



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.

WORKSHOP / SEMINAR ATTENDED BY THE STUDENTS:

- S. Sugisivam of III year EEE attended a workshop on the topic “Vehicle Communication through Antennas” conducted by Coimbatore Institute of Technology on 27.03.2021..
- S. Sugisivam of III year EEE attended a workshop on the topic “Role of FPGA in Renewable Energy Sources” conducted by Coimbatore Institute of Technology on 27.03.2021.

PAPER PUBLISHED BY THE FACULTY MEMBERS:

- Mr. L. Anbarasu / AP (Sr. G.r) published a paper on “Predictive data regression technique based carbon nanotube biosensor for efficient patient health monitoring system” in Springer, 10th March 2021.
- Mr. E Immanuel Bright / AP published a paper on “High Speed Internet of Things Based Flood Alert System with ARDUINO Controller” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.639-642.
- Mr. L. Anbarasu / AP (Sr. G.r) published a paper on “Air, Water, and Noise pollution monitoring and controlling using IoT” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.656-659.
- Mr. L. Anbarasu / AP (Sr. G.r) published a paper on “RFID based automatic fuel station” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.660-663.
- Mr. L. Vijay Anand and Dr. R. Muthukumar published a paper on “Fault Detection And Monitoring PV System” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.636-638.

- Mr. E Immanuel Bright and Dr. R. Muthukumar published a paper on “High gain LUO converter based grid connected Hybrid energy system” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.643-646.
- Ms. N. Jothipriya published a paper on “High Gain DC-DC Converter For Three Phase Grid Interactive PV Battery System” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.647-650.
- Ms. S. Tamilselvi published a paper on “Integrated DC-DC converted for Grid Tied Bi-Directional EV charging” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.627-631.
- Mr. S. Vijayanand published a paper on “Wireless Power Transfer Based on High Frequency Inverter for EV Applications” in the Suraj Punj Journal for Multidisciplinary Research Springer, ISSN NO: 2394-2886, Volume 11, Issue 4 (March 2021), pp.651-655.

PLACED STUDENTS DETAILS

S. No.	NAME OF THE STUDENTS	NAME OF THE COMPANY
1.	ANBARASAN	NCR
2.	BHARATHI	FOCUS EDUMATICS
3.	DEEPA	KIML
4.	GAYATHRI	ASPIRE SYSTEMS
5.	GOPI	FOCUS EDUMATICS
6.	GOWRITHARAN	VOLTECH
7.	HARIPRIYA	NCR
8.	JANARTHANAN	NCR VOLTECH
9.	JAWAHAR	TCS

		EAST INDIA
10.	JAYASURYA	EAST INDIA
11.	KARUPPASAMY	WEBBERAX
12.	KEERTHIVASAN	FOCUS EDUMATICS
13.	KRISHNAVENI	KIML
14.	MAHA NANDHINI	KIML
15.	MAHENDRAN	FOCUS EDUMATICS
16.	MOHAN	VOLTECH
17.	MOHANAPRIYA	KIML
18.	NAVANITHA KRISHNAN	FOCUS EDUMATICS
19.	NITHIYANANDHI	KIML
20.	PAVUNRAJ	NCR
21.	POOJA	FOCUS EDUMATICS
22.	PRADEEPKUMAR	FOCUS EDUMATICS
23.	PRUTHIVIRAJ	EAST INDIA
24.	PUSHPALATHA	FOCUS EDUMATICS
25.	RAGHUL	EAST INDIA
26.	RAGUL S	FOCUS EDUMATICS
27.	RAJASHOBIA	FOCUS EDUMATICS
28.	RAMAR	NCR
29.	RAVI ARAVINTH	NCR
30.	SANTHOSH A	NCR
31.	SANTHOSH M	VOLTECH
32.	SATHISH KUMAR	NCR
33.	SUBASH	NCR
34.	SUBHASHINI	NCR
35.	SURESHKUMAR	FOCUS EDUMATICS
36.	VIGNESHWAR	VOLTECH
37.	VINOTHINI	WEBBERAX
38.	GOWTHAM	FOCUS EDUMATICS / INFOSYS
39.	JANANI	KIML
40.	KALAISELVAM S	KIML
41.	KAVIARASAN	WEBBERAX
42.	BUVANESHVARAN	VOLTECH

43.	GOPALAKRISHNAN	VOLTECH
44.	SANTHOSHKUMAR	VOLTECH
45.	SIVAPRIYAN	VOLTECH
46.	THIRUMOORTHY	VOLTECH
47.	VIVEK	VOLTECH

Ph.D. Registered During January 2021

S. No.	Name of the faculty	Registered during
1.	L. Vijay Anand	January 2021
2.	E. Immanuel Bright	January 2021
3.	S. Tamil Selvi	January 2021

FUND RECEIVED

Name of the faculty	Project Title	Project Type	Funding Agency	Amount (in Rs.)	Duration
		Research / Consultancy			
Dr. M. Shyamalagowri	Hybrid and Electric Vehicles: Development, Integration and Challenges	Short Term Training Programme	AICTE New Delhi	3,33,333	6 Days

BOOK / BOOK CHAPTER PUBLICATION DETAILS

S. No.	Name of the Author	Title of the Book / Book Chapter	Name of the Publications
1	Dr G S Satheshkumar S Tamil Selvi	Applications of Multi-Agent System in Power System Engineering	Intech Open Multi Agent Systems - Strategies and Applications
2	L.Vijay Anand E. Immanuel Bright S.Vijayanand R.Senthilkumar	Sensor less BLDC motor with Reduced Commutation Torque Ripples using DTC Technique	Emerging Research in Engineering and Technology
3	L.Vijay Anand E. Immanuel Bright S.Vijayanand R.Senthilkumar	New Bridgeless Single Phase AC-DC Power Factor Correction Rectifiers Based on Cuk and Sepic Topology	Contemporary Research in Engineering and Technology ,Mangalam Publications, Delhi

Dr P SELVAN and L ANBARASU Chief Editor, ESEC EEE Newsletter

Editorial Committee

M. SANTHOSH & R .GAYATHRI- IV EEE