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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 Odd semester 2025-26 was held virtually on 30<sup>th</sup> June 2025 through Google Meet for discussion on Curriculum & Syllabi for the V semester & Vertical courses in regulation R-2024 and Department Achievements in the Even Semester 2024-2025 followed by the proposed activity for the Odd semester during the Academic Year 2025-2026.

| FACULTY CONTRIBUTIONS  |                     |  |                           |                |                |
|--|---------------------|--|---------------------------|----------------|----------------|
| S.No   | Name of the Faculty | No. of FDP/STP attended                  | No. of Journals Published |                |                |
| 1  | Dr.R.Shankar        | 01                                       | SCS/SCIE                  | Scopus Indexed | Local Journals |
| 2  | Dr.P.Anil           | 01                                       | 04                        | 02             | 18             |
| 3  | Dr.T.Sengolejan     | 02                                       | 24                        |                |                |
| 4  | Mr.K.Karthik        | 01                                       |                           |                |                |
| 5  | Mr.R.Gopalakrishnan | 01                                       |                           |                |                |
| 6  | Mr.S.Rajul          | 04                                       |                           |                |                |
| 7  | Mrs.R.Deebika       | 02                                       |                           |                |                |
| 8  | Mrs.S.Revathi       | 01                                       |                           |                |                |
| 9  | Mr.P.Tamilnesan     | 02                                       |                           |                |                |
| 10   | Mr.J.Karthikeyan    | 01                                       |                           |                |                |
| 11   | Mr.C.Gowrishankar   | 01                                       | 06                        | 11             |                |
| 12   | Mr.P.Sridhar        | 01                                       | 17                        |                |                |
| No. of Patent Copy Rights/Industrial Designs Filed/Published/Granted |                     |  |                           |                |                |
| No. of Patents Filed (18.06.2025)                                    |                     | No. of Design patents Filed (18.06.2025) |                           |                |                |
| 07   |                     | 05                                       |                           |                |                |

### Board of Studies Meeting

The Tenth board of studies meeting was conducted on 23<sup>rd</sup> August 2025 for discussing the curriculum and syllabi for the 5<sup>th</sup> semester and vertical courses and in the regulation R-2024 for specialized area in all the Engineering streams.



## Parent – Teachers Meet

Parent – Teachers Meet was conducted for IV, III & II year on 29<sup>th</sup>, 30<sup>th</sup> & 31<sup>st</sup> July 2025 respectively. 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)

Guest Lecture on 'Supply Chain Management' was organized on 27<sup>th</sup> September 2025. The resource person was Mr.S.Pradeevraj, Deputy Manager-Program Management, Violin Technologies Private Limited, Chennai.



Hands on Training 'PLC Applications in Industrial Automation' was organized on 26<sup>th</sup> September 2025. The resource person was Mr.P.Tamilnesan, Assistant Professor / EEE, Kongunadu College of Engineering and Technology, Thottiam.

- Seminar on 'Comprehensive Overview of Electric Vehicles and Key Components' was organized on 25<sup>th</sup> September 2025. The resource person was Dr.K.Karthick,M.E.,Ph.D., Senior Manager (Pressure Parts Stress Analysis / Engineering), Bharat Heavy Electricals Limited (BHEL), Trichy.



- Seminar on 'Career Prospects for Electrical Engineers in Steel Sector' was organized on 28<sup>th</sup> August 2025. The resource person was Dr.R.Satish, Assistant General Manager, Hot Rolling Mill, Steel Authority of India Limited, Salem.



- Seminar on 'Power Quality Challenges in Grid - Integrated Renewable Energy Systems' was organized on 24<sup>th</sup> September 2025. The resource person was Dr.S.Senthilkumar, Assistant Executive Engineer, 230/110KV Substation Aliyar, Tamilnadu Transmission Corporation (TANTRANSCO), Coimbatore.



- Guest Lecture on 'Basics of AI for Electrical Engineers' was organized on 22<sup>nd</sup> July 2025. The resource person was Dr.R.Muhammad Ehsan, Senior Manager, Bharat Heavy Electricals Limited, Trichy.



- National level technical symposium on 'TEKCLUSTER'25' was organized on 13<sup>th</sup> September 2025. The resource person was Mr.Senthil kumar Ganapathy, Vice President & Head of Design Department, Larsen & Toubro, Chennai.

## ✿ Innovation & Entrepreneurship Development (IED) Cell:

- Innovation Launchpad was organized on 31<sup>st</sup> October 2025. The guest speakers were Mr.Surender, Founder & CEO, Medpoint Healthcare, Chennai and Mr.S M Manoj Kumar, Process Associate, Startup TN, Trichy.

- Seminar on 'Gateway to Entrepreneurship: Turning Ideas to Impact' was organized on 27<sup>th</sup> October 2025. The resource person was Mr.K.Vasan, Founder & Director, Grainera Agrofood India Pvt Ltd, Karur.

- Seminar on 'SHELEADS: Empowering Women in Entrepreneurship' was organized on 17<sup>th</sup> October 2025. The resource person was Ms.Gunasundhari Manikkam, Founder & CEO, Aarkka Hygiene Care, Trichy.

- Inaugural Ceremony of Innovation & Entrepreneurship Development (IED) cell was organized on 12<sup>th</sup> September 2025. The resource persons were Er.N.M.Mohan Karthick, DDM, NABARD, Tiruchy, Ms.B.Prashanthi, Project Lead, Startup TN, Chennai and Mr..S.M.Manoj Kumar, Project Associate, Startup TN, Trichy.



- Guest Lecture on 'Advanced Embedded System' was organized on 09<sup>th</sup> September 2025. The resource person was Mr.J.P.Ezhilarasan, J.P.N Infotech & J.P.N group of Industries, Chennai.

- Guest Lecture on 'Career Guidance for Aspiring Engineers' was organized on 29<sup>th</sup> August 2025. The resource person was Mr.S.Ragul, Process Associate, CMT - Amazon Development Centre, Chennai.



• Inaugural and Motivational Speech on “இன்று புத்தாயம் பிறந்தோம்” was conducted on 25<sup>th</sup> July 2025. The resource person was Mrs.K.Bhuvaneshwari Debate and Motivational Speaker, Tiruppur.



