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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 2024-25 was held virtually on 10th July 2024 through Google Meet for discussion on Curriculum R-2024 and Department Achievements in the Even Semester 2023-2024 followed by the proposed activity for the Odd semester during the Academic Year 2024-2025.

Technical Symposium

• Twelfth National Level Technical Symposium, TEKCLUSTER'24 was organized on 21st September 2024. The resource person was Mr.K.Subramanian, HR/Learning & Developer, TVS Group, Chennai.



Board of Studies Meeting

The Eighth board of studies meeting was conducted on 31st August 2024 for discussing the third semester syllabus for students to be admitted during 2024 and got approval for value added courses and open elective subjects.



Parent – Teachers Meet

• Parent – Teachers Meet was conducted for IV, III & II year on 29th, 30th & 31st August 2024 respectively. The prizes have been awarded to the students and staff members for their best performance.

Programme Conducted by the Department

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

• Seminar on 'Low Powered IoT Infrastructure' was organized on 29th October 2024. The resource person was Mr.Karthikeyan Periyasamy, Senior Software Engineer, Tech Mahindra Ltd., Bengaluru.



• Guest Lecture on 'Advanced Technology in Automotive' was organized on 10th October 2024. The resource person was Mr.M.Logeswaran, (Alumnus : 2010-2014 Batch), Design Engineer (Automotive Electrical Architecture), Renault Nissan Technology and Business Center India, Chennai.



- Seminar on 'Challenges of New Age Ignition System' was organized on 14th August 2024. The resource person was Mr.L.S.ThamaraiKannan, Assistant Manager(HR), India Nippon Electricals Ltd (INEL), Pondicherry.



- Guest Lecture on 'Emerging Technologies in High Voltage Engineering' was organized on 27th July 2024. The resource persons were Mr.C.Janakiraman, Director, Menaka Electricals Pvt., Ltd., Chennai and Mr.V.R.Suresh, Assistant Manager (Electrical Maintenance & Projects) A.V.Thomas Leather and Allied Products Pvt., Ltd., Chennai.



- Department of Electrical and Electronics Engineering in association with The Institution of Engineers (India) Student's Chapter organized Seminar on 'UPSC Career Option for Engineers' on 15th November 2024. The resource person was Major. Dr.PS.Raghavendran, Associate Professor, Department of Electrical and Electronics Engineering, Kongu Engineering College, Erode.



✿ Energy Club

1. Seminar on 'Green Audit for Sustainable Energy Management' was organized on 14th October 2024. The resource person was Dr.T.Logeswaran, Energy Manager & Energy Auditor, Associate Professor / EEE, Kongu Engineering College, Erode.



2. Guest Lecture on 'Insights and Opportunities in Renewable Energy Sector' was organized on 29th July 2024. The resource person was Er.B.Manikandan, Managing Director, Amirtham Renewables Pvt.Ltd, Coimbatore.



✿ Tamil Mandram

- Motivational Speech on "தமிழின் பெருமையும் நவீனமும்" was organized on 5th October 2024. The resource person was Mr.Bala. Sasikumar, (Alumnus), Advocate, Karur.

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

- Department of Electrical and Electronics Engineering inaugurated "The Institution of Engineers (India) Student's Chapter" and organized Guest Lecture on 'Generative AI' on 19th September 2024. The resource person was Dr.S.Ravimaran, Chairman, Institution of Engineers (India), Tiruchirappalli Local Centre & Professor and Head, Department of Artificial Intelligence and Data Science, Saranathan College of Engineering, Tiruchirappalli.





• Inauguration and Pattimandram on “வாழ்க்கையின் வசந்த காலம் வாட்ஸ் அப் காலமா? வயல் வெளி காலமா?” was organized on 7th August 2024. The resource person was Mrs.Kavitha Venugopal, Motivational Speaker, Coimbatore.



✿ Centre for Excellence – Internet of Things & Embedded Systems

• Workshop on ‘Industrial Internet of Things and Its Applications’ was organized on 19th October 2024. The resource persons were Mr.J.Karthikeyan and P.Tamilnesan, Assistant Professors / EEE, Kongunadu College of Engineering and Technology (Autonomous), Thottiam, Trichy.



• Seminar on ‘The Future of Intelligent Real-Time Applications and Emerging Trends in IoT’ was organized on 7th October, 2024. The resource person was Mr.V.Selvaraj, Founder & CEO, Make Vision and Make Labs Pvt.Ltd., Bangaluru.

✿ Centre for Excellence – Industrial Automation

1. A Two Days Skill Training titled ‘HMI Design and Development for Industrial Applications’ was organized on 09th August to 10th August 2024. The chief guest was Mr.P.Tamilnesan, Assistant Professor / EEE, Kongunadu College of Engineering and Technology (Autonomous), Thottiam, Trichy.



2. A Seminar titled ‘Industrial Energy Systems’ was organized on 26th July 2024. The chief guest was Mr.Sai Sreenivas U.V, Director, MCore Technologies Pvt Ltd, Nagasandra Post, Bangaluru.



✿ Staff Contribution

✿ Staff Achievements and Awards

• Dr.T.Sengolrajan, ASP, Electrical and Electronics Engineering department received “Excellence in Research and Publication Award” for the outstanding contribution and achievements in academic discipline during SNS Faculty Excellence Award’ 24 on 27th December at SNS Institutions, Coimbatore.



