed Single-Source Voltage-Lift Multilevel Inverter Using Intelligent Controllers” Journal of Control, Automation and Electrical Systems (2022) ISSN: 2195-3880 Impact Factor : 1.7739.
- Mr.L.Anbarasu published a paper on “Renewable Energy based Smart Micro-grid System using Artificial BEE Colony Algorithm Optimized PI Controller and Efficient LUO Converter” Dynamic Systems and Applications 30 (2021) No. 8, 1362 – 1382 ISSN 1056-2176. Impact Factor: 0.622.

- Dr.A Johny Renoald published a paper on “An Experimental Simulation Testing of Single-diode PV Integrated MPPT Grid-tied Optimized Control Using Grey Wolf Algorithm” 2022 : 5877 – 5896.
- Dr.A Johny Renoald published a paper on “Design and Investigation of Solar PV Fed Single-Source Voltage-Lift Multilevel Inverter Using Intelligent Controllers” J Control Autom Electr Syst 33, 1537–1562 (2022).

INTERNATIONAL CONFERENCE PRESENTED BY THE FACULTY MEMBERS:

- Dr. P. Selvan and Dr.M.Shyamalagowri presented a paper on “LED Lighting System using Sensor less Illumination Controlling with Neural Network” International Conference on Management, Engineering, Science and Humanities, organied by Builder’s Engineering College, Nathakadaiyur, Tiruppur Dt on 19.01.2022.
- Dr. P. Selvan and Dr.M.Shyamalagowri presented a paper on “Real Time Power Management for Energy Conservation at Load Point” International Conference on Management, Engineering, Science and Humanities, organied by Builder’s Engineering College, Nathakadaiyur, Tiruppur Dt on 19.01.2022.
- Dr. P. Selvan and Dr.M.Shyamalagowri presented a paper on “AC-DC Power Factor Correction and Half Bridge Rectifier Resonant tank Combo Controller” International Conference on Management, Engineering, Science and Humanities, organied by Builder’s Engineering College, Nathakadaiyur, Tiruppur Dt on 19.01.2022.

PATENT PUBLISHED BY THE FACULTY MEMBERS:

- Ms.S.Tamilselvi published a patent titled on “Improved Security Level in ATM machine using Biometric based Authentication system” Application number 202241005522 and dated 21/03/2022.

Ph.D. Completed by Faculty members (June 2021- May 2022)

S.No	Department	Name of the Faculty Member	Date of Viva	College/University
1	EEE	L.Anbarasu	21.03.2022	Anna University

2018-2022 BATCH PLACED STUDENTS DETAILS

ERODE SENGUNTHAR ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICALS AND ELECTRONICS ENGINEERING
Placed students-2022
Congratulations

We hope for your continued success...

 S. LINGESWARAN ONE BILL SOFTWARE	 M. UMA TCS	 M. MYTHILI TCS	 R. MUGILAN WIPRO	 M. KARTHIK WIPRO	 D. SARANYA AVASOFT	 S. SOWMIYA AVASOFT	 N. KEERTHI RAJ WEBBERAX
 P. KARTHIKRAJ AVASOFT	 J. JAYAKUMAR JOB WORLD	 D. NIRMAL JOB WORLD	 V. MOWLEESWARAN JOB WORLD	 M. AAKASH JOEL JOB WORLD	 V. NANDHINI JOB WORLD	 K. UMA MAHESWARI JOB WORLD	 P. GOMATHI NCR CORPORATION INDIA PVT. LTD.,
 R. SANGEETHA NCR CORPORATION INDIA PVT. LTD.,	 E. DINESH NCR CORPORATION INDIA PVT. LTD.,	 T. GUNASEKARAN NCR CORPORATION INDIA PVT. LTD.,	 M. KARAN PANDIYAN NCR CORPORATION INDIA PVT. LTD.,	 B. OLIVANAN NCR CORPORATION INDIA PVT. LTD.,	 P. POOVESH NCR CORPORATION INDIA PVT. LTD.,	 S. SUGISIVAM NCR CORPORATION INDIA PVT. LTD.,	 S. VINOTH KUMAR NCR CORPORATION INDIA PVT. LTD.,

Dr P Selvan and L Anbarasu**Chief Editors****ESEC EEE Newsletter****Editorial Committee****R.KRISHNAKUMAR- IV EEE****M. MYTHILI – IV EEE****N. KEERTHIRAJ – IV EEE****Erode Sengunthar Engineering College****Perundurai, Erode - 638 057****Phone: 04294-232701, 702**