### Energy Club :

• Seminar on ‘Energy Integration Challenges and Innovative Solutions’ was organized on 29<sup>th</sup> September 2025. The resource person was Dr.S.Harini, Deputy Manager, Simigrid Power System Solution Pvt Ltd, Chennai.



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

• Workshop on “Industrial Applications of IoT using ESP32 for Smart Devices” was conducted on 27<sup>th</sup> October 2025. The resource person was Mr.J.Karthikeyan, Assistant Professor / EEE, Kongunadu College of Engineering and Technology, Thottiam.

### The Institution of Engineers (India) Students’ Chapter:

• Department of Electrical and Electronics Engineering in association with The Institution of Engineers (India) Students' Chapter organized All India Workshop on ‘Potential Applications of Artificial Intelligence and Machine Learning in Electrical Engineering’ on 10<sup>th</sup> & 11<sup>th</sup> July 2025. The resource person for the various sessions were Er.P.Samuthirapandi, General Manager/MM, BHEL, Trichy, Dr.S.Senthil Kumar, AP (Sr.Gr)/EEE Department, University College of Engineering, Ariyalur, Dr.P.Preethi, Professor & HOD/IT, Kongunadu College of Engineering and Technology, Thottiam, Dr.S.Dharmalingam, Former General Manager, BHEL, Trichy, Dr.P.Anbalagan, AP/ EEE, Anna University BIT Campus, Trichy, Dr.S.Moorthi, Professor/EEE, NIT, Trichy and Dr.Ankur singh Rana, AP/EEE, NIT, Trichy.

• Guest Lecture on ‘Powering the Future by Integrating Renewable Energy and Battery Systems’ was organized on 14<sup>th</sup> August 2025. The resource person was Mr.A.Kesavan, CEO, Quantanics Techserv Pvt Ltd, Madurai.



### Tamil Mandram:

• Gandhi Jayanathi Competitions (Speech, Kavithai and Essay Writing) was conducted on 26<sup>th</sup> September 2025.



• Department of Electrical and Electronics Engineering in association with The Institution of Engineers (India) Students' Chapter organized Seminar on ‘Grid Integration of Renewable Power Plants with the Aid of Artificial Intelligence’ on 20<sup>th</sup> September 2025. The resource person was Er.P.Sivaraman, Power System Engineer, Power Plant Control Engineer, Schneider Electric Solar India Pvt Ltd, Chennai.



## 🌸 Staff Contribution

### 🌸 Staff Achievements and Awards

• Dr.R.Shankar, Professor & Head, EEE department received 'Er.PVK.Achan Award-2025' from The Institution of Engineers (India), Tiruchirappalli Local Centre for outstanding contributions, professional excellence and dedicated service in advancing the field of engineering and inspiring future generations on the occasion of Engineers' Day 2025 on 19<sup>th</sup> September, 2025.



• Dr.R.Shankar, Faculty Advisor of EEE IEI Students' Chapter received 'Best Student Chapter Award 2025' from The Institution of Engineers (India), Tiruchirappalli Local Centre in recognition of its exemplary performance, active participation and outstanding contribution in promoting engineering education and professional development among students on 19<sup>th</sup> September, 2025.



### 🌸 Staff as a resource person

• Dr.S.Ragul, AP, Electrical and Electronics Engineering department gave a lecture on 'Modern Optimization based Control Techniques for Renewable Energy Systems' in view of celebrating National Energy Conservation Day at Kongunadu College of Engineering and Technology, Trichy on 30<sup>th</sup> December 2025.

• Mrs.S.Revathi, AP, Electrical and Electronics Engineering department gave a lecture on 'Nurturing Ideas into Innovation & Startup for a Better Tomorrow' in view of celebrating National Education Day at Kongunadu College of Engineering and Technology, Trichy on 11<sup>th</sup> November 2025.

### 🌸 Faculty Industrial Training:

❖ Mrs.S.Revathi, AP, Electrical and Electronics Engineering have undergone the industrial training at Everrise Engineering, Coimbatore from 11<sup>th</sup> December to 13<sup>th</sup> December 2025.

❖ Mr.P.Tamilnesan, AP, Electrical and Electronics Engineering have undergone the industrial training at Heaven Automation Private Limited, Trichy from 11<sup>th</sup> December to 13<sup>th</sup> December 2025.

❖ Dr.A.Sampath, ASP and Mrs.R.Deebika, AP, Electrical and Electronics Engineering have undergone the industrial training at Sriwin Electric, Salem from 04<sup>th</sup> December to 06<sup>th</sup> December 2025.

❖ Mr.R.Gopalakrishnan and Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering have undergone the industrial training at Zekko Power Private Limited, Salem from 04<sup>th</sup> December to 06<sup>th</sup> December 2025.

❖ Mr.C.Gowrishankar and Mr.P.Sridhar, AP, Electrical and Electronics Engineering have undergone the industrial training at Pallavan Textiles (P) Ltd, Erode from 03<sup>rd</sup> December to 05<sup>th</sup> December 2025.

❖ Dr.T.Sengolrajan, ASP and Mr.S.Ragul, AP, Electrical and Electronics Engineering have undergone the industrial training at Blue Sea Power Solutions, Salem from 03<sup>rd</sup> December to 05<sup>th</sup> December 2025.

❖ Mr.K.Mohanraj and Mr.K.Karthik, AP, Electrical and Electronics Engineering have undergone the industrial training at ALC Solar Power Plant, Karur from 27<sup>th</sup> November to 29<sup>th</sup> November 2025.

❖ Mr.R.Gopalakrishnan & Mr.C.Gowrishankar, AP, Electrical and Electronics Engineering have undergone the industrial training at Watt Tech Energies, Salem from 30<sup>th</sup> June to 2<sup>nd</sup> July 2025.

❖ Mr.K.Mohanraj & Mr.K.Karthik, AP, Electrical and Electronics Engineering have undergone the industrial training at Milanic Energy Solutions Private Limited, Thuraiyur from 26<sup>th</sup> June to 28<sup>th</sup> June 2025.