- Dr.T.Rajamanikandan, Head (IPR & Product Development) and Dr.J.Yogapriya, Dean (R&D) has received the provisional order for Kongunadu College of Engineering and Technology to establish Startup TN Pre-Incubation Centre on 12th November 2024 by Startup TN, Tamil Nadu Startup and Innovation Mission, Government of Tamil Nadu, Chennai with a grant of Rs.22.50 Lakhs.



- Mr.T.Rajamanikandan has completed Ph.D Via Voce in 'Electrical Engineering' and thesis titled 'Dielectric Properties of Banana Fiber based Insulation Material for High Voltage Applications' at Anna University Chennai under the supervision of Dr.S.Banumathi, Professor / EEE, M.Kumarasamy College of Engineering, Karur on 16th August 2024.

- Dr.R.Shankar, Professor and Head, Electrical and Electronics Engineering completed the NPTEL course on 'Accreditation and Outcome Based Learning' and received Elite+ Silver certificate during August 2024 to October 2024.

- Mr.K.Karthik, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Introduction to Internet of Things' and received Elite certificate during July 2024 to October 2024.

- Mrs.Revathi, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Introduction to Internet of Things' and received Elite+Silver+Topper 5% certificate during July 2024 to October 2024.

- Mr.S.Ragul, Mr.C.Gowrishankar, Mrs.R.Deebika, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Introduction to Industry 4.0 and Industrial Internet of Things' and received Elite certificate during July 2024 to October 2024.

- Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering completed the NPTEL course on 'Introduction to Industry 4.0 and Industrial Internet of Things' during July 2024 to October 2024.

🌸 Staff as a resource person

- Dr.T.Rajamanikandan, AP, Electrical and Electronics Engineering department & Head (IPR & Product Development) gave a Seminar on 'Patent Drafting, Filing and Processing' at AVS College of Technology, Salem on 16th December 2024.

- Dr.T.Sengolrajan, ASP, Electrical and Electronics Engineering has contributed as a Team Mentor in Smart India Hackathon Grand Finale, 2024 Hardware Edition for the Team-TITANS02 titled 'Development of Portable EMI Meter for Induction Measurement' at MIT Art, Design & Technology University, Pune from 11th - 15th December 2024.

- Dr.R.Shankar, Professor and Head, Electrical and Electronics Engineering has acted as an Academic Expert in First Governing Body Meeting at J.K.K Munirajah College of Technology, T.N.Palayam, Erode on 20th September 2024.

- Dr.T.Sengolrajan, ASP, Electrical and Electronics Engineering has acted as a Keynote Speaker for Engineer's Talk A online webinar Series on 'Battery Technology and BMS for EV' at The Institution of Engineers (India), Salem Local Centre on 18th September 2024.

- Mr.S.Ragul and Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering trained the school students at the Digital Literacy Class on 'Basics of Computer Hardware Networking and Microsoft Office' at Government Higher Secondary school, Palayapalayam, Namakkal District on 12th July 2024.

🌸 Faculty Industrial Training

- Mr.C.Gowrishankar, AP, Electrical and Electronics Engineering has undergone the industrial training at Swelect Energy Systems Limited, Trichy from 23rd December to 25th December 2024.

- Mrs.S.Revathi, AP, Electrical and Electronics Engineering has undergone the industrial training at Salzer Electronics Limited (Unit-I), Coimbatore from 23rd December to 25th December 2024.

- Mr.K.Mohanraj and Mr.K.Karthik, AP, Electrical and Electronics Engineering has undergone the industrial training at Aruna Textile Processing Mills Solar Power Plant, Trichy from 23rd December to 25th December 2024.

- Mr.S.Ragul and Mr.P.Sridhar, AP, Electrical and Electronics Engineering has undergone the industrial training at Anand Engineering Products Pvt. Ltd, Trichy from 20th December to 23rd December 2024.

- Mr.R.Gopalakrishnan and Mr.P.Tamilnesan, AP, Electrical and Electronics Engineering has undergone the industrial training at Mobitech Wireless Solution Private Limited, Erode from 20th December to 22nd December 2024.

- Dr.T.Sengolrajan, ASP and Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering has undergone the industrial training at Bright Brothers Limited, Puducherry from 20th December to 22nd December 2024.

Mrs.R.Deebika, AP, Electrical and Electronics Engineering has undergone the industrial training at Salzer Electronics Limited (Unit-II), Coimbatore from 18th December to 20th December 2024.

Mr.K.Mohanraj and Mr.C.Gowrishankar, AP, Electrical and Electronics Engineering has undergone the industrial training at Arul Jothi Transformers Company, Krishnagiri from 6th September to 9th September 2024.

✿ Publication in Journals

1. K.S.Neelu Kumar, L.Murali, S.Vijayabaskar and R.Gopalakrishnan, A Reconfigured Architecture of Mathematical Morphology using Fuzzy Logic Controller for ECG QRS Detection, Journal of Electrical Engineering, ISSN.No:1975-0102, December 2024, (online), Dol: <http://doi.org/10.1007/s42835-024-02116-y>, I.F: 1.6, SCIE.

