



# Kongunadu

College of Engineering & Technology  
[Autonomous]

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai, Accredited by NBA(CSE,ECE,EEE & MECH),  
Accredited by NAAC, Recognized by UGC with 2(f) & 12(B) and ISO 9001:2015 Certified Institution)

Namakkal - Trichy Main Road, Tholurpatti (Po), Thottiyam (Tk), Trichy (Dt) - 621 215.

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# KNCET ELECTRUM

### Common Activities

#### Department Advisory Committee Meeting

The Department Advisory Committee meeting for Even semester 2024-25 was held on 8<sup>th</sup> January 2025 through Google Meet for discussion on Curriculum & Syllabi for the IV semester in regulation R-2024 and Department Achievements in the Odd Semester 2024-2025 followed by the proposed activity for the Even semester during the Academic Year 2024-2025.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14
2020-2024 Batch	2.60	2.20	2.00	1.70	2.10	2.11	2.00	1.70	2.19	2.23	2.27	1.81	1.87	1.71
Target Level	2.50	2.25	2.00	1.80	2.10	2.10	2.00	1.70	2.19	2.23	2.27	1.81	1.87	1.71
Target Attainment Status	2.51	2.25	2.00	1.80	2.10	2.10	2.00	1.70	2.19	2.23	2.27	1.81	1.87	1.71

### Parent – Teachers Meet

• Parent – Teachers Meet was conducted for III & II year on 5<sup>th</sup> & 4<sup>th</sup> March 2025 respectively. The Trio-Fest for the IV year was conducted on 26<sup>th</sup> April 2025. The prizes has been awarded to the students and staff members for their best performance.

### Programme Conducted by the Department

#### (Workshop / Seminar/ Guest Lecture / Training / Webinar/ Others)

• 5<sup>th</sup> International Conference on Innovations in Electrical, Information and Communication Engineering (ICIEICE'25 - Hybrid Mode) was organized on 28<sup>th</sup> & 29<sup>th</sup> March 2025. The resource persons were Dr.G.Sivakumar, Senior Principal Scientist, Airport Instrumentations, Aerospace Electronics & System Division, CSIR – National Aerospace Laboratories, Bengaluru, Mr.Saigurudatta Pamulaparthivenkata, Senior Data Engineer, Village MD, USA and Dr.B.Chitti Babu, Associate Professor & Head / ECE, Indian Institute of Information Technology, Design & Manufacturing (IIITDM), Kancheepuram.

### Board of Studies Meeting

The Ninth board of studies meeting was conducted on 8<sup>th</sup> March 2025 for discussing the curriculum and syllabi for the IV semester in the regulation R-2024.

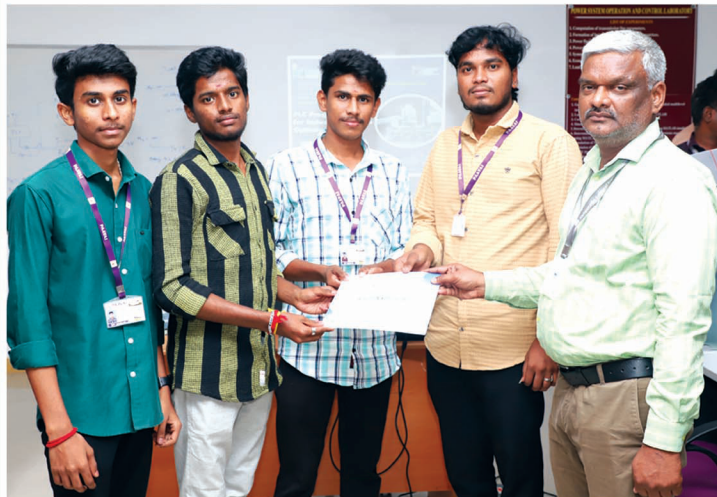


• Guest Lecture on 'Battery Management System & Charging Standards for EV' was organized on 8<sup>th</sup> March 2025. The resource person was Mr.A.Karthi, Senior Hardware Engineer, Bosch Global Software Technologies, Coimbatore.



- Guest Lecture on 'Recent Trends in IT sector' was organized on 8<sup>th</sup> March 2025. The resource person was Mr.S.Naveen (Alumnus : 2015-2019 Batch), Senior Lead Developer, Capgemini Private Limited, Chennai.

- One Day Hands on Training on 'PLC Programming for Industrial Process Optimization' was organized on 7<sup>th</sup> March 2025. The resource person was Mr.P.Tamilnesan, Assistant Professor / EEE, Kongunadu College of Engineering and Technology (Autonomous), Thottiam, Trichy.



- Guest Lecture on 'Career opportunity in Drone Technology' was organized on 22<sup>nd</sup> February 2025. The resource person was Mr.A.Anas Mohamed (Alumnus : 2020-2024 Batch), Founder & CTO, Next Gen & Efiliks, Trichy.

- 30 Hours Hackathon -ELECTROBLITZ 2K25 was organized on 21<sup>st</sup> & 22<sup>nd</sup> February 2025. The resource person was Mr.M.Parthasarathy, Associate Director, MCore Technologies Pvt Ltd, Nagasandra Post, Bangalore.



- Guest Lecture on 'Optimization of Industrial Energy Systems for a Sustainable Future' was organized on 21<sup>st</sup> February 2025. The resource person was Mr.M.Parthasarathy, Associate Director, MCore Technologies Pvt Ltd, Nagasandra Post, Bangalore.



- Seminar on 'Sustainable Solutions for Entrepreneurship Success in Electrical Engineering' was organized on 18<sup>th</sup> February 2025. The resource person was Mr.K.Saravanan, Entrepreneurship Expert, Southern Regional Office, Entrepreneurship Development Institute of India (EDII), Project Office, Salem.



- Seminar on 'AI Driven Advancements in Electrical Engineering' was organized on 25<sup>th</sup> January 2025. The resource person was Mr.Angappa Velumani, Managing Director, Spaark Technologies, Coimbatore.



- Seminar on 'Optimization of Wind turbine & its Opportunities' was organized on 9<sup>th</sup> January 2025. The resource person was Mr.C.Eelanchezhian, Manager - SCM Systems, Process & Digitalization, Hitachi Energy Technology Services Pvt Ltd, Chennai.





## ✿ Energy Club :

- Guest Lecture on “Revolutionizing Industry through Energy Audits” was organized on 26<sup>th</sup> March 2025. The resource person was Dr.S.R.Sivarasu, Managing Partner, Ram Kalam Centre for Energy Consultancy & Training, Coimbatore.



- IOCL Sponsored Awareness programme on “Green Energy and Global Warming” was organized on 25<sup>th</sup> February 2025. The resource person was Dr.T.Rajamanikandan, Head (IPR & PD), Kongunadu College of Engineering and Technology, Thottiam.



## ✿ Tamil Mandram :

- Valedictory & Motivational Speech on “வாசிப்பை நேசிப்போம்” was conducted on 24<sup>th</sup> March 2025 in Tamil Mandram at Kongunadu College of Engineering and Technology, Thottiam.



- National Youth Day Competitions (Speech, Kavithai & Drawing) was conducted on 10<sup>th</sup> January 2025 in Tamil Mandram at Kongunadu College of Engineering and Technology, Thottiam.

## ✿ Centre for Excellence – Internet of Things & Embedded Systems

- Hands on Training on “Industrial IoT for Real Time Applications” was organized on 27<sup>th</sup> March 2025. The resource person was Mr.J.Karthikeyan, Assistant Professor / EEE, Kongunadu College of Engineering and Technology, Thottiam.

- Seminar on “Leveraging IIoT for Smart Factory Transformation and Digital Success” was organized on 19<sup>th</sup> February 2025. The resource person was Mr.K.Sathis Kumar, Managing Director, Innovative Solutions, Bangaluru.



## ✿ The Institution of Engineers (India) Student's Chapter :

- Department of Electrical and Electronics Engineering in association with The Institution of Engineers (India) Student's Chapter organized Valedictory function and Guest lecture on ‘Recent Scenario in Industrial Automation and IoT 4.0’ on 22<sup>nd</sup> March 2025. The resource person was Er.T.Jeevabharathi,M.E., Electrical and Automation Manager, Senior Manager - Technology Development, Craftsman Automation Ltd, Coimbatore.



- Department of Electrical and Electronics Engineering in association with The Institution of Engineers (India) Student's Chapter organized Seminar on ‘Automated Power Generation using Distributed Control System in Thermal Power Station’ on 1<sup>st</sup> February 2025. The resource person was Er.P.R.Rajasekar, Deputy Chief Engineer (C&I), NLC Tamilnadu Power Limited, 2x500MW Thermal Power Station, Tuticorin.





### MoU Signed :

- Kongunadu College of Engineering and Technology (Autonomous) signed MoU with Innovative Solutions, Bengaluru.



- Kongunadu College of Engineering and Technology (Autonomous) signed MoU with Ram Kalam - Centre for Energy Consultancy and Training, Coimbatore.



