

SN	Contents	Page No.
1	News on Electrical Engineering	1
2	Department Events	1
3	Students' Achievement	3
4	SONA Speakers Forum	5
5	Faculty Achievement	5
6	2023 Placements	5

Common competencies

The following competency categories and areas are common to all the profiles shown here.

Category	Competency Area
Safety	<ul style="list-style-type: none"> Maintain a safe working environment Maintain a sustainable environment Respond to emergencies
Security	<ul style="list-style-type: none"> Follow security practices
Policies and procedures	<ul style="list-style-type: none"> Follow organizational policies and procedures
Information/record management	<ul style="list-style-type: none"> Complete information/record management tasks
ICT foundations	<ul style="list-style-type: none"> Use digital technology Use organization's information & communications technology systems
Personal competencies	<ul style="list-style-type: none"> Demonstrate professionalism Communicate effectively

News on Electrical Engineering

Potential Career Paths: Technician/Technologist in Electrical Engineering

Electrical engineering technicians and technologists may work independently or provide technical support and services in the design, development, testing, production, and operation of electrical equipment and systems. As they require more skills in coming future.

Category	Competency Area
Design	<ul style="list-style-type: none"> Conduct pre-design activities Support pre-design consultations Design electrical system Support design of electrical system Produce design drawings and construction documentation Produce quote for client Provide post-design support Assist with post-design support Provide construction and installation support
Construction and Installation	<ul style="list-style-type: none"> Plan installation Perform foundational electrical installation trades tasks Monitor installation of electrical equipment Install generating, distribution and service equipment Install control systems Install smart/intelligent equipment Complete installation process Conduct tests for commissioning Commission equipment and systems Assist with commissioning of power generation equipment and systems
Power generation	<ul style="list-style-type: none"> Perform power station routine operation duties
Transmission & distribution	<ul style="list-style-type: none"> Operate transmission system Balance energy in system Operate distribution system Respond to electrical emergencies
Asset maintenance	<ul style="list-style-type: none"> Prepare to maintain equipment and systems Conduct tests for maintenance Maintain generating, distribution and service equipment Assist with power-generating equipment maintenance Support nuclear power station maintenance activities in field Maintain control systems Maintain generating, distribution and service systems Maintain signalling and communication systems Repair electrical, hydraulic and mechanical equipment and systems Optimize equipment and system performance
Grid technology	<ul style="list-style-type: none"> Support development of grid technology system Support commissioning of new/upgraded SCADA software Maintain SCADA functionality Support commissioning of new/refurbished assets and new energy resources to existing SCADA system Coordinate work with SCADA field technicians Maintain efficacy of SCADA data/databases Provide support for other enterprise services (e.g. telecom) Comply with network protocols
Engineering	Provide support for engineers

Ref: Electrical Business- August 2023

Everyone is talking about the skilled labor crisis, and the electrical industry is not exempt. And while if being an "Electrical Engineering Professional" is still a popular career choice for people looking to work in the building trades, we will require a lot more of them in the years to come.

22nd Graduation Day



Graduation Day 2023, Sona College of Technology, Salem, Tamilnadu - 09/12/202.

Department Events

Workshop on E-VEHICLES



IEEE Student Branch and Department of Electrical and Electronics Engineering (EEE) in collaboration with Caliber Embedded Pvt. Ltd. Salem, conducted a comprehensive one-day Workshop with Hands-on Training on "e-Vehicles". The event took place on August 17, 2023, from

10:00 AM to 5:00 PM. Principal, Dr.S.R.R.Senthil Kumar and Dr.S.Padma Head of the department, EEE have addressed the participants. 64 undergraduate students attended the workshop and gained valuable knowledge about e-Vehicle technologies and learnt the essentials of e-Vehicle development.

Guest Lecture on Role of Electrical Engineers in Nation Builders

IEEE Student Branch and Department of Electrical and Electronics Engineering (EEE) organized Guest Lecture cum Interactive Session on "Role of Electrical Engineers in Nation Builders" by Dr.Gayathri V, Assistant Professor., Centre for clean Environment, VIT, Vellore on 04.10.2023.



