

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

We have a tremendous investment in facilities for (internal combustion engines, transmissions, and axles) and I can't see throwing them away just because the electric car doesn't emit fumes.

-Henry Ford



DEC2021 - APR2022

TOP NEWS OF THE MONTHS



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
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INDEX

S.NO	DATE	EVENT	YEAR
1	02.12.2021	ISO AUDIT	-
2	14.12.2021	IIC CELEBRATION	II-YEAR
3	22.12.2021	HACKTHON	III-YEAR IV-YEAR
4	22.12.2021	HACKTHON	III-YEAR
5	27.12.2021	VALUE ADDED COURSE	II-YEAR
6	26.01.2022	GUEST LECTURE	FINAL YEAR
7	19.04.2022	VALUE ADDED COURSE	II-YEAR
8	19.04.2022	INTERNATIONAL WORKSHOP	ALL YEAR
9	19.04.2022	NSS ACTIVITY	EEE STUDENT
10	22.04.2022	TECHKNOWN 2022	III-YEAR
11	23.04.2022	PROJECT AWARD	III-YEAR
12	30.04.2022	INDUSTRIAL VISIT	II-YEAR

02/12/2021

ISO AUDIT



ISO audit conducted at S.A. Engineering college on 02/12/2021

14/12/2021

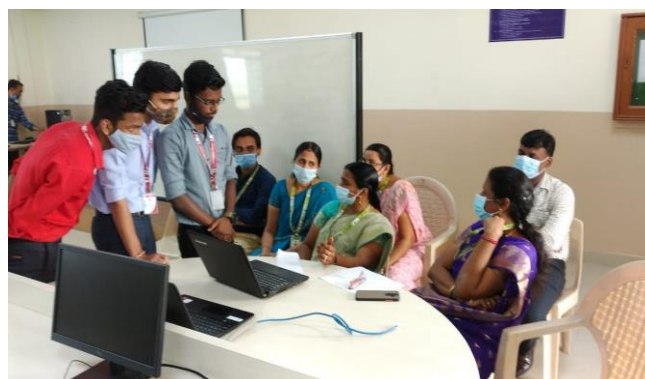
IIC CELEBRATION



Our EEE department second year student Mr.Yagneshwaran got first prize in IIC event— national energy conservation day on 14/12/2021

22/12/2021

HACKTHON



Our EEE department second year, third year and final year students has been participated in “HACKTON 2021” conducted by CSE department, S.A. Engineering college on 22/12/2021

22/12/2021

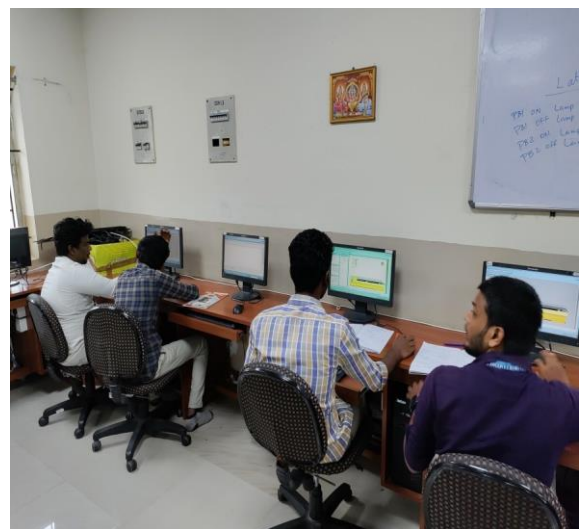
HACKTHON



Mr.Nagaraj and team (third year) got second prize in “HACKTON 2021” conducted by CSE department, S.A. Engineering college on 22/12/2021

27/12/2021

VALUE ADDED COURSE



Our third year students attended value added course in S.A. Engineering college conducted by Technocraft on 27/12/2021 to 31/12/2021. Technocraft Engineering is a global engineering service providers of embedded systems, IoT, design, and ITeS that caters to a spectrum of engineering and manufacturing verticals.