2. T.Rajamanikandan, S.Banumathi, Ponnusamy Arul and Shankar R, Dielectric and Chemical Characteristics of Nano-cellulose Banana Fiber Epoxy Composites for High Voltage applications in Power Systems, Global NEST Journal, ISSN:1790-7632, Vol.27, No.1, pp.1-12, November 2024, Dol: <https://doi.org/10.30955/gnj.06443>, I.F:1.0, SCIE.

3. P.Arul, S.Amuthameena, S.Banumathi and K.Dhayalini, Enhanced Performance of Novel Green Synthesized CuS nanostructures decorated with Rh and Pd nanoparticles for energy generation and gas sensing Applications, Optical Materials, Elsevier, ISSN.No: 0925-3467, Vol.157, no.2, November 2024, Dol: <https://doi.org/10.1016/j.optmat.2024.116336>, I.F:3.8, SCIE.

4. S.Ragul and P.S.Raghavendran, Augmenting Microgrid Control with GHNO for efficient BLDC Motor Integration and Renewable Energy Utilization, Electrical Engineering, Springer, ISSN.No : 0948-7921, October 2024 (online), Dol: <https://doi.org/10.1007/s00202-024-02697-X>, I.F:1.6, SCIE.

5. R.Shankar and R.Gandhi, A Comprehensive Study of Power Amplifier Classes: Design Parameters and Efficiency analysis with a Focus on Class EPA, Journal of Systems Engineering and Electronics, ISSN : 1671-1793, Vol.34, no.8, pp.54-64, August 2024, Dol: 20.14118.jsee.2024. V34I8. 1856, Scopus.

✿ Publication in Conference

1. Pandiaraja.P, Karthick Kathirvel, Karthik.K and Murali.S, 'Virtual Attendance Management by Facial Recognition using OpenCV' Springer 9th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2024) at Jaipur, India (Virtual Mode), 19th - 21st December, 2024.

2. Pandiaraja.P, Thangavel.S, Sengolrajan Thanasingh and Karthik.K, 'A Gesture Translation for Hearing-Impaired Individuals in Emergency Circumstances' Springer 9th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2024) at Jaipur, India (Virtual Mode), 19th -21th December, 2024.

3. Gowrishankar.C, 'An Efficient Data Collection using Whale Optimization Algorithm (WOA) in Wireless Sensor Network in 2024' IEEE 2nd Global Conference on Information Technologies & Communication (GCITC) at Reva University, Bengaluru, 25th - 26th October, 2024.

4. Pavithra Mani, Meenatchi.K, Gowrishankar.C, Nallakumar.R, Kanikha.M, Kavin.B and Kanishkar Rohith.G 'A Model Employing Interpretable Deep Learning Techniques to Forecast Dental Caries Through the Analysis of Panoramic Radiograph Images' IEEE proceedings of 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, pp.1-6, Doi : 10.1109/ICCCNT61001.2024.10724200, June 2024.

✿ Workshop / Webinar / FDP Attended

✿ Webinar / Seminar:

• Dr.T.Sengolrajan, ASP, Mr.K.Mohanraj and Mr.P.Sridhar, AP, Electrical and Electronics Engineering department has attended Workshop on 'Design and Challenges of Electric Vehicles and Charging Systems' from 12th November 2024 to 13th November 2024 organized by B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai through on line mode.

• Mr.S.Ragul, AP, Electrical and Electronics Engineering department has attended webinar on 'Design Methods of Inverters for EVs' at SSN College of Engineering, Chennai on 19th October 2024.

• Mr.R.Gopalakrishnan, AP, Electrical and Electronics Engineering department has attended International Workshop on 'AI Tools for Research and Publications' organized by Scholars Gate-Research Training Institute, Tamilnadu from 14th to 16th October 2024.

• Dr.R.Shankar, Professor & Head, Electrical and Electronics Engineering department has completed Innovation Ambassador (IA) training 'Reskilling' (21 sessions / 21 hours) conducted in online mode by MoE's Innovation Cell & AICTE, during IIC calendar year 2023-2024, September 2024.

• Mr.S.Ragul and Mrs.S.Revathi, AP, Electrical and Electronics Engineering department has attended Online Research Level webinar series on "Recent Trends on Power Electronics & Power Engineering Systems" organized by SSN College of Engineering, Chennai on 21st September 2024.

• Mrs.R.Deebika, AP, Electrical and Electronics Engineering department attended ANRF Sponsored National Workshop (SERB) on 'Unleash Your Inner Strength : A Three -Day Stress Busting Workshop for Women's Empowerment' organized by Mahindra Institute of Technology, Namakkal from 9th September to 11th September 2024.

• Mr.K.Karthik and Mr.R.Gopalakrishnan, AP, Electrical and Electronics Engineering department attended One Week Gen AI Integrated International online Workshop on 'Cloud and DevOps' at Amal Jyothi College of Engineering and Marian College, Kuttikanam from 23rd August to 3rd September 2024 through online mode.

• Mr.S.Ragul and Mrs.S.Revathi, AP, Electrical and Electronics Engineering department attended IA training 'Reskilling' (Total 21 sessions of 21 contact hours) in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year, August 2024.