❖ Mrs.S.Revathi, AP, Electrical and Electronics Engineering have undergone the industrial training at Turnmill Solutions, Coimbatore from 26<sup>th</sup> June to 28<sup>th</sup> June 2025.

❖ Dr.T.Sengolrajan, ASP, Electrical and Electronics Engineering have undergone the industrial training at the Supreme Industries Limited, Puducherry from 19<sup>th</sup> June to 21<sup>st</sup> June 2025.

❖ Mrs.R.Deebika, AP, Electrical and Electronics Engineering have undergone the industrial training at Shambhavi Magnetics, Hosur from 19<sup>th</sup> June to 21<sup>st</sup> June 2025.

❖ Mr.S.Ragul and Mr.P.Sridhar, AP, Electrical and Electronics Engineering have undergone the industrial training at Kothari Sugars and Chemicals Limited, Trichy from 16<sup>th</sup> June to 18<sup>th</sup> June 2025.

❖ Mr.P.Tamilnesan and Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering have undergone the industrial training at Nova Aerospace Private Limited, Pudukkottai from 12<sup>th</sup> June to 14<sup>th</sup> June 2025.

### 🌸 NPTEL- Faculty :

• Dr.R.Shankar, Professor and Head, Electrical and Electronics Engineering completed the NPTEL course on 'Basic Electrical Circuits' during July 2025 to October 2025.

- Dr.P.Arul, Professor, Electrical and Electronics Engineering completed the NPTEL course on 'Basic Electrical Circuits' during July 2025 to October 2025.

- Dr.T.Sengolrajan, ASP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' and received Elite certificate during July 2025 to October 2025.

- Dr.A.Sampath, ASP, Electrical and Electronics Engineering completed the NPTEL course on 'Enclosure Design of Electronics' and received Elite + Silver certificate during July 2025 to October 2025.

- Mr.K.Karthik, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' during July 2025 to October 2025.

- Mr.R.Gopalakrishnan, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' and received Elite + Silver certificate during July 2025 to October 2025.

- Mr.S.Ragul, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' and received Elite certificate during July 2025 to October 2025.

- Mrs.R.Deebika, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' and received Elite certificate during July 2025 to October 2025.

- Mrs.S.Revathi, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' and received Elite + Gold+ Topper 5% certificate during July 2025 to October 2025.

- Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' and received Elite certificate during July 2025 to October 2025.

- Mr.P.Sridhar, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Physics of Renewable Energy Systems' and received Elite certificate during July 2025 to October 2025.

- Mr.P.Tamilnesan, AP, Electrical and Electronics Engineering completed the NITTT module-2 on 'Professional Ethics and Sustainability' and module-3 on 'Communication Skills, Modes and knowledge Dissemination' during September 2025.

## Publication of Book/Manual

- Dr.P.Arul, K.Mohanraj and S.Ragul, Electrical Machines and Drives, The Charulatha Publications, Chennai, ISBN:978-93-49002-52-4, June, 2025.

- Dr.M.Dharmalingam, Dr.R.Shankar and Dr.V.Bharathi, Linear Integrated Circuits and Applications, The Charulatha Publications, Chennai, ISBN:978-93-47517-25-9, November, 2025.

- Dr.P.Arul, Dr.T.Sengolrajan and J.Karthikeyan, Synchronous and Induction Machines, The Charulatha Publications, Chennai, ISBN:978-93-47517-71-6, November, 2025.

- K.Karthik, P.Tamilnesan and S.Revathi, Control Systems, The Charulatha Publications, Chennai, ISBN : 978-93-47517-24-2, December, 2025.

- R.Gopalakrishnan, C.Gowrishankar and K.Mohanraj, Transmission and Distribution, The Charulatha Publications, Chennai, ISBN: 978-93-47517-90-7, December, 2025.

- Dr.A.Sampath, Biocontrol Systems, The Charulatha Publications, Chennai, ISBN: 978-93-93479-12-9, December, 2025.

## Publication in Journals

- Prabu Kaliyaperumal, Palani Latha, Selvaraj Palanisamy, **Sridhar Pushpanathan**, Anand Nayyar, Balamurugan Balusamy and Ahmad Alkhayyat, 'SiamIDS: A Novel Cloud - Centric Siamese Bi-LSTM Framework for Interpretable Intrusion Detection in Large-Scale IoT Networks', Computer Standards & Interfaces, ISSN: 0920-5489, SCIE, Elsevier, December 2025, I.F:3.1,Q1, Dol: <https://doi.org/10.1016/j.csi.2025.104119>

- Sunder Ramasamy, Brindha Mohanraj, Sridhar **Pushpanathan**, Thenmozhi Elumalai, Prabu Kaliyaperumal, Rajakumar Perumal, 'DeepRetina: a multimodal framework for early diabetic retinopathy detection and progression prediction', International Journal of Informatics and Communication Technology (IJ-ICT), ISSN:2252-8776, Vol.15, No.1, December 2025, pp.152-160, Scopus, Q4,I.F:0.174, Dol:<http://doi.org/10.11591/ijict.v15i1.pp152-160>

- S.Jaganathan, **M.Kabilan**, D.Varshney, S.Singh, R.Dhairiyasamy and D.Gabriel, 'Optimizing Squirrel Cage Rotor Design: Combined Effects of Bar Inclination and Intermediate Rings', Archives of Metallurgy and Materials, ISSN:1733-3490, Vol.70, No.4, pp.1927-1935, SCIE, December, 2025, I.F:0.70, Q3, Dol: <https://doi.org/10.24425/amm.2025.156279>.

- **R.Gopalakrishnan** and Kumar R Bharani, 'Stability enhancement in hybrid microgrids: a dual approach using enhanced artificial physics and particle swarm optimization', Expert Systems with Applications, Elsevier, ISSN:0957-4174, Vol.303, SCIE, Science Direct, I.F:7.5,Q1, December, 2025, Dol:<https://doi.org/10.1016/j.eswa.2025.130228>.

- **P.Arul**, K.Arulvendhan, R.Satheesh, S.Banumathi, 'Green production of n-type Zn1-xInxO 2D nanoflakes and the photo-electrical characteristics of p-Si/n-Zn1-xInxO heterojunction diodes', Optical and Quantum Electronics, November 2025, ISSN.No:0306-8919 Vol.57, Article. No.631, Dol:<https://doi.org/10.1007/s11082-025-08550-0>, I.F:4, SCIE, Springer.