### Staff Contribution

#### Staff as a resource person

- Mr.P.Tamilnesan, AP, Electrical and Electronics Engineering department gave a lecture in a workshop on the title 'IoT based Real Time applications using Node MCU' at Roever Engineering College, Perambalur on 6<sup>th</sup> May 2025.

- Dr.T.Sengolrajan, ASP, Electrical and Electronics Engineering department gave a lecture in a One week OLFDP on the title 'Fostering Research & Development to Drive Technological Progress and Innovation for Sustainable Growth' in the session 'Enhancing Research Productivity & Preventing Plagiarism in Scientific Research' at Roever Engineering College, Perambalur on 5<sup>th</sup> March 2025.

### NPTEL- Faculty :

- Dr.R.Shankar, Professor and Head, Electrical and Electronics Engineering completed the NPTEL course on 'Microprocessor and Microcontroller' during January 2025 to April 2025.

- Mr.R.Gopalakrishnan, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Non - conventional energy Resources' and received Elite certificate during January 2025 to April 2025.

- Mrs.S.Revathi, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Non - conventional energy Resources' during January 2025 to April 2025.

- Mr.S.Ragul, AP, Electrical and Electronics Engineering completed the NPTEL course on 'NBA accreditation and Technology and Learning in Engineering (NATE)' and received Elite certificate during January 2025 to April 2025.

### Funds Received :

- Dr.T.Rajamanikandan, AP/EEE & Head (IPR & Product Development), the students I.MohammedImthiyas, K.Gokulnath & T.Kishore of III Year EEE department has received the grant of Rs.3,60,900/- from the Entrepreneurship Development and Innovation Institute (EDII), Chennai for the project "Sustainable Zero - waste Banana Leaf - based Exam Pads and Artistic Décor" under Innovation Voucher Program on 11<sup>th</sup> June 2025.

- Dr.T.Sengolrajan, ASP/EEE, the students T.Abisheik, P.Anandan & P.Siva of IV Year EEE department has received the grant of Rs.7,500/- from the TamilNadu State Council for Science and Technology (TNSCST), Chennai for the project "Cost-Effective 3D Fabricated IoT Drip Monitoring System for Real-Time Health care Solutions" under student project scheme on 13<sup>th</sup> May 2025.

- Dr.T.Rajamanikandan, AP/EEE & Head (IPR & Product Development), the students M.Dhanush, A.Sam & P.Akilan of III Year EEE department has received the grant of Rs.2,50,000/- from the Entrepreneurship Development and Innovation Institute (EDII), Chennai for the project "Protecting Crops with Eco-Friendly, Humane Technologies to Mitigate Peacock Damage" under Innovation Voucher Program on 8<sup>th</sup> April 2025.

- Mr.P.Tamilnesan, AP/EEE, the students R.Dharun, P.Siva & P.Aadhikesvan of IV year EEE department has received the grant of Rs.10,000/- from the Naan Mudhalvan Niral Thiruvizha 2.0 (TNSDC), Chennai for the project "Thermal Imaging for Efficient Coir Moisture Removal in Solar Dryers" on 3<sup>rd</sup> March 2025.

- Mr.J.Karthikeyan, AP/EEE, the students A.Dhanasekaran, B.Srinivasan & E.Suthiksan of IV year EEE department has received the grant of Rs.10,000/- from the Naan Mudhalvan Niral Thiruvizha 2.0 (TNSDC), Chennai for the project "Smart Power Theft Detection and Alert System to Leveraging Technology for real -time Prevention" on 3<sup>rd</sup> March 2025.



- Dr.T.Rajamanikandan, AP/EEE & Head (IPR & Product Development), the students K.Manoj Kumar, G.Nickson & J.H.Aswin of III Year EEE department has received the grant of Rs.2,50,000/- from the Entrepreneurship Development and Innovation Institute (EDII), Chennai for the project "Sustainable Mosquito and Insect Protection for Cattles" under Innovation Voucher Program on 5<sup>th</sup> February 2025.

## Publication of Book / Manual

- Dr.R.Shankar & Mr.J.Karthikeyan, Circuit Theory, The Charulatha Publications, Chennai, December, 2024.
- Dr.T.Sengolrajan, Mr.K.Karthik & Mr.J.Karthikeyan, DC Machines and Transformers, The Charulatha Publications, Chennai, April, 2025.
- Dr.R.Shankar, Dr.V.Krishnakumar, Mr.R.Gopalakrishnan, Electromagnetic Theory, The Charulatha Publications, Chennai, June, 2025.
- Mrs.S.Revathi, Mr. P.Tamilnesan & Mr.P.Sridhar, Electron Devices and Circuits, The Charulatha Publications, Chennai, June, 2025.

## Publication in Journals

- R.Deebika, V.Kokila, N.Thrishna and P.Vinothini, 'Automatic Multi-Functional Water Bottle using ATmega Microcontroller', IJART, ISSN : 2395-1052, Vol.11, No.4, April 2025, pp.1130-1135, DoI : [http : // www. ijart.com / automatic-multifunctional - water - bottle - using - atmega - microcontroller - 103328](http://www.ijart.com/automatic-multifunctional-water-bottle-using-atmega-microcontroller-103328)
- Akilan.P, Dhanush.M, Jayasurya.K and Dr.T.Sengolrajan, Implementation of Solar Powered Square Shaped Vertical Axis Mirror Reflection to Manage Peacock Movements in Agricultural Areas, ISAR-International Journal of Research in Engineering Technology, Vol.10, No.1, March-April, 2025, ISSN : 2455-1341, pp.40-45, DoI: [https : // zenodo.org / records / 15297184](https://zenodo.org/records/15297184).
- Dr.T.Sengolrajan, J.H.Ashwin, K.Manojkumar and K.Monish, Organic Insect repellent Vaporizer for Cattle Protection using Microcontroller, ISAR-International Journal of Research in Engineering Technology, ISSN : 2455-1341, Vol.10, No.2, DoI : [https : //zenodo.org/ records / 15296866](https://zenodo.org/records/15296866), March - April 2025, pp. 32-38.
- T.Yuvaraj, T.Sengolrajan, Natarajan Prabakaran, K.R.Devabalaji, AkieUeshara and Tomonobu Senjyu, Enhancing Smart Microgrid Resilience and Virtual Power Plant Profitability through Hybrid IGWO-PSO Optimization with a Three-Phase Bidding Strategy, IEEE Access, published in online in April 2025, ISSN: 2169-3536, DoI: 10.1109 / ACCESS. 2025. 3565460, I.F:3.4, SCIE.
- Revathi Subramaniam, Androse Joseph Sheela and Abdullah Alwabli, Enhanced Cybersecurity and Cyber-attack detection in Smart DC Micro Grids using Blockchain Technology and SVM Technique, Ain Shams Engineering Journal, Elsevier, ISSN.No : 2090-4479, Vol.16, April 2025, IF:6, SCIE, DoI : [https: //doi.org / 10.1016 / j.asej.2025.103400](https://doi.org/10.1016/j.asej.2025.103400).

- Ratchagaraja Dhairiyasamy, Shankar Rajukkannu, Deekshant Varshney, Subhav Singh, Deepika Gabriel and Elangovan Murugesan, Examining the Effects of Neem Leaf Extract Additive on Biodiesel Blends for Improved Fuel Efficiency and Engine Performance in a Low Heat Rejection Engine, Journal of Environmental Nanotechnology, ISSN: 2279-0748, Vol.14, No.1, March 2025, pp.1-15, I.F:0.5, Scopus, DoI: [https: //doi.org / 10.13074 / jent. 2025. 03. 2511294](https://doi.org/10.13074/jent.2025.03.2511294).

- K.Karthik, P.Kishorekumar, S.Hariharan and V.Pradeep, Automated Conveyor Belt Printing System for Small Scale Industrial Commodities using PLC, International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN : 254-2137, pp.792-799, DoI:10.47392 / IRJAEH. 2025.0111.

- Sridhar.P, Manoj.A,Valan Joshi.J and Meiyarasu.S, AI-Driven Autonomous Hygiene Solution for Public Toilet, International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN:254-2137, pp.674-681, DoI:10.47392 / IRJAEH.2025. 0094.

- R.Gopalakrishnan, V.HeemaChandran, T.Shomesh and M.Kamalesh, Design and Performance Analysis of a Hybrid Inverter for Solar and Wind Energy System, International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN: 2584-2137, pp.555-562, DoI:10.47392 / IRJAEH. 2025.0078.

- S.Ragul, V.Dhayalan, V.HariGokul and M.Leiyash, An Investigations into Combined Flow and Pressure Control for Industrial Pumps using adaptive MPC, International Journal of Engineering Development and Research, Vol.13, No.1, March 2025, ISSN:2321-9939, pp.144-151. DoI:10.1729/Journal. 44196.

- Dr.T.Rajamanikandan, R.Arun, L.Devakumar and R.Sridhar, Advanced Automation Thermal Treatment System for Banana Suckers, International Journal for Science and Advance Research in Technology, Vol.11, No.2, February 2025, ISSN.No:2395-1052, pp.145-151, DoI:10.5281 / Zenodo. 15044492.

