

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



TOP NEWS OF THE MONTHS

JAN2023-MAR2023

I think my most important work has been done on the borderlines between different areas of science. My first work was in geophysics, a combination of physics and geology, and then at the Bell Laboratories, it was more a combination of physics and electrical engineering. That's what I'm following more or less as time goes on. My appointment here at the university relates to physics and electrical engineering, but I have also worked in the borderline areas between physics and chemistry. I think reading widely and being interested in many different areas in science is important.

-John Bardeen

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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30/01/2023

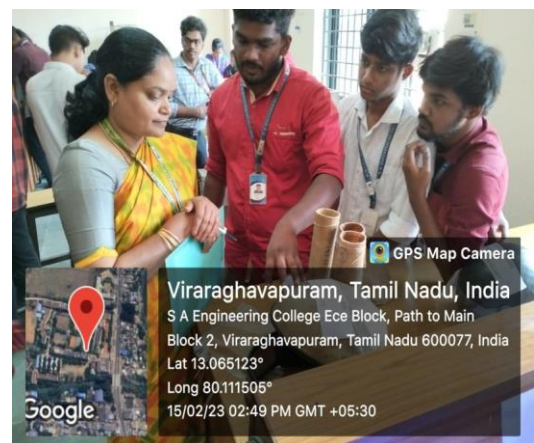
GUEST LECTURE



The department of EEE has organized the Guest Lecture On "**RENEWABLE ENERGY SOURCES** " on 30.01.2023. The head of the department, Dr.G.Rohini felicitated the chief guest Dr.J.Balamurugan, Executive Engineer,TANGEDCO . The guest delivered the lecture on Renewable energy refers to the provision of energy via renewable resources which are naturally replenished as fast as they are being used. Examples are sunlight, wind, biomass, rain, tides, waves and geothermal heat.

15/02/2023

PROJECT EXPO



Department Of Electrical And Electronics Engineering Organized "**PROJECT EXPO**" ON 15/2/2023. Project Expo provides youth with an experience in planning, preparing and displaying an article or an educational exhibit. It is an opportunity for self-expression both verbally and visually. Project Expo also provides the opportunity to share with others what has been learned in the specific project.

18/2/2023

STUDENT ACHIEVEMENT



Our EEE department Second year and third year students participated symposium conducted in vellammal Engineering college and won 2nd prize in circuit debugging on 18/2/2023.

20/2/2023

IEEE ACTIVITY



Dr.G.Rohini and Dr.S.Sendil Kumar participated in Global Leadership Connect and IEEE HTB Global Workshop with Sampathkumar Veeraraghavan on 20/02/2023.

20/02/2023-24/02/2023

VALUE ADDED COURSE



The department of EEE has organized the Value added course On "PLC" from 20.02.2023 to 24.02.2023 for 2nd year EEE. A Programmable Logic Controller, or PLC, is a ruggedized computer used for industrial automation. These controllers can automate a specific process, machine function, or even an entire production line.

28/2/2023

NATIONAL SCIENCE DAY



Department Of Electrical And Electronics Engineering Organizing “**NATIONAL SCIENCE DAY**” ON 28/2/2023. National Science Day is celebrated every year on 28 February to mark the discovery of the 'Raman Effect' by Sir C.V. Raman on 28 February 1928. It was this discovery that got Sir C.V. Raman a Nobel Prize in Physics in 1930. National Science Day is a day to celebrate the contributions of Indian scientists and to encourage scientific temper and curiosity among people.

01/3/2023 & 02/3/2023

WORKSHOP



Department OF Electrical And Electronics Engineering Organizing Two Days Workshop On "**SOLAR PLANT DESIGN AND ENERGY ESTIMATION**" Sponsored By IEEE PHOTONICS SOCIETY ON 1/2/2023 & 2/3/2023. The head of the Institution, Dr.S.Ramachandran felicitated the chief guest **Dr.S.Kavaskar, Head—PSS, KNR Engineers and Consultants, chennai** with the memento. The guest delivered the lecture on the design of this solar cells, built at roof over an area of 50 m² has a power output of 6 kWp with the installation of solar panels with a slope of 6 degrees which can produce electrical energy about 10,006.7 kWh per year. It is connected to the grid (grid connected) without battery.