- **Sampath Anbazhagan**, Maria Kalavathy Gnanamani, U.Arun Kumar, Ngaira Mandela, 'Machine Learning -Enhanced High sensitivity hemoglobin detection using a Kretschmann - based SPR biosensor with Optimized Copper and silver layers', Chemical Engineering Journal, October 2025, ISSN:1385-8947, Vol.524, No.15, pp.1-15, Dol:<https://doi.org/10.1016/j.cej.2025.169485>, I.F:13.2, SCIE, Elsevier, Q1.

• Hanuumes, **Arul Ponnusamy**, Dhamodharan Selvaraj, Tanuja Koppa Shankaregowda, Venugopal Narasimhachar and Ananda Marilingappa Halasiddappa, 'Implementation of Fuzzy in DQ Control of PV based Inverter with Plug-in Electric Vehicles', International Journal of Applied Power Engineering (IJAPE), September 2025, ISSN: 2252-8792, Vol.14, No.3, pp.666-675, DOI: <http://doi.org/10.11591/ijape.v14.i3.pp666-675.iF:1.55>, Scopus, Q2.

• **Shankar Rajukkannu**, Ratchagaraja Dhairiyasamy, Deekshant Varshney and Subhav Singh 'Comparative Evaluation of Mono and Hybrid Nanofluids in Loop Heat Pipe-cooled Bifacial PV Systems under Simulated Irradiance Conditions', Applied Thermal Engineering, September 2025, ISSN : 1359-4311, pp.1-26, DOI: <http://dx.doi.org/10.2139/ssrn.5280404>, I F:6.9, SCIE, Elsevier, Q1.

• **Shankar Rajukannu**, R.Dhairiyasamy, A.Althobaiti and S.Singh 'Electrochemical Synthesis and Characterization of redox-tunable organometallic complexes via controlled potential electrolysis,' Digest Journal of Nanomaterials and Biostructures, July 2025, ISSN : 1842-3582, Vol.20, No.3, pp.737-751, DOI: <https://doi.org/10.15251/DJNB.2025.203.737>, IF:1.3, SCIE, Q3.

• R.Hemalatha, K.Arunkumar, **K.Karthik** and D.M.Kalaiselvi 'Core-shell assembly of NiMoO<sub>4</sub>@g-C<sub>3</sub>N<sub>4</sub>/RGO nanoarrays as for high-performance supercapacitors,' Journal of Materials Science: Materials in Electronics, July 2025, ISSN: 0957-4522, Vol.36, No.21, Article.No.1332, pp.1-15, DOI: <https://link.springer.com/article/10.1007/s10854-025-15409-3>, IF:2.8, SCIE, Springer, Q2.

• Pierre Subesh, S.M.Kamali, V.Malathy, **Shankar Rajukannu**, Ratchagaraja Dhairiyasamy, Deekshant Varshney, Subhav Singh and Elangovan Murugesan, 'Impact of Energy Management Systems on the Efficiency of Electrical Testing Equipment in Automotive Research', Journal of Mines, Metals and Fuels, June 2025, ISSN:0022-2755, Vol.73, No.6, DOI: <https://doi.org/10.18311/jmmf/2025/49009>, IF:0.2, Scopus, Q4.

## ✿ Publication in Conference

• P.Pandiaraja, S.Radha, **Sengolrajan Thanasingh**, K.Karthik, G.Vijayakumar and C.Selvarathi, 'Enhance User Authentication Via Deep Learning on Face and Periocular Biometrics', IEEE Proceedings of 3<sup>rd</sup> International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2025), ISBN:979-8-3315-1250-7, at Erode, India from 6<sup>th</sup>-8<sup>th</sup> August, 2025, pp.1029-1035, DOI: 10.1109/ICSCDS65426.2025.11167738.

• P.Pandiaraja, C.Visali, S.Murali, K.Karthik, **S.Revathi** and C.Selvarathi, 'A Deep Learning based Framework for automated Freshness and Quality Assessment in agricultural Produce', IEEE 4<sup>th</sup> International Conference on Innovative Mechanisms for Industry Applications (ICIMIA-2025) at Sasurie College of Engineering, Tirupur from 3<sup>rd</sup> -5<sup>th</sup> September, 2025.

• C.Selvarathi, P.Pandiaraja, C.Ushapriya, R.Senthilkumar, B.T.Annapoorani and **R.Deebika**, 'Gyroscope and Accelerometer Based Assistive Spoon for Motor Disorder Patients', IEEE 6<sup>th</sup> International Conference on Smart Electronics and communication (ICOSEC 2025) at Kongunadu College of Engineering and Technology, Trichy from 24<sup>th</sup> -26<sup>th</sup> September, 2025.

• Sarathkumar.D, Raymon Antony Raj, T.P.Saravanan, B.K.Parrthipan, Murugesan Manivel, Guna G, Anil A.R.Sivakumar Annamalai, **Karthikeyan.J**, 'An extensive critique cybersecurity threats and mitigation strategies in smart grid networks with PID', 2025 IEEE 2<sup>nd</sup> International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST-2025) at National Institute of Technology, Jamshedpur from 11<sup>th</sup> -13<sup>th</sup> October, 2025.

• **P.Tamilnesan**, 'An IoT based Smart Health Management Paradigm to Predict Overweight and Obesity Levels using Machine Learning Logic in 2025', IEEE 2025 6<sup>th</sup> Global Conference for Advancement in Technology (GCAT) at Nagarjuna College of Engineering and Technology, Bangalore from 24<sup>th</sup> -26<sup>th</sup> October, 2025.

## ✿ Seminar/ Workshop/ Webinar Attended

• Mr.K.Karthik, AP, Electrical and Electronics Engineering department attended National level Workshop on 'Emerging Trends in Quantum Technologies' organized by the Grover Centre of quantum Technology, Rajalakshmi Institute of Technology, Chennai from 8<sup>th</sup> to 12<sup>th</sup> December 2025.