- Dr.P.Arul, S.Akash, S.Parthib Ram and M.Yuvan Adhithya, Development of a Multidirectional Motorized Cart, International Journal of Scientific Research and Engineering Development, Vol.8, No.1, Jan-Feb 2025, pp.1366-1371, DoI: 10.5281/ Zenodo.15152222.

- Dr.R.Shankar, T.Anushiya, C.Keerthana Shivani and K.Srinitha, Integrated Health Care Solution for Real Time Monitoring and AI-Assist Diagnosis for Senior Citizens, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN: 2348-4098, pp.1-9, February 2025, DOI: 10.61463/ijset.vol.13.issue1.143.

- K.Karthik, R.Dhanush, V.Thirumalai and P.Dhayanithi, Development and Fabrication of Automatic Chakali Making Machine using PLC, International Journal of Scientific Research & Engineering Trends, Vol.11, No.1, Jan-Feb, 2025, ISSN: 2395-566X, pp.811-817, DOI: 10.61137 / ijsret. vol.11. issue1.169.



- S.Revathi, R.Brundha, M.Priyadharshini and V.Vijika, Design of Smart Agriculture Wearable for Enhanced Productivity, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN: 2348-4098, pp.1-8, February 2025, DOI:10.61463/ijset. vol.13. issue1.144.

- S.Ragul, N.Dharanidharan, K.Mouleeswaran and A.Santhosh Kumar, AI-ML Powered Smart Crop Monitoring System for Preventing Peacock Movements in Agriculture, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN:2348-4098, pp.1-8, March 2025, DOI: 10.61463/ijset. vol.13. issue1.142.

- C.Gowrishankar, S.Girieshwaran, M.Keerthivarman and C.Naveen, Optimization of Loading and Storage Mechanism for Enhanced Material Handling in the Motorized Cart, International Journal of scientific Research & Engineering Trends, Vol.11, No.1, February 2025, ISSN: 2395-566X, pp.804-810, DOI: 10.61137/ijset. vol.11. issue1.168.

- J.Karthikeyan, A.Dhanasekaran, B.Srinivasan, and E.Suthiksan, Smart power theft detection and alert system to leveraging technology for real-time prevention, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISBN. No: 2348-4098, pp.1-9, February 2025, DOI:/10.5281/zenodo.15068834.

- Dr.T.Sengolrajan, V.Dharshini, M.Swathi and A.Thabuna, Design and Development of Tablet Making Machine using IOT, International Journal of scientific Research & Engineering Trends, ISSN:2395-566X, Vol.11, No.1, February 2025, pp.786-791, Dol: 10.61137/ijset. vol.11. issue 1.165.

- Dr.T.Sengolrajan, T.Abisheik, P.Anandan and N.Gowtham, Development of one app and one village for Connecting Rural Community in a single Platform, International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.13, No.1, pp.1-8, Dol: 10.61463/ijset. vol.13. issue1.133.

- P.Tamilnesan, P.Aadhikesavan, R.Dharun and P.Siva, Enhancing the Efficiency of Solar Dryer using Thermal Imaging Technique, International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.13, No.1, pp.1-9, Dol: 10.61463/ijset. vol.13. issue1.140.

- Ragul.S, Raghavendran.P.S and Ramesh.S, Optimization off Bidirectional Converters and BLDC Motor Control in Microgrids using Priority adaptive Particle Optimization Driven Boosting Model, Journal of Electrical Systems, ISSN: 1112-5209, Vol.20, pp. 2201-2219, February 2025, <https://journal.esrgroups.org / jes / article / view / 7741 / 5295>, Scopus.

- Shankar Rajukkannu, Wasurat Bunpheng, Ratchagaraja Dhairiyasamy and V.Gopinath, Efficiency improvement in silicon and perovskite solar cells through nanofluid cooling using citrate and PVP stabilized silver nanoparticles, Scientific Reports, ISSN: 2045-2322, Vol.15, Article. No.833, January 2025, Dol: <https://doi.org / 10.1038 / s41598-025-85374-8>, SCIE.

- Thavamani Jeyaraj, Arul Ponnusamy and Dhamodhan Selvaraj, Hybrid Renewable Energy Systems Stability Analysis through future advancement Technique: A review, Applied Energy, Elsevier, ISSN: 0306-2619, Vol.383, pp.1-28, January 2025, Dol: <https://doi.org / 10.1016 / j.apenergy.2025.125355>, SCIE.

## Publication in Conference

- Palraj Karuppasamy, Vigilson Prem Monickaraj, Revathi Subramaniam, Darshankumar.J, Mathankumar.M, Manjunathan Alagarsamy, 'Deep Learning Advancing Image Classification-Neural Network Design and Performance Analysis' Third International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA 2025), held at Kumaraguru College of Technology, Coimbatore on 4<sup>th</sup> - 5<sup>th</sup> April 2025.

- Deebika.R, Aarthi.R, Vijayadharshini.R and Sathiya Priya.M, 'Design and Implementation of PLC Controlled Digital Liquid Filling Machine with Manual and Automatic Modes', ANRF Sponsored International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 (INSDAM 2025) held at Kalasalingam academy of Research and Education, Krishnankoil on 27<sup>th</sup> & 28<sup>th</sup> March 2025.

- Dr.Rajamanikandan.T, Kavya.S and Sowmiya.M, 'Design and Fabrication of Electrolyte from Plantain', ANRF Sponsored International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 (INSDAM 2025) held at Kalasalingam academy of Research and Education, Krishnankoil on 27<sup>th</sup> & 28<sup>th</sup> March 2025.

- Karthikeyan.J, Dinesh Murugan.P, Santhosh Kumar.P and Karthik.S, 'Design and Development of an Automated Insects Prevention System for Cattle', ANRF Sponsored International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 (INSDAM 2025) held at Kalasalingam academy of Research and Education, Krishnankoil on 27<sup>th</sup> & 28<sup>th</sup> March 2025.

- Deebika.R, Mahalakshmi.N, Subashini.R and Dharshana.R, 'Development of an Electro-Magnetic Induction Sealing system for Packing Application using PLC', 6<sup>th</sup> International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) held at Velammal Institute of Technology, Chennai on 21<sup>st</sup> & 22<sup>nd</sup> March, 2025.

- Revathi.S, Akshaya.N and Gayathiri.S, 'Thermal Controller-based Electric Autoclave System for Medical Equipment Sterilization', 6<sup>th</sup> International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) held at Velammal Institute of Technology, Chennai on 21<sup>st</sup> & 22<sup>nd</sup> March, 2025.

- Tamilnesan.P, Praveen.B, Srikanth.M and Sudhakar.S, 'Integration of Smart Obstacle Detection and Navigation System for Optimized Automated Cart Performance', International Conference on Engineering, Science and Management (ICESM) 2025 held at Guru Gobind Singh College of Engineering & Research Centre, Nashik, Maharashtra on 11<sup>th</sup> & 12<sup>th</sup> March 2025.

- Karthik K, Kishorekumar P, Hariharan S and Pradeep V, 'Automated Printing on Small Commodities using Conveyor Belt Technology', International Conference on Engineering, Science and Management (ICESM) 2025 held at Guru Gobind Singh College of Engineering & Research Centre, Nashik, Maharashtra on 11<sup>th</sup> & 12<sup>th</sup> March 2025.



- Mohanraj.K and Mahilmithran.R.S, 'Development of Special Purpose Machine using PLC', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

- Gopalakrishnan.R, Shomesh.T, Kamalesh.M, Heema Chandran.V, 'Design and Performance Analysis of a Hybrid Inverter for Solar and Wind Energy System', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

- Sridhar P, Manoj A, Valan Joshi J and Meiyarasu S, 'AI-Driven Autonomous Hygiene Solution for Public Toilet', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

- Gopalakrishnan R, Aneesh S, Logeshkumar S and Chandra Mouli K, 'Modular Industrial Labeling and Stamping System with Conveyor Integration using PLC Controller', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

- Selvarathi C, SharmilaS, Manikandan T, Sengolrajan Thanasingh, Madhu Mitha G and Pandiaraja P 'Cardiac Vascular disease prediction using stacked ensemble algorithm for Type-2 Diabetes Mellitus' IEEE proceedings of 4<sup>th</sup> International Conference on Sentiment analysis and Deep Learning, ICSAL 2025, held at Far Western University, Nepal on 18<sup>th</sup> & 20<sup>th</sup> February 2025.

- Subramaniam G.S, Kumar Muthuvel.S, Bhoopathi.M, Sridhar.P, Dinesh.P.M and Narayan.P, 'Design and Performance Evaluation of Triangle Aero Array Antennas for Next-Generation 5G Wireless Networks' IEEE proceedings of 4<sup>th</sup> International Conference on Sentiment analysis and Deep Learning, ICSAL 2025, held at Far Western University, Nepal on 18<sup>th</sup> & 20<sup>th</sup> February 2025.