01/3/2023 & 02/3/2023

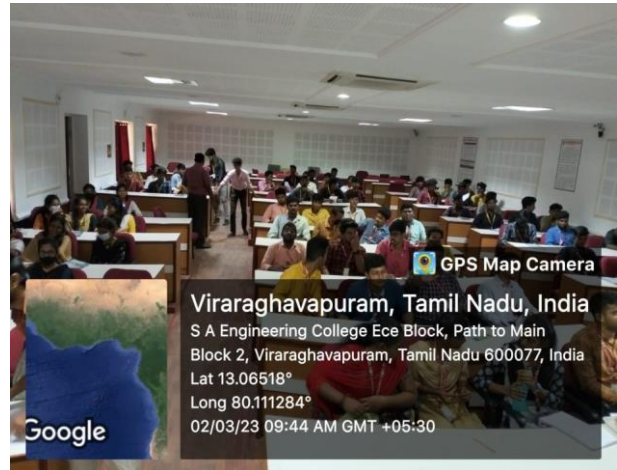
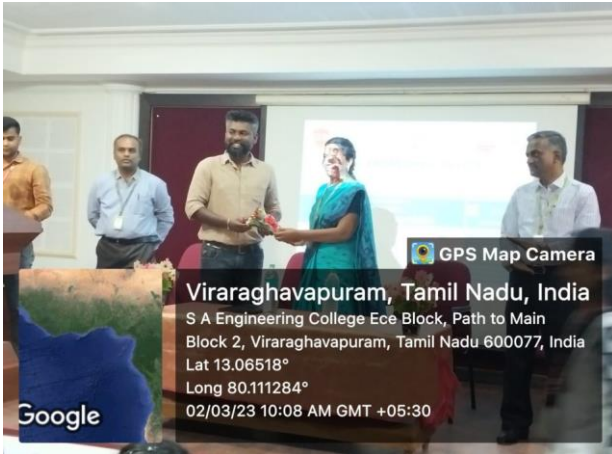
NSS UNIT



The NSS Committee OF S.A. Engineering college has organized the "**POSTAL LIFE INSURANCE AWARENESS PROGRAM**" On 1/3/2023 . The resource persons are MR. R. KRISHNAKUMAR, DEVELOPMENT OFFICERS (PLI) & MS.S.REVATHY, DEVELOPMENT HEAD address the gathering and given lecture on Postal life insurance. The postal life insurance scheme is an insurance scheme for the employees of the central/state governments, public sector undertakings, nationalised banks, government-aided educational bodies, etc. with a maximum sum assured of ₹50 Lakh.

02/3/2023

ALUMINI GUEST LECTURE



The department of EEE has organized the Alumni Guest Lecture On "**GRID CONNECTED ON SOLAR PV SYSTEM**" on 02.03.2023. The head of the department, Mr.SIVAKUMARAN SIVALINGAM, Chief Technical Officer, Envolve Energy Group, Chennai. The guest delivered the lecture on a grid-connected PV system consists of solar panels, one or several inverters, a power conditioning unit and grid connection equipment. They range from small residential and commercial rooftop systems to large utility-scale solar power stations.

10/3/2023

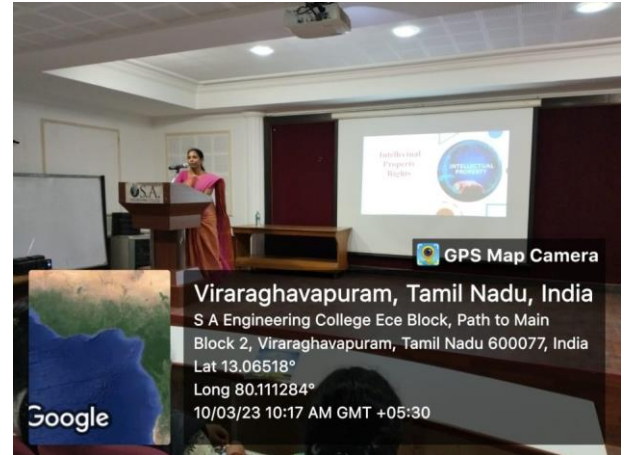
INDUSTRIAL VISIT



The department of EEE has organized Industrial visit for Industrial Visit For II YEAR and III year @ North Chennai Thermal Power Plant II on 10.03.2023. The North Chennai Thermal Power Station was commissioned in 1994 in the Thiruvallur district. It was built there due to its proximity to the Ennore Port, which also supplies Ennore Thermal Power Station. It has won various awards for productivity and reduction in auxiliary consumption. The coal necessary for the power station arrives from the Ennore Port. Recently a stator was brought to the station via the sea. In recent years due to shortage of coal in the state, coal is being imported to function the power plant.

10/3/2023

GUEST LECTURE



The department of EEE has organized the Guest Lecture On "**INTELLECTUAL PROPERTY RIGHTS(IPR)** " on 10.03.2023. The head of the department, Dr.G.Rohini felicitated the chief guest Dr.g.Geetha, Women scientist under wosc kiran IPR (DST),, Qulified patent agent, dean (Innovation) & Professor (CSE), Rajalakshmi Engineering College. The guest delivered the lecture on Intellectual property rights (IPR) refers to the legal rights given to the inventor or creator to protect his invention or creation for a certain period of time.[1] These legal rights confer an exclusive right to the inventor/creator or his assignee to fully utilize his invention/creation for a given period of time.