• Mr.S.Ragul, AP and Mr.C.Gowrishankar, AP, Electrical and Electronics Engineering department attended one-day National Webinar on 'Integrated Circuit RF Reliability Engineering' organized by Koneru Lakshmaiah Education Foundation (KLEF), Off-Campus Bowrampet, Hyderabad on 29<sup>th</sup> November 2025.

• Mrs.R.Deebika, AP, Electrical and Electronics Engineering department attended one-day Institution's Innovation Council (IIC) Regional Meet 2025 and Training of Trainers (TOT) session for Innovation Ambassadors organized by PSG college of Arts and science, Coimbatore on 25<sup>th</sup> November 2025.

• Mr.P.Tamilnesan, AP, Electrical and Electronics Engineering department attended three days Faculty Development Programme under the scheme of Tamilnadu Youth Innovation and Entrepreneurship Development Programme (TNYIEDP) organized by the Tiruchirappalli District Entrepreneurship Development and Innovation Institute (EDII-TN), Chennai from 11<sup>th</sup> to 13<sup>th</sup> November 2025.

• Mr.R.Gopalakrishnan, AP and Mr.K.Mohanraj, AP, Electrical and Electronics Engineering department attended five days online workshop on 'From Tools to Agents: The Rise of Agentic AI' organized by the Kongu Engineering College, Perundurai from 15<sup>th</sup> to 19<sup>th</sup> September 2025.

• Dr.T.Rajamanikandan, AP, Electrical and Electronics Engineering department & Head (IPR & PD) attended E-Cell Coordinators Workshop under the scheme of Tamilnadu Youth Innovation and Entrepreneurship Development Programme (TNYIEDP) organized by the Tiruchirappalli District Entrepreneurship Development and Innovation Institute (EDII-TN), Chennai from 28<sup>th</sup> October 2025.

## ✿ FDP Attended

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

• ATAL FDP on 'Innovative Trends in Data Science and Electric Mobility: IPR Opportunities and Challenges' organized by BIRLA Institute of Technology, Jharkhand from 08<sup>th</sup> to 13<sup>th</sup> December 2025.

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

- ATAL FDP on 'Emerging Trends in Digital Twin Technology for Hydrogen Production, Storage and Transport' organized by Krishnasamy College of Engineering and Technology, Cuddalore from 15<sup>th</sup> to 20<sup>th</sup> December 2025.

- ATAL FDP on 'Advances in Renewable Energy Technologies for Sustainable Future' organized by S.B.Jain Institute of Technology, Management and Research, Nagpur from 01<sup>st</sup> to 06<sup>th</sup> December 2025.

- FDP on 'Outcome Based Education and Application of Generative AI in Teaching and Research' organized by St.John Technical & Educational Campus, Palghar from 19<sup>th</sup> to 26<sup>th</sup> November 2025.

- Innovation Ambassador (IA) training 'Upskilling' certification by MoE's Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

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

- FDP on 'Intelligent Electric Mobility: Driven Technologies for Next-Generation EV's' organized by Paavai Engineering College, Namakkal from 15<sup>th</sup> to 19<sup>th</sup> December 2025.

- ATAL FDP on 'Next Generation Medical Automation: The Role of AI and IoMT in Transforming Healthcare Systems' organized by Kongunadu College of Engineering and Technology, Trichy from 01<sup>st</sup> to 06<sup>th</sup> December 2025.

- FDP on 'Challenges and solutions for Power Quality for Power Quality in Modern Power Electronics Driven Power System' organized by Dream Institute of Technology, Kolkata from 25<sup>th</sup> to 29<sup>th</sup> November 2025.

- FDP on 'Green Technologies for a Sustainable Future: The Synergy of EVs and Renewable Energy' organized by Vimal Jyothi Engineering College, Kerala from 17<sup>th</sup> to 21<sup>st</sup> November 2025.

- NPTEL FDP on 'Physics of Renewable Energy Systems' organized by NPTEL through MOOCs mode from July to October 2025.

- Innovation Ambassador (IA) training 'Upskilling' certification by MoE's Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training 'Reskilling' certification by MoE's Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training 'Advanced Level' certification by MoE's Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training 'Foundation Level' certification by MoE's Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- FDP on 'Future of Electric Vehicles: AI Driven Innovations and Trends' organized by Jai Shriram Engineering College, Tirupur from 21<sup>st</sup> to 26<sup>th</sup> July 2025.

**Dr.A.Sampath**, Associate Professor, Electrical and Electronics Engineering department attended

- ATAL FDP on 'New Trends in Semiconductor Technology' organized by Kongu Polytechnic College, Erode from 22<sup>nd</sup> to 27<sup>th</sup> December 2025.

- ATAL FDP on 'Next Generation Medical Automation: The Role of AI and IoMT in Transforming Healthcare Systems' organized by Kongunadu College of Engineering and Technology, Trichy from 01<sup>st</sup> to 06<sup>th</sup> December 2025.

- FDP on 'Innovative HealthCare: Leveraging AI and ML for Advanced Biomedical Signal Analysis' organized by Aarupadai Veedu Institute of Technology, Vinayaka Mission's Research Foundation, Chennai from 30<sup>th</sup> October to 04<sup>th</sup> November 2025.

- NPTEL FDP on 'Enclosure Design of Electronics Equipment' organized by NPTEL through MOOCs mode from July to October 2025.

**Dr.T.Rajamanikandan**, Assistant Professor, Electrical and Electronics Engineering department and Head (IPR & PD) attended

- 4-week BEACON Idea Validation Program Cohort 4 organized by Tamilnadu Technology Hub, Ministry of Electronics and Information Technology from 9<sup>th</sup> to 31<sup>st</sup> May 2025.

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

- FDP on 'Intelligent Electric Mobility : Driven Technologies for Next-Generation EV's' organized by Paavai Engineering College, Namakkal from 15<sup>th</sup> to 19<sup>th</sup> December 2025.

- ATAL FDP on 'Renewable Energy System and Grid Integration: Technologies, Challenges & Solutions' organized by MEA Engineering College, Kerala from 01<sup>st</sup> to 06<sup>th</sup> December 2025.