- Sarathkumar.D, Murugesan Manivel.J.B, Jayakumar.T, Ragul.S and Sabarish Ponnusamy, 'Impact of Electric Vehicle Integration on Power Grids : A Comprehensive Review' IEEE proceedings of 2025 International Students Conference on Electrical, Electronics and Computer Science (SCEECS), held at Bhopal, India on 18<sup>th</sup> & 19<sup>th</sup> January 2025.

- Immanuvel Bright.E, Dheepika.S.A, Sridhar.N, Kavin.K .S, Deebika.R and Sengottaian.S, 'Hybrid Power Conversion System using PWM Rectification and Advanced Bidirectional DC-DC Control for Efficient Load Applications' IEEE Proceedings of 14<sup>th</sup> International Conference on Communication Systems and Networks Technologies (CSNT), held at Bhopal, India on 7<sup>th</sup> & 9<sup>th</sup> January 2025.

## Seminar/ Workshop / Webinar Attended

- Mr.C.Gowrishankar, AP of Electrical and Electronics Engineering department attended Online workshop on 'Industrial Applications of Artificial Intelligence' held by Vellore Institute of Technology, Vellore and Sheffield Hallam University, UK on 13<sup>th</sup> March 2025.

- Mr.C.Gowrishankar, AP of Electrical and Electronics Engineering department attended Online workshop on 'Artificial Intelligence & Machine Learning' held by ECL LearnixEd Tech Private Ltd, Coimbatore on 1<sup>st</sup> March 2025.

- Mr.P.Tamilnesan, AP of Electrical and Electronics Engineering department attended All India Seminar on 'Advances in Batteries and Charging Infrastructure for EV (ABC-EV)' held at K.Ramakrishnan College of Engineering, Samayapuram on 7<sup>th</sup> February 2025.

- Mr.P.Sridhar, AP & Mrs.S.Revathi, AP of Electrical and Electronics Engineering department attended CSIR sponsored two days National Level Seminar on 'Challenges & Opportunities in Charging Stations for Electric Vehicle Adoption' held at M.Kumarasamy College of Engineering, Karur on 30<sup>th</sup> & 31<sup>st</sup> January 2025.

## FDP Attended

**Dr.R.Shankar, Professor & Head, Electrical and Electronics Engineering department attended**

- FDP on "Methods of Research and Publication Ethics" organized by KNCET in association with NITTR, Chandigarh from 17<sup>th</sup> to 21<sup>st</sup> February 2025.

**Dr.P.Arul, Professor & CoE, Electrical and Electronics Engineering department attended**

- FDP on "NBA accreditation & Outcome - Based Learning for Transformative Education" organized by Velammal College of Engineering and Technology, Madurai from 17<sup>th</sup> to 21<sup>st</sup> March 2025.

**Dr.T.Sengolrajan, Associate Professor, Electrical and Electronics Engineering department attended**

- FDP on "Science, Technology and Innovation for sustainable Development" organized by KNCET in association with NITTR, Chandigarh, Madurai from 27<sup>th</sup> to 31<sup>st</sup> January 2025.

- FDP on "Intellectual Property UTSAV" organized by AICTE (All India Council for Technical Education) and MIC (Ministry of Education's Innovation Cell) from 21<sup>st</sup> to 26<sup>th</sup> April 2025.

**Mr.K.Karthik, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on "AI and Cloud based Tools for Research" organized by KNCET in association with NITTR, Chandigarh, Madurai from 24<sup>th</sup> to 28<sup>th</sup> March 2025.

**Mr.R.Gopalakrishnan, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on "Science, Technology and Innovation for sustainable Development" organized by KNCET in association with NITTR, Chandigarh, Madurai from 27<sup>th</sup> to 31<sup>st</sup> January 2025.



**Mr.S.Ragul, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on “AI and Cloud based Tools for Research” organized by KNCET in association with NITTR, Chandigarh, Madurai from 24<sup>th</sup> to 28<sup>th</sup> March 2025.

- ATAL FDP on “The Future of Smart Mobility : Academy Integrating AI and IOT in Electric Vehicle Ecosystems” organized by SreeSakthi Engineering College, Coimbatore from 27<sup>th</sup> January to 1<sup>st</sup> February 2025.

- ATAL FDP on “Revolutionizing agriculture through AI Models, Practices and Interventions” organized by M.Kumarasamy College of Engineering, Karur from 6<sup>th</sup> to 11<sup>th</sup> January 2025.

- NPTEL FDP on “NBA Accreditation and Teaching and Learning in Engineering (NATE)” organized by NPTEL through MOOCs mode from January to April 2025 (12 Weeks).

**Mrs.R.Deebika, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on “Methods of Research and Publication Ethics” organized by KNCET in association with NITTR, Chandigarh from 17<sup>th</sup> to 21<sup>st</sup> February 2025.

- FDP on “Intellectual Property UTSAV” organized by AICTE (All India Council for Technical Education) and MIC (Ministry of Education's Innovation Cell) from 21<sup>st</sup> to 26<sup>th</sup> April 2025.

**Mrs.S.Revathi, Assistant Professor, Electrical and Electronics Engineering department attended**

- NPTEL FDP on “Non-Conventional Energy Resources” organized by NPTEL from January to April 2025 (12 Weeks).

**Mr.P.Tamilnesan, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on “Emerging Material Innovations for Industrial Applications” organized by Rathinam Technical Campus, Coimbatore from 17<sup>th</sup> to 22<sup>nd</sup> February 2025.

- FDP on “Science, Technology and Innovation for sustainable Development” organized by KNCET in association with NITTR, Chandigarh, Madurai from 27<sup>th</sup> to 31<sup>st</sup> January 2025.

**Mr.J.Karthikeyan, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on “AI Tools” organized by Builders Engineering College, Tirupur from 17<sup>th</sup> to 21<sup>st</sup> February 2025.

**Mr.C.Gowrishankar, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on “Revolutionizing Electric Vehicle Powertrains : The Role of Wide-Band gap Semiconductors in Overcoming Challenges and Shaping Future Trends” organized by Dr.Mahalingam College of Engineering and Technology, Coimbatore from 17<sup>th</sup> to 22<sup>nd</sup> February 2025.

**Mr.P.Sridhar, Assistant Professor, Electrical and Electronics Engineering department attended**

- FDP on “Teacher Student Mentoring : A Key to Unlocking Academic Excellence ethics” organized by JP College of Arts and Science, Tenkasi from 21<sup>st</sup> to 25<sup>th</sup> April 2025.

## Students Contribution

### NPTEL Completed

- 13 students from II year EEE department completed NPTEL course on ‘Introduction to Internet of Things’ during January 2025 to April 2025.

- 4 students from III year EEE department completed NPTEL course on ‘Introduction to industry 4.0 and industrial internet of things’ during January 2025 to April 2025.

- 1 student from III year EEE department completed NPTEL course on ‘Biomass Conversion and Biorefinery’ during January 2025 to April 2025.

### IIT Spoken Tutorial Completed

- 64 students from Final Year EEE department completed IIT Spoken Tutorial on “CSS”.

- 61 students from Third Year EEE department completed IIT Spoken Tutorial on “JAVA”.

- 64 students from Second Year EEE department completed IIT Spoken Tutorial on “ARDUNIO”

## Prize Won

- A.Dhanasekaran and B.Srinivasan of IV year Electrical and Electronics Engineering department won First Prize in “National Level Hackathon Event - HACKNOVUS - 2K25” held by K.Ramakrishnan College of Engineering, Trichy on 16<sup>th</sup> April 2025.

- C.Kokila and N.Thrishna of III year Electrical and Electronics Engineering department won Second Prize in “Paper Presentation - Power Station Management Through AI” at National Level Technical Symposium, Bandrigai Fest 2025 held by Nandha College of Technology, Erode on 5<sup>th</sup> April 2025.

- C.Kokilavani of III year Electrical and Electronics Engineering department won Second Prize in “Poster Presentation” at National Level Technical Symposium - AGRO FORUM 2K25 held by Dhirajlal Gandhi College of Technology, Salem on 29<sup>th</sup> March 2025.

- M.Vigneshwaran, S.Joel and R.Kishore of III year Electrical and Electronics Engineering department won First Prize in “Poster Presentation” at National Level Technical Symposium - Texperia 2025 held by SNS College of Technology, Coimbatore on 19<sup>th</sup> & 20<sup>th</sup> March 2025.

- C.Kokilavani of III year and C.Udhayadharshini of II year Electrical and Electronics Engineering department won Second Prize in “Poster Presentation” at National Level Technical Symposium - Texperia 2025 held by SNS College of Technology, Coimbatore on 19<sup>th</sup> & 20<sup>th</sup> March 2025.

- M.Vigneshwaran, S.Joel and R.Kishore of III year Electrical and Electronics Engineering department won Second Prize in “Project Presentation” at National Level Technical Symposium - Texperia 2025 held by SNS College of Technology, Coimbatore on 19<sup>th</sup> & 20<sup>th</sup> March 2025.