Guest Lecture on an Overview of 600MW Thermal Power Plant

The guest lecture is conducted on the topic of process, operation and maintenance of 600MW Thermal Power Plant by **Mr. D. Iyappan**, Assistant Engineer/Electrical, 400KV Substation, Control & Instrumentation Division, Mettur Thermal Power Station-II on 09.09.2023 (Saturday).



The session stated the function and operation of thermal power plant based on load demand and profiles in generation and distribution side.

Guest Lecture on "Mind Power – True and False Memories"



IEEE Student Branch and Department of Electrical and Electronics Engineering (EEE) organized Guest Lecture on 04.10.2023 in "Mind Power – True and False Memories" by Dr. Babu Rangarajan, Consultant Clinical Psychologist, AP Medical Centre & Hospital, Salem, India. 2 nd & 3rd year students are benefited in this event.



IEEE Student Branch and Department of Electrical and Electronics Engineering (EEE) inaugurated a "Circuit Crafters" Club on 04.12.2023 inauguration ceremony was a resounding success! this club is more than just a place to gather; it is a community, a family, a place where we can come together to support each other, learn from each other, and grow together.



IEEE Student Branch and Department of Electrical and Electronics Engineering (EEE) celebrated the "Energy Conservation Day" on 14.12.2023 by making a promising pledge for the Energy Conservation Week; the event got underway and organized a fresher's refreshing quiz event that culminated in a group discussion.



STUDENTS ACHIEVEMENTS

Mr. Revanth P S Final year student of EEE department received TNSI -Tamilnadu Student Innovator Award with cash prize of Rs. 1 Lakh from Tamilnadu government on 01.11.2023



The inaugural ceremony of the IEEE student chapter, Sona College of Technology was held on 1st of September 2023 at 10.00am.

The chief guest Dr.Srinivasan Vathsal, life senior member of IEEE, Former director, Extramural Research & Intellectual Property Rights, DRDO delivered inaugural address and a keynote address on the topic "Sequential Data Processing for Power Systems and Aerospace Applications".

Mr. Madala P Mahit Sai of Final Year of EEE received Dr. APJ. Abdul Kalam Award for Best Engineering College Student for the year 2023 from Institute of Engineers (India) Salem Local Centre.

EEE Department Student Association & IEEE student's chapter
Organizing
Live Relay of "Chandrayaan-3" Launch
Shri Valluappa Auditorium
14.07.2023
2.00 pm

Introductory address - SONA Motor in "Chandrayaan - 3"
By
Prof. N. Kannan,
Head SonaSPEED/EEE
Sona College of Technology

De.S.Vijay Shankar, ASP
Mr. V.M. Periyasamy, AP
Sona SEED-EEE

De.M.Gopala, AP (Sr.G)/EEE
De.G.Suresh, AP/EEE
De.M.Panneerselvam, AP/EEE

De.S.Padma
Professor and HOD/EEE
Dr. R. Shivakumar
Professor and De. HOD/EEE

Dr. S.R.R.Senthil Kumar
Principal,
SCT



Mr. Madala P Mahit Sai, Mr. Madan G, Mr. Keerthi Vasan E & Ms. Nayandhara of Final Year EEE students were selected in finalist of Vishwakarma Awards -2023 & Won for best reach and presentation skills under Clean Technology Sub Theme.

சேலம் கல்லூரி மாணவர்களின் வழிவகுப்பில்
சந்திரயான் 3ப் பயணித்த ஸ்டிட்பர் மோட்டார்

இவ்வாறு விருதுகளின் வழிவகுப்பில்

15000 ரூபாய்

விருது பெற்ற மாணவர்கள்: Keerthi Vasan E, Madala P Mahit Sai, Madan G, Nayandhara K