- FDP on 'Green Technologies for a Sustainable Future: The Synergy of EVs and Renewable Energy' organized by Vimal Jyothi Engineering College, Kerala from 17<sup>th</sup> to 21<sup>st</sup> November 2025.

- NPTEL FDP on 'Physics of Renewable Energy Systems' organized by NPTEL through MOOCs mode from July to October 2025.

- FDP on 'Future of Electric Vehicles : AI Driven Innovations and Trends' organized by Jai Shriram Engineering College, Tirupur from 21<sup>st</sup> to 26<sup>th</sup> July 2025.

- FDP on 'AI's Role in Modern Research & Development' organized by Sree Sakthi Engineering College, Coimbatore from 30<sup>th</sup> June to 05<sup>th</sup> July 2025.

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

- ATAL FDP on 'Renewable Energy System and Grid Integration : Technologies, Challenges & Solutions' organized by MEA Engineering College, Kerala from 01<sup>st</sup> to 06<sup>th</sup> December 2025.

- Innovation Ambassador (IA) training ‘Reskilling’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training ‘Advanced Level’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training ‘Foundation Level’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

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

- ATAL FDP on ‘Advances in Renewable Energy Technologies for Sustainable Future’ organized by S.B.Jain Institute of Technology, Management and Research, Nagpur from 01<sup>st</sup> to 06<sup>th</sup> December 2025.

- NPTEL FDP on ‘Physics of Renewable Energy Systems’ organized by NPTEL through MOOCs mode from July to October 2025.

- FDP on ‘Designing Decentralized solutions: Blockchain in Modern Industry 4.0’ organized by Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology from 07<sup>th</sup> to 12<sup>th</sup> July 2025.

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

- Innovation Ambassador (IA) training ‘Upskilling’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- FDP on ‘Artificial Intelligence and Machine Learning’ organized by Rajiv Gandhi University, Arunachal Pradesh from 15<sup>th</sup> to 19<sup>th</sup> September 2025.

- NPTEL FDP on ‘Physics of Renewable Energy Systems’ organized by NPTEL through MOOCs mode from July to October 2025.

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

- FDP on ‘Green Technologies for a Sustainable Future: The Synergy of EVs and Renewable Energy’ organized by Vimal Jyothi Engineering College, Kerala from 17<sup>th</sup> to 21<sup>st</sup> November 2025.

- NPTEL FDP on ‘Physics of Renewable Energy Systems’ organized by NPTEL through MOOCs mode from July to October 2025.

- FDP on ‘Artificial Intelligence and Machine Learning’ organized by Rajiv Gandhi University, Arunachal Pradesh from 15<sup>th</sup> to 19<sup>th</sup> September 2025.

- FDP on ‘Curriculum Development using Outcome Based Approach’ organized by NITTR, Chandigarh from 04<sup>th</sup> to 08<sup>th</sup> August 2025.

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

- ATAL FDP on ‘Renewable Energy System and Grid Integration: Technologies, Challenges & Solutions’ organized by MEA Engineering College, Kerala from 01<sup>st</sup> to 06<sup>th</sup> December 2025.

- Innovation Ambassador (IA) training ‘Upskilling’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- NPTEL FDP on ‘Physics of Renewable Energy Systems’ organized by NPTEL through MOOCs mode from July to October 2025.

- FDP on ‘Future of Electric Vehicles: AI Driven Innovations and Trends’ organized by Jai Shriram Engineering College, Tirupur from 21<sup>st</sup> to 26<sup>th</sup> July 2025.

- FDP on ‘Designing Decentralized solutions: Blockchain in Modern Industry 4.0’ organized by Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology from 07<sup>th</sup> to 12<sup>th</sup> July 2025.

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

- ATAL FDP on ‘Emerging Trends in Digital Twin Technology for Hydrogen Production, Storage and Transport’ organized by Krishnasamy College of Engineering and Technology, Cuddalore from 15<sup>th</sup> to 20<sup>th</sup> December 2025.

- FDP on ‘Next-Gen Sustainability: Exploring Industry 5.0’s Potential’ organized by Alliance University, Karnataka from 08<sup>th</sup> to 13<sup>th</sup> December 2025.

- Innovation Ambassador (IA) training ‘Upskilling’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training ‘Reskilling’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training ‘Advanced Level’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training ‘Foundation Level’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- FDP on ‘Agricultural Waste Valorization: Unlocking Potential for Sustainable Fuel, Compost and Commodity Chemicals’ organized by Rathinam Technical Campus, Coimbatore from 15<sup>th</sup> to 20<sup>th</sup> September 2025.

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

- ATAL FDP on ‘Emerging Trends in Digital Twin Technology for Hydrogen Production, Storage and Transport’ organized by Krishnasamy College of Engineering and Technology, Cuddalore from 15<sup>th</sup> to 20<sup>th</sup> December 2025.

- FDP on ‘Green Technologies for a Sustainable Future: The Synergy of EVs and Renewable Energy’ organized by Vimal Jyothi Engineering College, Kerala from 17<sup>th</sup> to 21<sup>st</sup> November 2025.

- Innovation Ambassador (IA) training ‘Upskilling’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training ‘Reskilling’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- Innovation Ambassador (IA) training ‘Advanced Level’ certification by MoE’s Innovation Cell & AICTE for the IIC calendar activity 2024-2025.

- NPTEL FDP on ‘Physics of Renewable Energy Systems’ organized by NPTEL through MOOCs mode from July to October 2025.

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

- FDP on ‘Green Technologies for a Sustainable Future: The Synergy of EVs and Renewable Energy’ organized by Vimal Jyothi Engineering College, Kerala from 17<sup>th</sup> to 21<sup>st</sup> November 2025.

- FDP on ‘Data Analysis for smart Grid applications’ organized by SRM Institute of Science and Technology, Kattankulathur from 15<sup>th</sup> to 19<sup>th</sup> November 2025.

- FDP on ‘Generative AI and Prompt Engineering’ organized by R.P.Sarathy Institute of Technology, Salem from 27<sup>th</sup> to 31<sup>st</sup> October 2025.

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

- NPTEL FDP on ‘Physics of Renewable Energy Systems’ organized by NPTEL through MOOCs mode from July to October 2025.