- C.Kokilavani of III year and C.Udhayadharshini of II year Electrical and Electronics Engineering department won Second Prize in “Project Presentation” at National Level Technical Symposium - Texperia 2025 held by SNS College of Technology, Coimbatore on 19<sup>th</sup> & 20<sup>th</sup> March 2025.

- R.Arunkumar of III year Electrical and Electronics Engineering department won Third Prize in “Paper Presentation - IoT Enabled Wireless Electronics Notice Board Using Raspberry Pi” at National Level Technical Symposium - YUKTI 2K25 held by AVS Engineering College, Salem on 17<sup>th</sup> March 2025.

- S.Pooja of III year Electrical and Electronics Engineering department won First Prize in “Paper Presentation - Sustainable EV Battery Waste Management and Recycling” at National Level Technical Symposium and Project Contest - AMPERE2K25 held by Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.

- P.Vinothini, S.Maheshwari and V.Kokila of III year Electrical and Electronics Engineering department won Second Prize in “Poster Presentation” at National Level Technical Symposium and Project Contest - AMPERE2K25 held by Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.

- P.Vinothini, S.Maheshwari and V.Kokila of III year Electrical and Electronics Engineering department won First Prize in “Connection” at National Level Technical Symposium and Project Contest - AMPERE2K25 held by Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.

- M.Dhanush, U.Karthikeyan, R.Hariharan, K.Manojkumar and A.Sam of III year Electrical and Electronics Engineering department won Third Prize in “Connection” at Hackathon-Sky Forge 2025 held by Kalasalingam Academy of Research and Education, Virudhunagar on 13<sup>th</sup> & 14<sup>th</sup> March 2025.

- S.Maheshwari of III year Electrical and Electronics Engineering department won Third Prize in “MEME Creation” at National Level Technical Symposium - METFEST 2K25 held by Sakthi Polytechnic College, Erode on 6<sup>th</sup> & 7<sup>th</sup> March 2025.

- B.Hariprasath of II year Electrical and Electronics Engineering department won First Prize in “ANIME HUNT” at National Level Technical Symposium - EDISION 2025 held by Sona College of Technology, Salem on 28<sup>th</sup> February 2025.

- M.Harish and R.Karthik Raja of III year Electrical and Electronics Engineering department won Second Prize in “CONSTRUCTIX” at National Level Technical Symposium - CASTILO'25 held by Annapoorana Engineering College, Salem on 27<sup>th</sup> February 2025.

- M.Harish and R.Karthik Raja of III year Electrical and Electronics Engineering department won Second Prize in “Poster Presentation” at National Level Technical Symposium - CASTILO'25 held by Annapoorana Engineering College, Salem on 27<sup>th</sup> February 2025.

- J.Madhuvarshini of II year Electrical and Electronics Engineering department won Second Prize in “Truth or Trap” at National Level Technical Symposium - ARIVOLI - 2K25 held by Knowledge Institute of Technology, Salem on 27<sup>th</sup> February 2025.

- G.R.Gokulavasan of II year Electrical and Electronics Engineering department won First Prize in “Hackathon” at ELECTROBLITZ 2K25 held by Kongunadu College of Engineering and Technology, Trichy on 21<sup>st</sup> & 22<sup>nd</sup> February 2025.

- M.Harish of III year Electrical and Electronics Engineering department won First Prize in “Poster Presentation” at National Level Technical Symposium - Synergy-25 held by Bannari Amman Institute of Technology, Erode on 1<sup>st</sup> February 2025.

## Paper Presentation

1. C.Kokila & N.Thrishna of III Year EEE Department presented a paper on ‘Power Station Management Through AI’ in a National Level Technical Symposium - Bandrigai Fest 2025 at Nandha College of Technology, Erode on 5<sup>th</sup> April 2025.

2. P.Vinothini & S.Maheshwari of III Year EEE Department presented a paper on ‘Advanced Energy Monitoring System’ in a National Level Technical Symposium - CYBERTHON 2025 at Kumaraguru School of Innovation, Coimbatore on 29<sup>th</sup> March 2025.

3. C.Kokilavani of III Year EEE Department presented a paper on ‘Smart Agricultural techniques and machinery control’ in a National Level Technical Symposium - AGRO FORUM 2K25 at Dhirajlal Gandhi College of Technology, Salem on 29<sup>th</sup> March 2025.

4. G.Kanishka & S.Jeenika of II Year EEE Department presented a paper on ‘Digital Citizenship’ in a National Level Technical Symposium - Jfinagles 2025 at JCT College of Engineering and Technology, Coimbatore on 21<sup>st</sup> & 22<sup>nd</sup> March 2025.

5. J.Srimathi & S.Monisha of II Year EEE Department presented a paper on ‘Artificial Intelligence’ in a National Level Technical Symposium - Jfinagles 2025 at JCT College of Engineering and Technology, Coimbatore on 21<sup>st</sup> & 22<sup>nd</sup> March 2025.

6. S.K.Dharshana & S.Kishaa of III Year EEE Department presented a paper on ‘Driverless Autonomous Car’ in a National Symposium - SAKURA 25 at Hindusthan Institute of Technology, Coimbatore on 21<sup>st</sup> March 2025.

7. M.Thirukumaran & J.Filbert Joe Wiston of II Year EEE Department presented a paper on ‘Power Electronics application in Power System’ in a National Symposium - SAKURA 25 at Hindusthan Institute of Technology, Coimbatore on 21<sup>st</sup> March 2025.

8. B.Eswar & P.Gokulnath of II Year EEE Department presented a paper on ‘Autonomous Vehicle Technology’ in a National Symposium - SAKURA 25 at Hindusthan Institute of Technology, Coimbatore on 21<sup>st</sup> March 2025.

9. P.S.Hariharan & A.Sathish of II Year EEE Department presented a paper on ‘Smart Agriculture Techniques’ in a National Symposium - SAKURA 25 at Hindusthan Institute of Technology, Coimbatore on 21<sup>st</sup> March 2025.



10. A.Dinoshiya & R.Nithisha of III Year EEE Department presented a paper on 'Quality Control Using AI' in a National Level Students Technical Symposium - Chemflux 12.0 at SRM Institute of Science and Technology, Chennai on 20<sup>th</sup> & 21<sup>st</sup> March 2025.
11. S.Adhithya & S.Kabilan of II Year EEE Department presented a paper on 'Humanoid Robotics' in a National Level Students Technical Symposium- YUKTI 2K25 at Selvam College of Technology, Namakkal on 20<sup>th</sup> March 2025.
12. R.Ranjith & S.Harikrishnan of II Year EEE Department presented a paper on 'Light Vision Technology' in a National Level Students Technical Symposium- YUKTI 2K25 at Selvam College of Technology, Namakkal on 20<sup>th</sup> March 2025.
13. S.Akash of II Year EEE Department presented a paper on 'Internet of Things' in a National Level Students Technical Symposium- YUKTI 2K25 at Selvam College of Technology, Namakkal on 20<sup>th</sup> March 2025.
14. V.Sachin & M.Poovarasana of II Year EEE Department presented a paper on 'Drone Technology' in a National Level Students Technical Symposium- YUKTI 2K25 at Selvam College of Technology, Namakkal on 20<sup>th</sup> March 2025.
15. M.Vigneshwaran, S.Joel & R.Kishore of III Year EEE Department presented a paper on 'Portable Smart Watch based RC Nano Car' in a National Level Students Technical Symposium- Texperia 2025 at SNS College of Technology, Coimbatore on 19<sup>th</sup> & 20<sup>th</sup> March 2025.
16. C.Kokilavani of III Year & C.Udhayadharshini of II Year EEE Department presented a paper on 'Home Automation using Google Assistant' in a National Level Students Technical Symposium- Texperia 2025 at SNS College of Technology, Coimbatore on 19<sup>th</sup> & 20<sup>th</sup> March 2025.
17. A.Bharath, R.Karthickraja & K.Jayasurya of III Year EEE Department presented a paper on 'Magneto hydrodynamic Power Generation Technology' in a National Level Students Technical Symposium- YUKTI 2K25 at AVS Engineering College, Salem on 17<sup>th</sup> March 2025.
18. G.Naveenkumar & C.Sudhanaghash of III Year EEE Department presented a paper on 'Grid Connected PV Systems' in a National Level Students Technical Symposium - YUKTI 2K25 at AVS Engineering College, Salem on 17<sup>th</sup> March 2025.
19. R.Arunkumar of III Year EEE Department presented a paper on 'IoT Enabled Wireless Electronics Notice Board Using Raspberry Pi' in a National Level Students Technical Symposium- YUKTI 2K25 at AVS Engineering College, Salem on 17<sup>th</sup> March 2025.
20. S.Pooja of III Year EEE Department presented a paper on 'Sustainable EV Battery Waste Management and Recycling' in a National Level Technical Symposium and Project Contest - AMPERE2K25 at Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.
21. P.Vinothini & S.Maheshwari of III Year EEE Department presented a paper on 'Hybrid Power Generation' in a National Level Technical Symposium and Project Contest - AMPERE2K25 at Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.
22. K.Sona & S.Harshini of III Year EEE Department presented a paper on 'Recent technology in IoT' in a National Level Technical Symposium and Project Contest - AMPERE2K25 at Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.
23. V.Kokila of III Year EEE Department presented a paper on 'Power Theft Detection' in a National Level Technical Symposium and Project Contest - AMPERE2K25 at Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.
24. R.Sanjay, M.Saravanan, P.Arun Kumar & A.Hariharan of II Year EEE Department presented a paper on 'Automatic Meter Reading' in a National Level Technical Symposium and Project Contest - AMPERE2K25 at Selvam College of Technology, Namakkal on 14<sup>th</sup> March 2025.
25. I.Athithya, C.Deebakkumar & V.Manoj of II Year EEE Department presented a paper on 'Conversion of Air into Water' in a National Level Technical Symposium - MINNAL'25 at SIMATS Engineering, Chennai on 12<sup>th</sup> to 14<sup>th</sup> March 2025.
26. D.Anbarasu, S.Athavan & S.Sathasivam of II Year EEE Department presented a paper on '5G Network Revolution' in a National Level Technical Symposium - MINNAL'25 at SIMATS Engineering, Chennai on 12<sup>th</sup> to 14<sup>th</sup> March 2025.
27. G.R.Gokulavasan of II Year EEE Department presented a paper on 'Battery Management System' in a National Level Technical Symposium - MINNAL'25 at SIMATS Engineering, Chennai on 12<sup>th</sup> to 14<sup>th</sup> March 2025.
28. S.Yuvabalan & S.A.Dharanidharan of II Year EEE Department presented a paper on 'AI in Electric Vehicles' in a National Level Technical Symposium - TECHNIVIBEZ'25 at Muthayammal College of Engineering, Namakkal on 11<sup>th</sup> March 2025.
29. M.Vignesh of II Year EEE Department presented a paper in a National Level Technical Symposium - TECHNIVIBEZ'25 at Muthayammal College of Engineering, Namakkal on 11<sup>th</sup> March 2025.
30. A.Rithik & S.Vengadeshwaran of II Year EEE Department presented a paper on 'Augmented Reality and Virtual Reality' in a National Level Technical Symposium - TECHNIVIBEZ'25 at Muthayammal College of Engineering, Namakkal on 11<sup>th</sup> March 2025.
31. A.Selvaganesh & S.Sudhakar of II Year EEE Department presented a paper on 'Renewable Resources' in a National Level Technical Symposium - TECHNIVIBEZ'25 at Muthayammal College of Engineering, Namakkal on 11<sup>th</sup> March 2025.
32. S.Jeenika & G.Kanishka of II Year EEE Department presented a paper on 'Wavelet Transforms' in a National Level Technical Symposium - NEXUS'25 at Kongu Engineering College, Erode on 10<sup>th</sup> March 2025.
33. S.Monisha & J.Srimathi of II Year EEE Department presented a paper on 'Pumped Hydroelectric Energy Storage' in a National Level Technical Symposium - NEXUS'25 at Kongu Engineering College, Erode on 10<sup>th</sup> March 2025.