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

- AICTE NITTR FDP on 'Outcome based Education and Accreditation Process' organized by KNCET in association with NITTR, Chandigarh from 25th to 29th November 2024.
- NPTEL Faculty Development Programme on "Accreditation and Outcome Based Learning" organized by NPTEL through MOOCs mode from August to October 2024 (8 Weeks).
- Innovation Ambassador (IA) training 'Advanced Level' (16 sessions / 30 hours) conducted in online mode by MoE's Innovation Cell & AICTE, during IIC calendar year 2023-2024, September 2024.
- Innovation Ambassador (IA) training 'Foundation Level' (16 sessions / 30 hours) organized by MoE's Innovation Cell & AICTE, during IIC calendar year, July 2024.
- NITTR FDP on 'Electric Vehicle Systems and Control' organized by National Institute of Technical Teachers Training and Research, Chennai from 8th to 12th July 2024.

Dr.T.Sengolrajan, ASP, Electrical and Electronics Engineering department attended

- AICTE NITTR FDP on 'Outcome based Education and Accreditation Process' organized by KNCET in association with NITTR, Chandigarh from 25th to 29th November 2024.
- FDP on 'Artificial Intelligence's Impact on Transforming Software, Robotics, Electrical, Electronics & Mechanical fields' organized by Dhaanish Ahmed College of Engineering, Chennai from 5th to 10th August 2024.

Mr.R.Gopalakrishnan, AP, Electrical and Electronics Engineering department attended

- AICTE NITTR FDP on 'Outcome based Education and Accreditation Process' organized by KNCET in association with NITTR, Chandigarh from 25th to 29th November 2024.
- ATAL FDP on 'Artificial Intelligence's Potential Applications in Energy Management and Energy Storage Systems: A Technological Revolution' organized by K.S.R College of Engineering from 9th to 14th September 2024.
- FDP on 'Advance Trends and Technologies in Power Engineering and Renewable Energy Systems' organized by MLR Institute of Technology, Hyderabad from 26th to 31st August 2024.

Mr.K.Karthik, AP, Electrical and Electronics Engineering department attended

- NPTEL FDP on 'Introduction to Internet of Things' organized by NPTEL through MOOCs mode from July to October 2024 (12 Weeks).
- FDP on 'Advance Trends and Technologies in Power Engineering and Renewable Energy Systems' organized by MLR Institute of Technology, Hyderabad from 26th to 31st August 2024.
- FDP on 'Emerging Trends in Advanced Engineering Research : Opportunities and Challenges' organized by Sree Sakthi Engineering College, Coimbatore from 1st to 6th July 2024.

Mr.K.Mohanraj, AP, Electrical and Electronics Engineering department attended

- AICTE NITTR FDP on 'Enhancing Research Capabilities for Academic Career Progression' organized by KNCET in association with NITTR, Chandigarh from 23rd to 27th September 2024.
- FDP on 'Emerging Trends in Advanced Engineering Research : Opportunities and Challenges' organized by Sree Sakthi Engineering College, Coimbatore from 1st to 6th July 2024.

Mr.S.Ragul, AP, Electrical and Electronics Engineering department attended

- AICTE NITTR FDP on 'Enhancing Research Capabilities for Academic Career Progression' organized by KNCET in association with NITTR, Chandigarh from 23rd to 27th September 2024.
- FDP on 'Emerging Trends in Advance Power Engineering Applications' organized by Paavai Engineering College, Namakkal from 22nd to 26th July 2024.
- FDP on 'Emerging Trends in Advanced Engineering Research : Opportunities and Challenges' organized by Sree Sakthi Engineering College, Coimbatore from 1st to 6th July 2024.

Mrs.R.Deebika, AP, Electrical and Electronics Engineering department attended

- Innovation Ambassador (IA) training 'Advanced Level' (16 sessions / 30 hours) conducted in online mode by MoE's Innovation Cell & AICTE, during IIC calendar year 2024, September 2024.
- ATAL FDP on 'Hybrid Electric Vehicles : Empowering Sustainable Mobility through Innovative Engineering' organized by Mahendra Institute of Technology from 9th to 24th August 2024.

- NPTEL FDP on "Introduction to Industry 4.0 and Industrial Internet of Things" organized by NPTEL through MOOCs mode from July to October 2024 (12 Weeks).

- Innovation Ambassador (IA) training 'Foundation Level' (16 sessions / 30 hours) organized by MoE's Innovation Cell & AICTE, during IIC calendar year, July 2024.

- FDP on "Emerging Trends in Advance Power Engineering Applications" organized by Paavai Engineering College, Namakkal from 22nd to 26th July 2024.

Mrs.S.Revathi, AP, Electrical and Electronics Engineering department attended

- AICTE NITTR FDP on 'Outcome based Education and Accreditation Process' organized by KNCET in association with NITTR, Chandigarh from 25th to 29th November 2024.
- NPTEL FDP on 'Introduction to Internet of Things' organized by NPTEL through MOOCs mode from July to October 2024 (12 Weeks).
- ATAL FDP on 'Artificial Intelligence's Potential Applications in Energy Management and Energy Storage Systems : A Technological Revolution' organized by K.S.R College of Engineering from 9th to 14th September 2024.

- FDP on 'Advance Trends and Technologies in Power Engineering and Renewable Energy Systems' organized by MLR Institute of Technology, Hyderabad from 26th to 31st August 2024.

Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering department attended

- NPTEL FDP on 'Introduction to Industry 4.0 and Industrial Internet of Things' organized by NPTEL through MOOCs mode from July to October 2024 (12 Weeks).

- AICTE NITTR FDP on 'Enhancing Research Capabilities for Academic Career Progression' organized by KNCET in association with NITTR, Chandigarh from 23rd to 27th September 2024.

- FDP on 'Emerging Trends in Advance Power Engineering Applications' organized by Paavai Engineering College, Namakkal from 22nd to 26th July 2024.

- Innovation Ambassador (IA) training 'Foundation Level' (16 sessions /30 hours) organized by MoE's Innovation Cell & AICTE, during IIC calendar year, July 2024.

Mr.C.Gowrishankar, AP, Electrical and Electronics Engineering department attended

- NPTEL Faculty Development Programme on 'Introduction to Industry 4.0 and Industrial Internet of Things' organized by NPTEL through MOOCs mode from July to October, 2024 (12 Weeks)

- AICTE NITTR FDP on 'Enhancing Research Capabilities for Academic Career Progression' organized by KNCET in association with NITTR, Chandigarh from 23rd to 27th September 2024.

- FDP on 'Emerging Trends in Advance Power Engineering Applications' organized by Paavai Engineering College, Namakkal from 22nd to 26th July, 2024.

Mr.R.Manikandan, AP, Electrical and Electronics Engineering department attended

- FDP on 'Emerging Trends in Advanced Engineering Research : Opportunities and Challenges' organized by Sree Sakthi Engineering College, Coimbatore from 1st to 6th July, 2024.

Value Added Course

- VACEE16 – MBD Application in Power Systems
- VACEE08 - PLC Programming for Manufacturing Industry
- VACAD03 – CORE JAVA (Conducted by AIDS)

Students Contribution

NPTEL Completed

- NPTEL Course on 'Introduction to Industry 4.0 and Industrial Internet of Things' was completed by 29 students of IV year Electrical and Electronics Engineering during July to October 2024.

- NPTEL Course on 'Introduction to Industry 4.0 and Industrial Internet of Things' was completed by 59 students of III year Electrical and Electronics Engineering during July to October 2024.

- NPTEL Course on 'Introduction to Internet of Things' was completed by 50 students of II year Electrical and Electronics Engineering during July to October 2024.

Prize Won

- N.Deepika, T.Sujitha and G.Jayasree of II year Electrical and Electronics Engineering department won First Prize in "Wordchums" at National Level Technical Symposium, B'ELIEZ 2K24 held by Mahendra College of Engineering, Salem on 18th October 2024.

- J.Mouleeshwaran, S.Sakthivel and J.H.Ashwin of III year Electrical and Electronics Engineering department won Third Prize in "Wordchums" at National Level Technical Symposium, B'ELIEZ 2K24 held by Mahendra College of Engineering, Salem on 18th October 2024.

- S.Samadhushek, A.Muzamil and T.Ananthkumar of III year Electrical and Electronics Engineering department won Second Prize in "Wordchums" at National Level Technical Symposium, B'ELIEZ 2K24 held by Mahendra College of Engineering, Salem on 18th October 2024.

- M.Vignesh of II year Electrical and Electronics Engineering department won Second Prize in "Wordchums" at National Level Technical Symposium, B'ELIEZ 2K24 held by Mahendra College of Engineering, Salem on 18th October 2024.

- M.Harish and T.Kishore of III year Electrical and Electronics Engineering department won Third Prize in "Poster Presentation" at National Level Technical Symposium, SCIENSEA'24 held by Kongu Engineering College, Erode on 05th October 2024.

- A.Sam and M.Ishaq of III year Electrical and Electronics Engineering department won Second Prize in "Technical Event - Circuit Debugging" at State Level Technical Symposium, e-Mission 2K24 held by M.A.M College of Engineering, Trichy on 25th September 2024.

- A.Bharath and A.Muzamil of III year Electrical and Electronics Engineering department won Third Prize in "Non-Technical Event - Funny Room" at National Level Technical Symposium, XLARATZ-24 held by Salem College of Engineering and Technology, Salem on 05th September 2024.

Paper Presentation

1. C.Kokilavani of III Year, S.Sudhakar & S.Meiyarasu of IV Year EEE Department presented a paper on 'Embedded System and Automation' in a National Level Technical Symposium - GYAAN - 2K24 at J.J.College of Engineering and Technology, Trichy on 13th November 2024.

2. L.Devakumar, A.Santhoshkumar & P.Aadhikesavan of IV Year EEE Department presented a paper on 'Artificial Hand Using Embedded System' in a National Level Technical Symposium - B'ELIEZ 2K24 at Mahendra College of Engineering, Salem on 18th October 2024.

3. K.Srinitha & V.Dharshini of IV Year EEE Department presented a paper on 'AI in Autonomous Vehicle' in a National Level Technical Symposium at Gnanamani College of Technology, Namakkal on 9th October 2024.

4. T.Anushiya of IV Year EEE Department presented a paper on 'A New Revolutionary System to Detect Human Beings' in a National Level Technical Symposium at Gnanamani College of Technology, Namakkal on 9th October 2024.