- FDP on ‘Curriculum Development using Outcome Based Approach’ organized by NITTR, Chandigarh from 04<sup>th</sup> to 08<sup>th</sup> August 2025.

- FDP on ‘Powering the Future: Artificial Intelligence Powered solutions for Industrial Applications’ organized by Easwari Engineering College, Chennai from 21<sup>st</sup> to 25<sup>th</sup> July 2025.

### Patent Published :

- Dr.T.Rajamanikandan, Dr.P.Arul, Dr.S.A.Sahaaya Arul Mary, Dr.T.Sengolrajan, T.Ashok, K.Karthick, N.Sharmiladevi, K.M.Swarna Devi, Dr.V.Bharathi, T.Beni Steena and L.Nivetha, ‘Self - Activating Light Capsule using Passive Airflow - Responsive Unbalanced Ball Mechanism for Controlled Chemical Reaction without Electricity’, Application Number- 202541058343 filed on 18<sup>th</sup> June 2025 and published on 4<sup>th</sup> July 2025.

- Dr.T.Rajamanikandan, Dr.R.Asokan, Dr.J.Preetha, Dr.S.Dhanabal, Dr.P.Preethi, Dr.K.Amudha, T.Meenal, Dr.N.Sridhar, A.Mohanadevi and S.Manikandan, ‘AI-Controlled Reflective Bird Deterrent Device with Solar-Powered Illumination and Rotating Mirror Mechanism’, Application Number - 202541058344 filed on 18<sup>th</sup> June 2025 and published on 4<sup>th</sup> July 2025.

- Dr.T.Rajamanikandan, Dr.R.Shankar, Dr.T.Yuvaraja, Dr.M.Suganthi, M.Thangadurai, Dr.P.Kalachelvi, C.Radhakrishnan, R.Premkumar, Dr.G.Kiruthika, N.Jayapal and S.Parthiban, ‘Non-Destructive System and Method for Extraction Core and Sheath Water from Living Banana Plants’, Application Number - 202541058345 filed on 18<sup>th</sup> June 2025 and published on 4<sup>th</sup> July 2025.

- Dr.T.Rajamanikandan, Dr.S.Kavipriya, Dr.R.Saravanan, R.V.Viswanathan, Dr.M.Senthilkumar, Ms.G.Veera Karunya, S.Revathi, M.Santhanaraj, S.Revathi and J.Sathiskumar, ‘AI-Integrated Solar-Powered Desalination System using Eco-Friendly Materials for Portable Drinking Water Generation’, Application Number - 202541058346 filed on 18<sup>th</sup> June 2025 and published on 4<sup>th</sup> July 2025.

- Dr.T.Rajamanikandan, Dr.P.Arul, Dr.S.Dhanabal, V.Krishnakumar, Dr.P.Elayaraja, Dr.R.Sathya, Dr.T.Sengolrajan, R.Deebika, P.Tamilnesan, J.Karthikeyan and C.Gowrishankar, ‘Smart Multi-Functional LED Lamp with Integrated Motion Detection Air & NBSP, Quality Monitoring Alarm System Cloud Connectivity and Mobile App Control’, Application Number - 202541058352 filed on 18<sup>th</sup> June 2025 and published on 4<sup>th</sup> July 2025.

- Dr.T.Rajamanikandan, Dr.P.Arul, Dr.R.Shankar, R.Gopalakrishnan, Dr.R.Saravanan, S.Suganya, Dr.M.Paranthaman, S.Kumaravel, R.Arana, L.Nivetha and A.Mohan Kumar, ‘AI Enabled Spider Type Robotic Device for Wall Surface Cleaning and Automated Plaster Repair with Mobile App Control and Rechargeable Battery Operation’, Application Number-202541058353 filed on 18<sup>th</sup> June 2025 and published on 4<sup>th</sup> July 2025.

- Dr.T.Rajamanikandan, Dr.J.Yogapriya, Dr.C.Saravanabhavan, Dr.M.Dharmalingam, K.Mohanraj, Dr.B.Umarani, Dr.A.Sampath, R.Palanikumar, Dr.P.Pabhu and M.Sundharam, ‘Method for Producing Natural Fiber Based Bio Composites from Banana Leaf Waste for Smart Toy and Decorative Applications’, Application Number - 202541058354 filed on 18<sup>th</sup> June 2025 and published on 4<sup>th</sup> July 2025.

### Design Registered :

- T.Rajamanikandan, P.Arul, S.Kavipriya, K.Anguraju, P.Thenmozhi and V.Dhanalakshmi, ‘Soap and Odor Bar Holding stand’, Design Number - 418614-001 registered on 6<sup>th</sup> November 2025.

- Dr.T.Rajamanikandan, Dr.P.Arul, Dr.T.Sengolrajan, Dr.C.Saravanabhavan, Dr.P.Preethi and C.Gowrishankar, ‘Medication Injector for Tree’, Design Number - 462584-001 registered on 18<sup>th</sup> September 2025.

### Students Contribution

#### NPTEL Completed :

- 15 students from II year EEE department completed NPTEL course on ‘Introduction to Internet of Things’ during July 2025 to October 2025.

- 46 students from III year EEE department completed NPTEL course on ‘Introduction to Industry 4.0 and Industrial Internet of Things’ during July 2025 to October 2025.

- 51 students from IV year EEE department completed NPTEL course on ‘Physics of renewable Energy Systems’ during July 2025 to October 2025.

### IIT Spoken Tutorial Completed :

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

- 62 students from Third Year EEE department completed IIT Spoken Tutorial on “C”.

- 58 students from Second Year EEE department completed IIT Spoken Tutorial on “Arduino”

## Prize Won

• A.Sam, R.Hariharan and U.Karthikeyan of IV year Electrical and Electronics Engineering department won First Prize in “Paper Presentation - IoT based Portable Smart Switch using ESP8266” and “Technical Quiz” at National Level Technical Symposium and Project Contest, BEETRONIX - 2k25 held by Selvam College of Technology, Namakkal on 25<sup>th</sup> October 2025.