34. S.Divya, P.Kesavarthini & M.Radha of II Year EEE Department presented a paper on 'Exploring the Power of Generative AI' in a National Level Technical Symposium - ASTRANOVA 2K25 at Coimbatore Institute of Technology, Coimbatore on 1<sup>st</sup> March 2025.

35. C.Kokilavani of II Year EEE Department presented a paper on 'Radial Feeder Protection' in an Intercollegiate Technical and Cultural Fest at Kalaignarkarunanidhi Institute of Technology, Coimbatore on 1<sup>st</sup> March 2025.

36. T.Nikil & B.Abinesh of II Year EEE Department presented a paper on 'Role of Drone in Defence Sector' in a National Level Technical Symposium - EDISON 2K25 at Sona College of Technology, Salem on 27<sup>th</sup> February 2025.

37. T.Riyashini & P.Kowsalya of II Year EEE Department presented a paper on 'Internet of Things' in a National Level Technical Symposium - EDISON 2K25 at Sona College of Technology, Salem on 27<sup>th</sup> February 2025.

38. S.Praveena of II Year EEE Department presented a paper on 'Embedded System' in a National Level Technical Symposium - EDISON 2K25 at Sona College of Technology, Salem on 27<sup>th</sup> February 2025.

39. S.Vijayakanth & B.Hariprasanth of II Year EEE Department presented a paper on 'Sustainable Electronics and E-Waste Management' in a National Level Technical Symposium - EDISON 2K25 at Sona College of Technology, Salem on 27<sup>th</sup> February 2025.

40. K.Gowtham of II Year EEE Department presented a paper on 'Electric Vehicle' in a National Level Technical Symposium - POWVAZ 2K25 at P.A. College of Engineering and Technology, Coimbatore on 25<sup>th</sup> February 2025.

41. Aiswarya Sreejith of II Year EEE Department presented a paper on 'Automation of Egg Hatchery System with IOT' in Biomutant'25 at Chennai Institute of Technology, Chennai on 18<sup>th</sup> February 2025.

42. M.Giriraj of II Year EEE Department presented a paper on 'Sustainable Electronics and E-Waste Management' in a National Level Technical Symposium- INNOVATIX'25 at Kongu Engineering College, Erode on 15<sup>th</sup> February 2025.

43. A.Adhithya of II Year EEE Department presented a paper on 'AI in Power Systems' in a National Level Technical Symposium- MESCIA 2K25 at Kongu Engineering College, Erode on 15<sup>th</sup> February 2025.

44. G.R.Gokulavasan of II Year EEE Department presented a paper on 'AI in Different Fields' in a National Level Technical Symposium - CBEYONZ'25 at Bannari Amman Institute of Technology, Erode on 15<sup>th</sup> February 2025.

45. N.Deepika, S.Bavananipriya & C.Udhayadharshini of II Year EEE Department presented a paper on 'Wireless Transmission' in a National Level Technical Fest - MEDICNIK 2K25 at Karpagam Academy of Higher Education, Coimbatore on 14<sup>th</sup> February 2025.

46. T.Sujitha, M.ArthiSree & G.Jayasree of II Year EEE Department presented a paper on 'Automatic Meter Reading' in a National Level Technical Fest - MEDICNIK 2K25 at Karpagam Academy of Higher Education, Coimbatore on 14<sup>th</sup> February 2025.

47. T.Ananth Kumar & S.Sakthivel of III Year EEE Department presented a paper on 'E-Commerce Online Store Management' in a National Level Technical Symposium at Kongu Engineering College, Erode on 13<sup>th</sup> February 2025.

48. K.Rajalakshmi, G.Suba Parameshwari & Aiswarya Sreejith of II Year EEE Department presented a paper on '6G Wireless Communication' in a National Level Technical Symposium at Kongu Engineering College, Erode on 13<sup>th</sup> February 2025.

49. A.Jacob of II Year EEE Department presented a paper on 'Renewable Energy in Modern Technology' in a National Level Technical Symposium at Kongu Engineering College, Erode on 13<sup>th</sup> February 2025.

50. K.Manikandaprabhu & S.Manikandan of III Year EEE Department presented a paper on 'Universal Current Sensor' in a National Level Sports, Techno & Cultural Fest - VAR-NAM'25 at Karpagam Institute of Technology, Coimbatore on 6<sup>th</sup> & 7<sup>th</sup> February 2025.

51. V.Balakrishnan & S.Santhoshkumar of III Year EEE Department presented a paper on 'Advancement in inverter technology' in a National Level Technical Symposium - Synergy-25 at Bannari Amman Institute of Technology, Erode on 1<sup>st</sup> February 2025.

52. P.Jegan & D.Vinoth Kumar of III Year EEE Department presented a paper on 'Ultrasonic sound detection and its applications' in a National Level Technical Symposium - Synergy-25 at Bannari Amman Institute of Technology, Erode on 1<sup>st</sup> February 2025.

## Publication in Journals by Students

1. R.Deebika, V.Kokila, N.Thrishna and P.Vinothini, Automatic Multi-Functional Water Bottle using ATmega Microcontroller, IJART, ISSN:2395-1052, Vol.11, No.4, April 2025, pp.1130-1135, DoI:[http://www.ijart.com / automatic-multifunctional - water - bottle- using - atmega - microcontroller-103328](http://www.ijart.com/automatic-multifunctional-water-bottle-using-atmega-microcontroller-103328)

2. Akilan.P, Dhanush.M, Jayasurya.K and Dr.T.Sengolrajan, Implementation of Solar Powered Square Shaped Vertical Axis Mirror Reflection to Manage Peacock Movements in Agricultural Areas, ISAR-International Journal of Research in Engineering Technology, Vol.10, No.1, March-April, 2025, ISSN:2455-1341, pp.40-45, DoI: [https://zenodo.org /records/15297184](https://zenodo.org/records/15297184).

