

# Newsletter

**S.A.ENGINEERING COLLEGE (AUTONOMOUS)**

ACCREDITED BY NAAC WITH 'A' GRADE & ISO 9001:2015 CERTIFIED INSTITUTION  
POONAMALLEE AVADI MAIN ROAD, CHENNAI-77



**DEPARTMENT  
OF ELECTRICAL  
AND  
ELECTRONICS**

The design of this memoir is to deduce strictly from a few principles, obtained chiefly by experiment, the rationale of those electrical phenomena which are produced by the mutual contact of two or more bodies, and which have been termed galvanic; its aim is attained if by means of it the variety of facts be presented as unity to the mind.

- Georg Ohm

TOP NEWS OF THE MONTHS

**JUN2023 - AUG2023**

## **VISION**

**Conferring Excellent Technical Education with Greater Emphasis on Quality Systems, Moulding Persons for the National Development.**

## **MISSION**

- **To Enhance the Quality Education by Providing State-of-Art Infrastructure with Committed Faculty.**
- **To Provide Prerequisite Skills For the Needs of Higher Education, Industries and Research Establishments.**
- **To Handle Socio Economic Challenges of Society by Instilling Human Values and Ethical Responsibilities.**

## PROGRAM EDUCATIONAL OBJECTIVES

### **Graduates will be able**

**PEO 1:** To demonstrate enhanced competence for successful career in the core and allied fields of Electrical & Electronics Engineering.

**PEO 2:** To explore challenges in higher education and research with a multidisciplinary perspective and effective communication for lifelong learning.

**PEO 3:** To inculcate entrepreneurial skills, upholding professional ethics, cultural aspects, societal and environmental factors for sustainable development.

**PEO 4:** To adapt evolving technologies and stay contemporary to cultivate leadership quality through effective collaboration.

## PROGRAM OUTCOMES

Engineering Graduates will be able to:

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 (PSO)**

### **Students will be able to:**

1. Utilize coherent theoretical and practical methodologies to design and implement Electrical and Electronics systems.
2. Assimilate facts of basic Electronics to Power Electronics and recent embedded technologies for governing, consistent and workable Electrical and Electronics Systems.
3. Apply computing platform and developing software for power grids and hybridizing the new renewable energy to overcome the power demand.

## **EDITORIAL BOARD**

- **Dr.G.Rohini** Editor In Chief
  - **Mr.R.Kamalakannan** Editor
  - **Mr.S.Santhosh** Editor
  - **Ms.R.Deepalakshmi** Editor
  - **Mr.G.Yogeshwaran** Web and Graphics Editor
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<b>S.NO</b>	<b>DATE</b>	<b>EVENT</b>	<b>YEAR</b>
<b>1</b>	<b>16.07.2023</b>	<b>VALUE ADDED COURSE</b>	<b>III-YEAR</b>
<b>2</b>	<b>20.07.2023</b>	<b>GUEST LECTURE</b>	<b>III-YEAR</b>
<b>3</b>	<b>24.08.2023</b>	<b>INDUSTRIAL VISIT</b>	<b>III-YEAR A III-YEAR B</b>

16/07/2023

## VALUE ADDED COURSE



The department of EEE has organized the Value Added Courses for III YEAR About “**Battery Management System**” on 16/07/2023—18/07/2023. A battery management system can be comprised of many functional blocks including: cutoff FETs, a fuel gauge monitor, cell voltage monitor, cell voltage balance, real-time clock (RTC), temperature monitors, and a state machine. There are many types of battery management ICs available.

20/07/2023

## GUEST LECTURE



The department of EEE has organized the Guest Lecture For third Year About “**Load Flow Analysis**” On 20/07/2023. Dr.G.Rohini felicitated the chief guest with the memento. The guest delivered the lecture on Load flow analysis is one of the basic power system analyses in the stage of planning, design and operation of power systems. This is used to calculate the steady state performance of the system under various possible operating conditions and study the effects of changes in equipment configuration.

24/08/2023

## INDUSTRIAL VISIT



The department of EEE has organized Industrial visit for III A & B YEAR “ECI SYSTEMS PVT LTD” ,THIRUMUDIVAKKAM,CHENNAI ON 24/08/2023 & 25/08/2023. Eci Systems Private Limited is a Private incorporated on 25 January 2005. It is classified as Non-govt company and is registered at Registrar of Companies, Coimbatore. Its authorized share capital is Rs. 10,000,000 and its paid up capital is Rs. 6,940,000. It is involved in Architectural, engineering and other technical activities