26/01/2022

GUEST LECTURE

S.A. ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Accredited by NBA & NAAC 'A' Grade Certified Institution
Poonamallee-Avadi Road, Veeraghavapuram, Thiruverkadu, Chennai - 600 077.

DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING
cordially inviting to participate the
ONLINE GUEST LECTURE
ON
SENSOR SYSTEM
FOR MEASUREMENT & INSTRUMENTATION

Hariharan VC,
Design Engineer - Electrical,
NPD Team,
MEL System and Services,
Chennai.

26th January 2022
02.00pm to 03.00pm

Targeted Participants:
All the Staff Members, 2nd Year EEE Students

Venue: Online Mode
Session Link: <https://meet.google.com/qow-kmne-xqs>

The department of EEE has organized the Online Guest Lecture on “**Sensor system for Measurement and Instrumentation**” on 26.01.2022. The head of the department, Dr.G.Rohini felicitated the chief guest Mr.V.C.Hariharan, Design Engineer—Electrical, NPO Team, MEL System And Services, Chennai. He delivered the lecture in sensor systems and measurement and instrumentation. An instrumentation system for making measurements has an input of the true value of the variable being measured and an output of the measured value. This output might be then used in a control system to control the variable to some set value.

19/04/2022–23/04/2022

VALUE ADDED COURSE



Our Second year students attended value added course in S.A. Engineering college conducted by Tech- nocraft on 19/04/2022 to 23/04/2022. Technocraft Engineering is a global engineering service providers of embedded systems, IoT, design, and ITeS that caters to a spectrum of engineering and manufacturing verticals.

19/04/2022

INTERNATIONAL SEMINAR



The department of EEE has organized International seminar on “Energy, Climate Change and I ” on 19.02.2022. The head of the department, Dr.G.Rohini felicitated the chief guest **Prof. Chetan Singh Solanki**, Professor,IIT Bombay, Brand Ambassador of Solar Energy for Madhya Pradesh, and Founder of the Energy Swaraj Foundation. He delivered the lecture in *Energy and Climate Change* is an interdisciplinary journal covering the intersection of energy and climate-related fields, spanning the physical and social sciences, with the aim of identifying real solutions and strategies.

19/04/2022

NSS ACTIVITY



The NSS Committee OF S.A. Engineering college has organized the “**FIRE SAFETY PROGRAMME**” on 19/04/2022 . Fire safety awareness means analyzing the possible risks of fire in your vicinity and taking preventive measures to ensure minimum damage and safe exit of all the person exposed to fire. Different fire safety awareness approaches are adopted at different locations.

22/04/2022 & 23/04/2022

TECHKNOWN 2022



Techknow 2022 inaugural function held at anna university on 22/04/2022 and 23/04/2022. Our EEE department 3rd year student and one staff member attended this event.

23/04/2022

PROJECT AWARD



Congratulations to III year EEE students for winning best project award for their prototype " **BOREWELL RESCUE BOT** " in the event organized by Kumari Mangrove Foundation ,Kanyakumari. The bore well accidents are now become common everywhere. Frequently we here news on child stuck in the bore well, some are being rescued and in some cases we lose to save the life of the child. The main objective of this project is to design and construct a portable robot which is cost effective, quick in action and accurate. The Bore well Rescue Robot is capable of moving inside the well and performs operations according to the user commands. The proposed model is designed to provide the child with two level of safety achieved by using robotic holding at the top and safety airbag at the bottom. This arrangement ensures that the child does not slip further deep during the rescue operation. The robot is operated by the human manually and monitor in computer .According to the observations made continuously using CCTV camera.

30/4/2022

INDUSTRIAL VISIT



The department of EEE has organized Industrial visit for 2nd year students at Core Industrial Placement Training on Factory and Process Automation - Phase 1 on 30/04/2022. The company was established in the year 2013, Macpro Automation Private Limited has been continuously excelling in manufacturing, exporting and importing of high performing Die Casting Machine, Trimming Press Machine, Assembly Station, Jet Cooling Machine and much more. Our products stand entirely different from our competitors because of the optimal strength, uniformity, dimensional accuracy and fatigue resistant. The goodwill of our company is encouraged by our technological adeptness and accurate research and development activities.