3. Dr.T.Sengolrajan, J.H.Ashwin, K.Manojkumar and K.Monish, Organic Insect repellent Vaporizer for Cattle Protection using Microcontroller, ISAR-International Journal of Research in Engineering Technology, ISSN:2455-1341, Vol.10, No.2, DoI:<https://zenodo.org/records/15296866>, March - April 2025, pp. 32-38.

4. K.Karthik, P.Kishorekumar, S.Hariharan and V.Pradeep, Automated Conveyor Belt Printing System for Small Scale Industrial Commodities using PLC, International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN:254-2137, pp.792-799, DoI:10.47392 / IRJAEH.2025.0111.



5. Sridhar.P, Manoj.A,Valan Joshi.J and Meiyarasu.S, AI-Driven Autonomous Hygiene Solution for Public Toilet, International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN:254-2137, pp.674-681, Dol:10.47392/IRJAEH.2025. 0094.

6. R.Gopalakrishnan, V.Heama Chandran, T.Shomesh and M.Kamalesh, Design and Performance Analysis of a Hybrid Inverter for Solar and Wind Energy System, International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN: 2584-2137, pp.555-562, Dol:10.47392 / IRJAEH.2025.0078.

7. S.Ragul, V.Dhayalan, V.Hari Gokul and M.Leiyash, An Investigations into Combined Flow and Pressure Control for Industrial Pumps using adaptive MPC, International Journal of Engineering Development and Research, Vol.13, No.1, March 2025, ISSN:2321-9939, pp.144-151. Dol:10.1729/Journal. 44196.

8. Dr.T.Rajamanikandan, R.Arun, L.Devakumar and R.Sridhar, Advanced Automation Thermal Treatment System for Banana Suckers, International Journal for Science and Advance Research in Technology, Vol.11, No.2, February, 2025, ISSN.No:2395-1052, pp.145-151, Dol:10.5281 / Zenodo.15044492.

9. Dr.P.Arul, S.Akash, S.Parthib Ram and M.Yuvan Adhithya, Development of a Multidirectional Motorized Cart, International Journal of Scientific Research and Engineering Development, Vol.8, No.1, Jan-Feb 2025, pp.1366-1371, Dol: 10.5281/ Zenodo.15152222.

10. Dr.R.Shankar, T.Anushiya, C.Keerthana Shivani and K.Srinitha, Integrated Health Care Solution for Real Time Monitoring and AI-Assist Diagnosis for Senior Citizens, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN: 2348-4098, pp.1-9, February 2025, Dol: 10.61463/ijset.vol.13.issue1.143.

11. K.Karthik, R.Dhanush, V.Thirumalai and P.Dhayanithi, Development and Fabrication of Automatic Chakali Making Machine using PLC, International Journal of Scientific Research & Engineering Trends, Vol.11, No.1, Jan-Feb, 2025, ISSN: 2395-566X, pp.811-817, Dol: 10.61137/ ijsret. vol.11. issue1.169.

12. S.Revathi, R.Brundha, M.Priyadharshini and V.Vijika, Design of Smart Agriculture Wearable for Enhanced Productivity, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN: 2348-4098, pp.1-8, February 2025, DOI:10.61463/ ijset. vol.13. issue1.144.

13. S.Ragul, N.Dharanidharan, K.Mouleeswaran and A.Santhosh Kumar, AI-ML Powered Smart Crop Monitoring System for Preventing Peacock Movements in Agriculture, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN:2348-4098, pp.1-8, March,2025, Dol: 10.61463 / i jset.vol.13.issue1.142.

14. C.Gowrishankar, S.Girieshwaran, M.Keerthivarman and C.Naveen, Optimization of Loading and Storage Mechanism for Enhanced Material Handling in the Motorized Cart, International Journal of scientific Research & Engineering Trends, Vol.11, No.1, Jan-Feb 2025, ISSN : 2395-566X, pp.804-810, Dol: 10.61137/ijset.vol.11. issue1.168.

15.J.Karthikeyan, A.Dhanasekaran, B.Srinivasan, and E.Suthiksan, Smart power theft detection and alert system to leveraging technology for real-time prevention, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISBN. No: 2348-4098, pp.1-9, February,2025, Dol:/10.5281 / zenodo.15068834.

16. Dr.T.Sengolrajan, V.Dharshini, M.Swathi and A.Thabuna, Design and Development of Tablet Making Machine using IOT, International Journal of scientific Research & Engineering Trends, ISSN:2395-566X, Vol.11, No.1, Jan – Feb 2025, pp.786-791, Dol: 10.61137 / ijsret. vol.11.issue1.165.

17. Dr.T.Sengolrajan, T.Abisheik, P.Anandan and N.Gowtham, Development of one app and one village for Connecting Rural Community in a single Platform, International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.13, No.1, pp.1-8, Dol: 10.61463/ ijset.vol.13.issue1.133.

18.P.Tamilnesan, P.Aadhikesavan, R.Dharun and P.Siva, Enhancing the Efficiency of Solar Dryer using Thermal Imaging Technique, International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.13, No.1, pp.1-9, Dol: 10.61463/ijset.vol.13.issue1.140.

## Publication in Conference by Students International Conference

1. Deebika.R, Aarthi.R, Vijayadharshini.R and Sathiya Priya.M, 'Design and Implementation of PLC Controlled Digital Liquid Filling Machine with Manual and Automatic Modes', ANRF Sponsored International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 (INSDAM 2025) held at Kalasalingam academy of Research and Education, Krishnankoil on 27<sup>th</sup> & 28<sup>th</sup> March 2025.

2. Dr.Rajamanikandan.T, Kavya.S and Sowmiya.M, 'Design and Fabrication of Electrolyte from Plantain', ANRF Sponsored International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 (INSDAM 2025) held at Kalasalingam academy of Research and Education, Krishnankoil on 27<sup>th</sup> & 28<sup>th</sup> March 2025.

3. Karthikeyan.J, Dinesh Murugan.P, Santhosh Kumar.P and Karthik.S, 'Design and Development of an Automated Insects Prevention System for Cattle', ANRF Sponsored International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 (INSDAM 2025) held at Kalasalingam academy of Research and Education, Krishnankoil on 27<sup>th</sup> & 28<sup>th</sup> March 2025.

4. Deebika.R, Mahalakshmi.N, Subashini.R and Dharshana.R, 'Development of an Electro-Magnetic Induction Sealing system for Packing Application using PLC', 6<sup>th</sup> International Conference on Computational Intelligence and Industry 5.0 (ICCI 2025) held at Velammal Institute of Technology, Chennai on 21<sup>st</sup> & 22<sup>nd</sup> March, 2025.



5. Revathi.S, Akshaya.N and Gayathiri.S, 'Thermal Controller-based Electric Autoclave System for Medical Equipment Sterilization', 6<sup>th</sup> International Conference on Computational Intelligence and Industry 5.0 (ICCII 2025) held at Velammal Institute of Technology, Chennai on 21<sup>st</sup> & 22<sup>nd</sup> March, 2025.

6. Tamilnesan.P, Praveen.B, Srikanth.M and Sudhakar.S, 'Integration of Smart Obstacle Detection and Navigation System for Optimized Automated Cart Performance', International Conference on Engineering, Science and Management (ICESM) 2025 held at Guru Gobind Singh College of Engineering & Research Centre, Nashik, Maharashtra on 11<sup>th</sup> & 12<sup>th</sup> March 2025.

7. Karthik.K, Kishorekumar.P, Hariharan.S and Pradeep.V, 'Automated Printing on Small Commodities using Conveyor Belt Technology', International Conference on Engineering, Science and Management (ICESM) 2025 held at Guru Gobind Singh College of Engineering & Research Centre, Nashik, Maharashtra on 11<sup>th</sup> & 12<sup>th</sup> March 2025.

8. Mohanraj.K and Mahilmithran.R.S, 'Development of Special Purpose Machine using PLC', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

9. Gopalakrishnan.R, Shomesh.T, Kamalesh.M, Heema Chandran.V, 'Design and Performance Analysis of a Hybrid Inverter for Solar and Wind Energy System', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

10. Sridhar.P, Manoj.A, Valan Joshi.J and Meiyarasu.S, 'AI-Driven Autonomous Hygiene Solution for Public Toilet', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

11. Gopalakrishnan.R, Aneesh.S, Logeshkumar.S and Chandra Mouli.K, 'Modular Industrial Labeling and Stamping System with Conveyor Integration using PLC Controller', Second International Conference on Futuristic Trends in science, Engineering and Management (ICFTSEM-II)-2025 held at St.Xavier's College of Management & Technology (SXCMT), Patna & Global Conference Hub, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025.

## ✿ National Conference

1. Pooja.S, Sona.K and Harshini.S, 'Eco-Friendly Smart Switchboard Using Banana Leaf Residue', National Conference GSIEEB'25 held at Vivekanandha College of Engineering for Women, Namakkal on 9<sup>th</sup> April 2025.

2. Vinothini.P, Thrishna.N and Kokila.V, 'Smart Door Locking System with Face Recognition Using ESP32-CAM', National Conference GSIEEB'25 held at Vivekanandha College of Engineering for Women, Namakkal on 9<sup>th</sup> April 2025.