- ### CLEAN TECHNOLOGY
- Renewable Energy Generation:
- Vacuum Energy Storage System**
Harini R, Krianan K, Sivakarthana S
Kumaraguru College of Technology
 - WRDSAGE**
Samarth Sanganeria, Krishna Chaudhary, Sameer Atraya
IIT Bombay
 - Smart Charging Station**
Vedant Deshmukhi, Ketan Adling, Sahil Ghongade, Tejas Bhoir
G H Rasoni College of Engineering and Management, Pune
- Reducing the Carbon Footprint:
- Development of Sustainable Lightweight Concrete Utilizing Palm Oil Clinker for Low Carbon Footprint in India**
Rajdeep Singh Devra, Urvi Shah
IIT Gandhinagar, Government Engineering College Gandhinagar
 - Golden Plastics**
Rajdeep Singh Devra, Urvi Shah
IIT Gandhinagar, Government Engineering College Gandhinagar
 - A/C Dust Cleaning Robot**
Keerthi Vasan E, Madala P Mahit Sai, Madan G, Nayandhara K
Sona College of Technology, Salem
 - Liquid Desiccant based Dehumidifier System**
Anika Malanhetla, Shruti Pragapati, Praveen Goguloth, Mayur Tank
IIT Bombay
 - Design Prototype of Bio-filter to Treatment of Carbon Dioxide Gas Exhausts**
Sauram Halder, Pranadip Sahoo, Nishant, Aditya Gupta
IIT Hyderabad
 - Shield Brick**
Anshu Ratan, Tarun Soni
IIT Indore

Vishwakarma awards 2023 Organized by Makers Bavan foundation along with IIT Delhi Edc Held from - 04/01/24 to 06/01/24 at IIT Delhi research centre.



Mr. Madala P Mahith Sai final year EEE student received NCC - C certificate with **"A" grade** in 2023 by the Authorization of T.N,P &A.N group from Ministry of Defence, India



Mr. Surendiran T S & Mr. Tharun kumar M, 3rd Year EEE students won 3rd prize in inter collegiate business pitch competition, Start-A-Thon'23 under Science/Technology/Engineering stream, organized by the PSG College of Art & Science on 13.09.2023.



Mr. Boopathiraja R of Final year EEE selected for **Yuva Sangam -Phase 3** exposure visit to Rajasthan -an initiative by Government of India to strengthen people -to -people connections between states.



Ms. Dhivyadharshini S of 3rd year EEE, received award for Engineering skills and creativity in the Engineers Day contest 2023 and has achieved a remarkable Top 30 ranking Imagecon Academy on 01.10.2023.



Mr. Vishnu Prasad & Mr. Dharun Rajan students of 3rd Year EEE received **"National Level Award for Best Album Song"** by Indian Film House Bengaluru on 23.09.2023.



Sowndharyan A of second Year of EEE student received Winners of Anna University Zone-8 - Third place in Anna University Inter zone competition on December 2023.



SONA SPEKARS FORUM












Ms. S. Dhanya Sree won the 1st price in Sona Speakers Forum Event. Students participated in this event on 15.09.2023.

FACULTY ACHIVEMENTS

27 Faculty members have written a total of 38 no of courses and 4 Faculty members secured gold certificates, 25 Faculty members secured silver certificates.

10 Faculty members emerged as toppers in the courses.

 MADHUBALAN S 86% Top 10% of certified candidates Basics Of Software Defined Radios	 PADMA S 75% Top 10% of certified candidates Basics Of Software Defined Radios	 ARUN KUMAR S 75% Top 10% of certified candidates Basics Of Software Defined Radios
 PORKODI M 93% Top 2% of certified candidates Introduction To Internet Of Things	 R SHIVAKUMAR 92% Top 5% of certified candidates Introduction To Internet Of Things	 M SUGUMARAN 91% Top 5% of certified candidates Introduction To Internet Of Things
 DR D PRASAD 90% Top 5% of certified candidates Introduction To Internet Of Things	 ARULMOZHIAL R 75% Top 2% of certified candidates Smart Grid: Basics To Advanced Technologies	 ARUN KUMAR S 72% Top 5% of certified candidates Smart Grid: Basics To Advanced Technologies



PURUSHOTHAM S

88%

Top 2% of certified candidates

Introduction To Machine Learning - IITKGP



DR M GOPILA

86%

Top 5% of certified candidates

Introduction To Machine Learning - IITKGP

2023 Batch Placement



Editorial Board Members

- Convener** : Dr. S. Padma, Professor & Head
- Overall** : Dr. R. Shiva Kumar, Deputy Head & Professor
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- Coordinator** : Dr. V. Shanmugasundaram, Assistant Professor
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