5. A.Adhithya & D.Arun of II Year EEE Department presented a paper on 'E- Vehicle' in a National Level Technical Symposium at Gnanamani College of Technology, Namakkal on 9th October 2024.

6. T.Sujitha of II Year EEE Department presented a paper on 'Artificial Hand Using Embedded System' in a National Level Technical Symposium, TECHATHON'24 at Sri Ramakrishna Institute of Technology, Coimbatore on 9th October 2024.

7. N.Deepika, S.Bavanipriya & P.R.Jeeviga of II Year EEE Department presented a paper on 'Modern Lens Technology' in a National Level Technical Symposium, TECHATHON'24 at Sri Ramakrishna Institute of Technology, Coimbatore on 9th October 2024.

8. S.A.Dharanidharan of II Year EEE Department presented a paper on 'AR and VR Technology' in a National Level Technical Symposium, Srishti 2K24 at PSG College of Technology, Coimbatore on 5th & 6th October 2024.

9. M.Vignesh & M.Sakthivel of II Year EEE Department presented a paper on 'Industrial Automation 4.0' in a National Level Technical Symposium, Srishti 2K24 at PSG College of Technology, Coimbatore on 5th & 6th October 2024.

10. S.Divya & P.Kesavathini of II Year EEE Department presented a paper on 'Hybrid Electric Vehicle' in a National Level Technical Symposium, ELEKTROIKA - 2K24 at Velalar College of Engineering, Erode on 5th October 2024.

11. M.Radha & S.Praveena of II Year EEE Department presented a paper on 'Internet of Things' in a National Level Technical Symposium, ELEKTROIKA - 2K24 at Velalar College of Engineering, Erode on 5th October 2024.

12. S.Kowsalya & T.Riyashini of II Year EEE Department presented a paper on 'Embedded System' in a National Level Technical Symposium, ELEKTROIKA - 2K24 at Velalar College of Engineering, Erode on 5th October 2024.

13. R.Dharshana & M.Sathiya Priya of IV Year EEE Department presented a paper on 'Hybrid Vehicle' in a National Level Technical Symposium, ELEKTROIKA - 2K24 at Velalar College of Engineering, Erode on 5th October 2024.

14. V.Akshaya & S.Gayathiri of IV Year EEE Department presented a paper on 'Artificial Intelligence in Power System' in a National Level Technical Symposium, ELEKTROIKA - 2K24 at Velalar College of Engineering, Erode on 5th October 2024.

15. N.Mahalakshmi & N.Vijayadharshini of IV Year EEE Department presented a paper on 'Renewable Energy Integration' in a National Level Technical Symposium, ELEKTROIKA - 2K24 at Velalar College of Engineering, Erode on 5th October 2024.

16. M.Priyadharshini & R.Subhashini of IV Year EEE Department presented a paper on 'Artificial Intelligence in Drone Technology' in a National Level Technical Symposium, ELEKTROIKA - 2K24 at Velalar College of Engineering, Erode on 5th October 2024.

17. V.Manoj, C.Deebak Kumar & I.Athithya of II Year EEE Department presented a paper on 'Water meter' in a National Level Technical Symposium, SCIENSEA'24 at Kongu Engineering College, Erode on 5th October 2024.

18. I.Gobikrishnan & K.Manoj Kumar of III Year EEE Department presented a paper on 'Wireless Power Transmission' in a National Level Technical Symposium, SCIENSEA'24 at Kongu Engineering College, Erode on 5th October 2024.

19. K.Jayasyra & R.Karthikraja of III Year EEE Department presented a paper on 'Automated Temperature Control Fan Using Raspberry Pi' in a National Level Technical Symposium - Spectra Genix' 24 at KGiSL Institute of Technology, Coimbatore on 1st October 2024.

20. A.Muzamil & R.Manoj of III Year EEE Department presented a paper on 'IoT Enabled Wireless Electronics Notice Board Using Raspberry Pi' in a National Level Technical Symposium - Spectra Genix'24 at KGiSL Institute of Technology, Coimbatore on 1st October 2024.

21. R.Arunkumar & D.Vinothkumar of III Year EEE Department presented a paper on 'Revolution and Uses of Paper Battery' in a National Level Technical Symposium - GRID 2K24 at K.S.R. College of Engineering, Namakkal on 28th September 2024.

22. S.Pradeep Kumar & S.Samadhushek of III Year EEE Department presented a paper on 'Home Automation Using IoT' in a National Level Technical Symposium - GRID2K24 at K.S.R. College of Engineering, Namakkal on 28th September 2024.

23. G.Naveen Kumar & S.Ajay of III Year EEE Department presented a paper on 'Vibration Analysis of Electrical Motor Using ESP8266G Vibration Sensor' in a National Level Technical Symposium- GRID 2K24 at K.S.R. College of Engineering, Namakkal on 28th September 2024.

24. K.Rajalakshmi & Aiswarya Sreejith of II Year EEE Department presented a paper on 'Power Generation Using Renewable Energy Source' in a National Level Technical Symposium- GRID 2K24 at K.S.R. College of Engineering, Namakkal on 28th September 2024.

25. G.Subaparameshwari of II Year EEE Department presented a paper on 'Extended Reality' in a National Level Technical Symposium - GRID 2K24 at K.S.R. College of Engineering, Namakkal on 28th September 2024.