3. Ananth Kumar.T, Karthikeyan.U and Naveen Kumar.G, 'Design and Development of IoT Enabled Digital Notice Board', National Conference GSIEEB'25 held at Vivekanandha College of Engineering for Women, Namakkal on 9<sup>th</sup> April 2025.

## ✿ Student Participation

Event	Number of students
External Seminar	6
External Workshop	48
Internal Workshop	7
Internal Seminar	10
Technical & Non-Technical events	102

## ✿ Internship

- Texmo Industries, Coimbatore.
- TECHLeaf Systems Pvt Ltd, Chennai.
- Shashti Techno Products, Coimbatore.
- Mahalakshmi Industries, Coimbatore.
- S.M.W. Hydraulics (India), Erode.
- e-soft IT Solutions, Trichy.
- Autotech Industries (India) Private Limited, Chennai.
- Padmavahini Transformers Private Limited, Coimbatore.
- NimatooZ Smile Mobility Private limited, Pudukkottai.
- Winzone Softech, Karaikudi.
- Technovation, Tirunelveli.
- Swelect Energy Systems Limited, Karur.
- HI-TECH CNC AUTOMATION, Coimbatore.
- K.K.P. Textiles Pvt. Ltd, Namakkal.
- Tamilnadu Newsprint and Papers Limited, Karur.
- Crescent Infotech, Coimbatore.

## ✿ Industrial Visit

1. Kudankulam Nuclear Power Plant, Tirunelveli.
2. S & T Workshops/S.Rly/Podanur, Coimbatore.
3. Valayapatty 230KV TANTRANSCO Substation, Valayapatty, Namakkal.
4. Athikadavu - Avinashi Project, Bhavani, Erode.

## ✿ Product Development





K.Gokulnath, V.Ajay, I.MohammedImthiyas, A.Sam, I.Gobikrishnan, G.Devaprakash and V.Kamal Govindhan of III year students developed and handover an “E-Vehicle” to our management in association with UBA on 3<sup>rd</sup> January 2025. Mr.Manikacam, MD, Agri Tech Integrated Farmers Producer Company Limited, Chennai has sponsored partial spare parts from the CSR Fund.



S.Akash, S.Parthib Ram, M.Yuvan Adhithya, S.Girieswaran, M.Keerthivarman, C.Naveen, B.Praveen, M.Srikanth and S. Sudhakarof IV year students under the guidance of Dr.P.Arul, Professor/ EEE, Mr.C.Gowrishankar, AP/EEE and Mr.P.Tamilnesan, AP/EEE developed and handover an “Motorized Cart” to our management on 7<sup>th</sup> May 2025.

## Achievements and Awards

• Dr.T.Rajamanikandan, Assistant Professor/EEE & Head (IPR & Product Development) received “Grameen Bharat Mahotsav 2025 (“குறிஞ்சி மேலா’25)” for excelled in exhibiting their achievements towards showcasing the vibrant spirit of rural innovation and agribusiness organized by NABARD MABIF in association with NABARD – National Bank for Agriculture and Rural Development at Codissia Trade Fair Complex, Coimbatore from 20<sup>th</sup> June to 22<sup>nd</sup> June, 2025.

Dr.Dhamodharan S (Adjunct Faculty), Power System Controls Engineer, Vestas R&D Chennai Pvt. Ltd., conducted an explanatory and hands-on session on various power system modeling and simulation using MATLAB.



## Patents Published :

• Dr.G.Saravanan, Dr.V.S.Arulmurugan, Dr.M.Murugesan, R.Gopalakrishnan, VJ.Vijayalakshmi, T.Ramesh, M.Inba Arasi, S.Suba, M.Dinesh, R.Aravindh & Dr.P.Venkatesan, ‘PV Fed DC Micro Grid System for Integration of PMSM’, Application Number-202441063037 filed on 21<sup>st</sup> August 2024 and published on 30<sup>th</sup> August 2024.

• Dr.G.Saravanan, T.Sivalingam, J.Priyadharshini, S.Revathi, Dr.S.Ravichandran, Dr.S.Selvaganapathi, Dr.S.Sengottaian, N.Venkatraman, M.Inba Arasi, M.Padmavathi, A.Jainulafdeen & S.K.Deepa, ‘Emergency Shutdown of Wind Turbines under Certain Conditions Affecting Grid using IoT’, Application Number - 202441086569 filed on 10<sup>th</sup> November 2024 and published on 15<sup>th</sup> November 2024.

• Dr.G.Saravanan, Dr.M.Murugesan, Dr.K.Saravanakumar, Shankar Rajukkanu, Venkatraman.N, Nirmala.S, Dr.Kannan Kaliappan, P.C.Sivakumar, B.Rajesh Kumar, T.Ramesh, S.Kanagavalli, M.Punitha & M.Vivekanandhan, ‘IoT Enabled Smart Charging and Battery and Battery Management for Electric Vehicle’, Application Number - 20244109342 filed on 18<sup>th</sup> November 2024 and published on 29<sup>th</sup> November 2024.

## Placements:

Name of the Company	No of Offers
Cognizant	2
Infosys	1
Renault Nissan Technology & Business Center India Pvt Ltd, Chengalpattu	1
Vaken Technologies, Trichy	1
Conserve Solutions, Trichy	7
Techvolt Software Pvt Ltd, Coimbatore	1
KGiSL Technologies, Coimbatore	3
Omega Healthcare, Trichy	5
VDart, Inc., Trichy	5
Anand Engineering Products Pvt Ltd, Trichy	23
Texmo Industries - Taro Pumps, Coimbatore	6
Aquasub Engineering, Coimbatore	24
VR Della Infotech, Trichy	3
Pacific Engineered Surfaces Pvt Ltd, Krishnagiri	3
Mitsuba India Private Limited, Chennai	17
Daebu Automotive Seat India Pvt Ltd, Chennai	4
Pegatron Technology India Pvt Ltd, Chennai	39
Vee Technologies, Inc., Chennai	1
Sutherland Global Services Pvt Ltd, Chennai	18
Qgate	2
Movate Technologies, Chennai	3
Emerson Pvt Ltd, Chennai	1



## LIST OF TOPPERS NOV / DEC -2024

### (IV Year/ VII Sem)

RANK 1



**R.SUBASHINI**  
[9.063 SGPA]

RANK 2



**V.VIJIKA**  
[8.688 SGPA]

RANK 3



**M.SWATHI**  
[8.500 SGPA]

### (III Year/ V Sem)

RANK 1



**S.POOJA**  
[9.435 SGPA]

RANK 2



**P.VINOTHINI**  
[9.435 SGPA]

RANK 3



**N.THRISHNA**  
[9.130 SGPA]



**S.MAHESHWARI**  
[8.913 SGPA]

### (II Year/ III Sem)

RANK 1



**A.ADHITHYA**  
[9.292 SGPA]

RANK 2



**S.YUVA BALAN**  
[8.609 SGPA]

RANK 3



**AISWARYA SREEJITH**  
[8.565 SGPA]

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

**PEO 1 : Knowledge :** Graduates will apply the knowledge of electrical drives and controls, embedded systems and power system engineering to solve the real world problems using modern engineering tools.

**PEO II : Skills :** Graduates will be able to design, analyze and interpret data for various investigations to meet the needs of the society and industry.

**PEO III : Attitude/Behavior :** Graduates shall develop ethical values and interpersonal skills to work as a part of teams on multidisciplinary projects.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

**PSO1 : Professional skills :** Students shall have abilities to take challenges associated with electrical power and renewable energy generation, transmission, distribution and utilization.

**PSO2 : Competency :** Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

## PROGRAM OUTCOMES (POs)

After completion of the course the graduates will have ability to :

**PO1 : Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2 : 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.

**PO3 : 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.

**PO4 : 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.

**PO5 : Modern Tool Usage :** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO7 : 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.

**PO8 : Ethics :** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9 : Individual and Team Work :** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10 : 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.

**PO11 : 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.

**PO12 : 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.



## COLLEGE VISION & MISSION

### VISION

“To become an Internationally Renowned Institution in Technical Education, Research and Development by Transforming the Students into Competent Professionals with Leadership Skills and Ethical Values.”

### MISSION

- ❖ Providing the Best Resources and Infrastructure.
- ❖ Creating Learner-Centric Environment and Continuous Learning.
- ❖ Promoting Effective Links with Intellectuals and Industries.
- ❖ Enriching Employability and Entrepreneurial Skills.
- ❖ Adapting to Changes for Sustainable Development.

## DEPARTMENT VISION & MISSION

### VISION

“To be a pioneer in Electrical and Electronics Engineering and to create electrical engineering experts with social responsibilities, for global industry needs”

### MISSION

- ❖ To facilitate the students continuous learning with best infrastructure and environment.
- ❖ To provide the students with skills, knowledge and opportunities to function as member of multi-disciplinary teams
- ❖ To empower the students towards popular needs of industry, research and development
- ❖ To enable the students to learn ethics, values and contribution to the society.



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