• J.Mouleeshwaran, J.H.Ashwin and K.Manoj Kumar of IV year Electrical and Electronics Engineering department won Second Prize in “Technical Quiz” at National Level Technical Symposium and Project Contest, BEETRONIX - 2k25 held by Selvam College of Technology, Namakkal on 25<sup>th</sup> October 2025.

• A.Adhithya and S.Sathasivam of III year Electrical and Electronics Engineering department won First Prize in “Connection” at National Level Student Symposium - TECHSYM SARYU-2025 held by Sengunthar Engineering College, Namakkal on 25<sup>th</sup> & 26<sup>th</sup> September 2025.

• S.Maheswari and V.Kokila of IV year Electrical and Electronics Engineering department won First Prize in “Robo Quiz” at National Level Student Symposium - TECHSYM SARYU-2025 held by Sengunthar Engineering College, Namakkal on 25<sup>th</sup> & 26<sup>th</sup> September 2025.

• B.Hariprasath, A.Rithik and S.Vengadeshwaran of III year Electrical and Electronics Engineering department won First Prize in “Paper Presentation - Organic Insect - Repellent Vaporizer for Cattle Protection using Microcontroller” at National Level Student Symposium - MECHFUSION 2025 held by Variyar Engineering College, Salem on 17<sup>th</sup> September 2025.

## Publication in Conference by Students

1. Adhithya A, Ranjith R and Sudhakar S, ‘Automated Water tank Cleaning System using ESP32 Controller’, Second International Conference on Global Trends in Engineering and Technological Advancement (2<sup>nd</sup> ICGTETA’25) held at Gojan School of Business and Technology, Chennai on 25<sup>th</sup> October 2025.

2. Jacob A, Dharanidharan S A and Athavan S, ‘Smart Fan Cleaning System using IoT’, Second International Conference on Global Trends in Engineering and Technological Advancement (2<sup>nd</sup> ICGTETA’25) held at Gojan School of Business and Technology, Chennai on 25<sup>th</sup> October 2025.

## Student Participation :

| Event                            | Number of students |
|----------------------------------|--------------------|
| Paper Presentation               | 108                |
| External Workshop                | 38                 |
| Internal Workshop                | 56                 |
| Technical & Non-Technical Events | 71                 |

## Internship

1. Bharat Sanchar Nigam Limited, Tirunelveli
2. Coral Engineering Works India Pvt Ltd, Erode
3. Ecore Electrical & Automation Technologies, Salem
4. HITAJE (India) Pumps Division, Coimbatore
5. Inno Mektronic The E.M.S. Company, Coimbatore
6. Kothari Sugars and Chemicals Ltd, Trichy
7. Nice Industries, Trichy
8. Power Teck Solutions, Trichy
9. S.M.W. Hydraulics (India), Erode
10. Shre Rice Prowin Pvt Ltd, Trichy
11. Smile 3D Tech, Coimbatore
12. Steel Authority of India Limited, Salem
13. Suzlon, Tirunelveli
14. The Ramco Cements Limited, Ariyalur
15. The Salem Co-Op. Sugar Mills Ltd, Namakkal
16. Universal Foundry, Karur
17. Frontline Tech Innovation Center, Karur
18. ITtoALL, Coimbatore
19. Ideal Formatic Group of Companies, Salem
20. KS Mani Industries, Vedasandur
21. Birds India Corporation, Salem
22. ILIFE Technologies, Trichy
23. Astonish InfoTech Private Limited, Trichy
24. GVG Paper Mills Private Limited, Udumalpet
25. Tamilnadu Power Distribution Corporation Limited, Tirunelveli
26. The Mohanur Co-Op. Sugar Mills Ltd., Namakkal

## Industrial Visit

- Unisol Green Energy Resource Pvt.Ltd, Thuraiyur
- Kudankulam Nuclear Power Plant, Tirunelveli
- Mettur Thermal Power Plant, Mettur
- Kerala Electrical & Allied Engineering Co. Ltd, Kerala
- Masco Tea Factory, Kerala

## Value Added Course

- VACEE16 – MBD Application in Power Systems
- VACEE14 – Autodesk AutoCAD Electrical

## Adjunct Faculty :

The Adjunct Faculty, Dr.Dhamodharan S, Lead Active Power Control Engineer at Vestas R&D Chennai Pvt. Ltd., conducted an explanatory and hands-on session on various power system modeling and simulation using MATLAB. Second, third and final year students are benefitted.



## LIST OF TOPPERS APRIL/ MAY-2025

### (IV Year / VIII Sem)

RANK 1



S.AKASH  
[9.368 SGPA]

RANK 1



M.SWATHI  
[9.368 SGPA]

RANK 1



V.VIJIKA  
[9.368 SGPA]

RANK 2



P.ANANDAN  
[9.211 SGPA]

RANK 2



A.DHANASEKARAN  
[9.211 SGPA]

RANK 2



C.KEERTHANA  
SHIVANI  
[9.211 SGPA]

RANK 3



M. SOWMIYA  
[9.053 SGPA]

### (III Year/ VI Sem)

RANK 1



S.MAHESHWARI  
[9.789 SGPA]

RANK 2



P.VINOTHINI  
[9.474 SGPA]

RANK 3



S.POOJA  
[9.053 SGPA]

### (II Year/ IV Sem)

RANK 1



A.ADITHYA  
[9.958 SGPA]

RANK 2



AISWARYA  
SREEJITH  
[9.130 SGPA]

RANK 2



S.YUVA BALAN  
[9.130 SGPA]

RANK 3



P.KESAVARTHINI  
[8.870 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)

Engineering Graduates will be able to:

**PO1: Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

**PO2: Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

**PO3: Design/Development of Solutions:** Design creative solutions for complex engineering problems and design / develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

**PO4: Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

**PO5: Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

**PO6: The Engineer and the World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

**PO7: Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

**PO8: Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

**PO9: Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

**PO10: Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

**PO11: Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

## 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.



*Chief Editor*

**Dr. R.Shankar,**  
Professor & HOD/EEE

*Executive Editor*

**Mrs. S.Revathi,**  
AP/EEE

*Editors*

**K.Manoj Kumar,** (IV/EEE)

**A.Adhithya,** (III/EEE)

**R.Nawin Rathiyn,** (II/EEE)



**Kongunadu**

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[Autonomous]

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