26. C.Kokilavani & R.Nithisha of III Year EEE Department presented a paper on 'Generative AI' in a Spring Fest 2K24 at K.S.R. College of Engineering, Namakkal on 27th September 2024.

27. A.Adhithya & P.K.Logesh Vijay of II Year EEE Department presented a paper on 'E-Vehicle' in a National Level Symposium TECHNO AVENIR - 2K24 at Roever Engineering College, Perambalur on 27th September 2024.

28. M.Thirukumaran, M.Giriraj & S.Vijayakanth of II Year EEE Department presented a paper on 'Nano Technology' in a National Level Symposium Barnstromz 2k'24 at Hindusthan Institute of Technology, Coimbatore on 25th September 2024.

29. I.Gopikrishnan, P.Akilan & P.Jegan of III Year EEE Department presented a paper on 'Wireless Transmission for Satellite' in a National Level Symposium Barnstromz 2k'24 at Hindusthan Institute of Technology, Coimbatore on 25th September 2024.

30. G.Nickson, S.Abishek & R.Kishore of III Year EEE Department presented a paper on 'Robotics Arm' in a National Level Symposium Barnstromz 2k'24 at Hindusthan Institute of Technology, Coimbatore on 25th September 2024.

31. B.Eswar, A.Selvaganesh & R.Gokul of II Year EEE Department presented a paper on 'Internet of Things' in a e-Mission 2k24 State Level Technical Symposium at M.A.M College of Engineering, Trichy on 25th September 2024.

32. J.Filbert Joewinston, S.Sudhakar & S.Yuvabalan of II Year EEE Department presented a paper on 'Sensor Technology' in a e-Mission 2k24 State Level Technical Symposium at M.A.M College of Engineering, Trichy on 25th September 2024.

33. K.Manikanda Prabu, S.Gokul & R.Sri Hari Prasath of III Year EEE Department presented a paper on 'Embedded System and Automation' in a e-Mission 2k24 State Level Technical Symposium at M.A.M College of Engineering, Trichy on 25th September 2024.

34. V.Kamal Govindhan, M.Ishaq & A.Sam of III Year EEE Department presented a paper on 'Optical Fiber Communication' in a e-Mission 2k24 State Level Technical Symposium at M.A.M College of Engineering, Trichy on 25th September 2024.

35. S.Sakthivel & K.Monish of III Year EEE Department presented a paper on 'Smart Grid Connectivity' in a National Level Technical Symposium-TECHSYM SARYU - 24 at Sengunthar Engineering College, Tiruchengode on 20th & 21st September 2024.

36. R.Ganeshram & J.Mouleeshwaran of III Year EEE Department presented a paper on 'Embedded Systems' in a National Level Technical Symposium-TECHSYM SARYU - 24 at Sengunthar Engineering College, Tiruchengode on 20th & 21st September 2024.

37. V.Sivakumar & S.Selvakumar of III Year EEE Department presented a paper on 'Regenerative Breaking System' in a National Level Technical Symposium-TECHSYM SARYU- 24 at Sengunthar Engineering College, Tiruchengode on 20th & 21st September 2024.

38. A.Hariharan, B.Hariprasath & A.Jacob of II Year EEE Department presented a paper on 'Solar Energy' in a National Level Renewable Energy Day Celebration 2K24 at SSM College of Engineering, Namakkal on 20th September 2024.

39. S.Pooja & K.Sona of III Year EEE Department presented a paper on 'A New Revolution System to Detect Human Beings Buried Under Earthquake Rubble' in a National Level Technical Symposium ECLATZA'24 at Hindusthan College of Engineering, Coimbatore on 19th September 2024.

40. S.Sakthideva & G.Vishnukumar of III Year EEE Department presented a paper on 'Wireless Power Transfer' in a National Level Students' Technical Symposium at Velalar College of Engineering and Technology, Erode on 13th September 2024.

41. G.Devaprakash & E.Saran of III Year EEE Department presented a paper on 'Paper Battery' in a National Level Students' Technical Symposium at Velalar College of Engineering and Technology, Erode on 13th September 2024.

42. K.Gokulnath & M.Harish of III Year EEE Department presented a paper on 'IV Bag Monitoring and Alert System Based on IoT' in a National Level Students' Technical Symposium at Velalar College of Engineering and Technology, Erode on 13th September 2024.

43. A.Bharath & A.Muzamil of III Year EEE Department presented a paper on 'Embedded System' in a National Level Technical Symposium, XLARATZ-24 at Salem College of Engineering and Technology, Salem on 05th September 2024.

44. T.Ananth Kumar & R.Hariharan of III Year EEE Department presented a paper on 'Internet of Things' in a National Level Technical Symposium, XLARATZ-24 at Salem College of Engineering and Technology, Salem on 05th September 2024.

45. J.H.Ashwin & K.Manoj Kumar of III Year EEE Department presented a paper on 'Autonomous Drones for Agriculture' in a National Level Technical Symposium, XLARATZ-24 at Salem College of Engineering and Technology, Salem on 05th September 2024.

46. G.R.Gokulavasan & S.A.Dharanidharan of II Year EEE Department presented a paper on 'Smart Dustbin Using IoT' in a National Level Techfest - AIOTA 2.0 at Sri Sairam Engineering College, Chennai on 04th September 2024.

Student Participation

Name of the Event	Number of Students Attended
External Seminar	49
External Workshop	85
Internal Workshop	8
Technical & Non-Technical events	59

Internship

- The Salem Co-Op. Sugar Mills Ltd., Namakkal.
- E.I.D.- Parry (India) Limited, Karur.
- Steel Authority Of India Limited, Salem.
- Tamilnadu Newsprint And Papers Limited, Trichy.
- Sakthi Electricals, Sidco Industrial Estate, Trichy.
- Tamil Nadu Newsprint And Papers Limited, Karur.
- Tenneco Automotive India Pvt.Ltd, Hosur.
- Weg Industries (India) Private Limited, Hosur.
- Woosu Automotive India Pvt. Ltd, Thiruvallur.
- Alten Power Pvt Ltd, Sivagangai.
- Hitaje (India) Pumps Division, Coimbatore.
- A.T. Industries, Coimbatore.
- Southern Railway, Electric Loco Shed, Erode.
- RnA Designs, Ariyalur.
- Kothari Sugars And Chemicals Limited, Trichy.

Industrial Visit

- Kadamparai Power House, Coimbatore.
- Mettur Thermal Power Plant, Salem

IIT SPOKEN TUTORIAL :

62 students from Final Year EEE department completed IIT Spoken Tutorial on "JAVA".

55 students from Third Year EEE department completed IIT Spoken Tutorial on "ARDUINO".

59 students from Second Year EEE department completed IIT Spoken Tutorial ON "PYTHON 3.4.3"

ANTIRAGGING WEEK CELEBRATIONS

Kongunadu College of Engineering and Technology has conducted 'Antiragging Week Celebrations', from 12th to 18th August 2024 for the academic year of 2024-2025. In view of Antiragging Week Celebrations, the Video Presentation, Essay Writing, Poster Design, Speech Competition and Flag Hosting and Pledge were conducted.



Hackathon

• A.Manoj, IV year/EEE along with Third year IT students M.Hariharan and T.Vignesh participated in India International Science Festival (IISF-2024) Hackathon at IIT Guwahati from 30th November 2024 to 3rd December 2024 for the project titled 'AI-Driven Injury Prediction Detection and Management System'.



• T.Abisheik, P.Anandan, A.Manoj, M.Sowmiya, IV year of EEE, Shivani (IT/IV Year) and S.Praveen (AD/IV Year) along with Dr.T.Sengolrajan, Associate Professor/EEE has participated in the Hardware Edition, Grand Finale of 7th edition of Smart India Hackathon (SIH) 2024 from 11th to 15th December 2024 at MIT ADT University, Pune for the Problem Statement, 'Development of Portable EMI/EMC, induction measurement Instruments'.



• T.Abisheik, M.Sowmiya, P.Anandan, S.Kavya and A.Manoj of IV year EEE has participated in 48 Hrs Hack \$ Day Edition 1 of OX.Day Global Deep-Tech Hackathon at Pondicherry from Sri Manakula Vinayagar Engineering College, Puducherry from 28th to 30th December 2024.

• S.Pooja, P.Vinothini, S.Maheshwari, S.Harshini and V.Kokila of III year EEE has participated in 48 Hrs Hack \$ Day Edition 1 of OX.Day Global Deep-Tech Hackathon at Pondicherry from Sri Manakula Vinayagar Engineering College, Puducherry from 28th to 30th December 2024.



LIST OF TOPPERS APRIL / MAY - 2024 (IV Year/ VIII Sem)

RANK 1



A.SANFARRENOSHA
[9.526 SGPA]



A.SWETHA
[9.526 SGPA]

RANK 2



V.NANDHAKISHORE
[9.368 SGPA]



S.VIGNESH
[9.368 SGPA]

RANK 3



M.KEERTHANA
[9.211 SGPA]



D.PRASANTH
[9.211 SGPA]



S.T.SUGITHA
[9.211 SGPA]

(III Year/ VI Sem)

RANK 1



C.KEERTHANA SHIVANI
[10.000 SGPA]

RANK 2



V.VIJIKA
[9.789 SGPA]

RANK 3



S.AKASH
[9.632 SGPA]

(II Year/ IV Sem)

RANK 1



P.VINOTHINI
[9.304 SGPA]

RANK 2



S.K.DHARSHANA
[8.783 SGPA]

RANK 2



C.KOKILAVANI
[8.783 SGPA]

RANK 3



S.MAHESHWARI
[8.696 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:

PO 1 : Engineering Knowledge : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2 : Problem Analysis : Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3 : Design / Development of Solutions : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4 : Conduct Investigations of Complex Problems : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5 : 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.

PO 6 : The Engineer and Society : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7 : Environment and Sustainability : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8 : Ethics : Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9 : Individual and Team Work : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10 : Communication : Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11 : Project Management and Finance : Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12 : Life-Long Learning : Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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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Kongunadu

College of Engineering & Technology
[Autonomous]

Namakkal - Trichy Main Road, Thottiam, Trichy (Dt) 621 215, Tamilnadu.

Mob : 80125 05000, 80125 05011, 80125 05051

E-mail : admission@kongunadu.ac.in / hodeee@kongunadu.ac.in

www.kongunadu.ac.in