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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

The department advisory committee for the odd semester 2023-24 held on 17.06.2023 through online platform Google Meet. Dr.PSK.R.Periaswamy, Chairman, Kongunadu Institutions, Dr.R.Asokan, Principal, Dr.J.Yogapriya, Dean (R & D), Dr.G.Saravana Illango, Professor, Department of EEE, National Institute of Technology, Tiruchirappalli as Academic Expert Member, Mr.R.Balaji, Chief Executive, Navitas Smart Energy Solutions, Salem as Industry Expert, Mr.K.Harikaran, Technical Assistant, Palavadi 400/230-110 KV Substation (Dharmapuri), Transmission Corporation Limited (TANTRASCO - TNEB), Tamilnadu as Alumni Representative, Mr.J.Balaji, BT Assistant, Government Higher Secondary School, Paithamparai, Thathiangarpet block, Tiruchirappalli as Employers/Stakeholders nominee, Student nominees of II, III & IV year, Dr.P.Arul, Professor/EEE & CoE as Chairperson, Dr.R.Shankar, Professor & HoD/EEE as Programme Co-ordinator, Dr.T.Sengolrajan, ASP/EEE and other senior faculty members were involved in discussion of department achievements in the Even Semester followed by the proposed activity for the Odd semester during the Academic Year 2023-2024.

### International Conference

4<sup>th</sup> International Conference on 'Innovations in Electrical, Information and Communication Engineering' (ICIEICE'2023) was organized in online mode on 21<sup>st</sup> & 22<sup>nd</sup> April 2023. The keynote speaker and the chief guest was Dr.L.Agilandeewari, Professor, Department of Software Systems and Engineering, School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, Tamilnadu.



### Parent – Teachers Meet

Parent – Teachers Meet was conducted for III & II year on 14<sup>th</sup> & 16<sup>th</sup> March 2023 respectively. The prizes has been awarded to the students and staff members for their best performance.

Triofest-2023 was conducted for IV year on 21<sup>st</sup> April 2023. Mr.Charles Godwin P, HR leader, Zoho Corporation and Mr.Senthil Rajamarthandan, Senior Program Director, Cognizant were the chief guest. The prizes and offer letters 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)

- Seminar on 'Success Story of Agropreneur' was organized on 9<sup>th</sup> February 2023. The resource person was Mr.S.Duraiswamy, B.Sc, Farmer & Innovator, M/S. Balaram Agro, Karur.



- Webinar on 'Live Streaming of IoT Device Messages' was organized on 20<sup>th</sup> February 2023. The resource person was Mr.R.Arunkelam, Senior Analyst, Caterpillar Inc, Chennai.

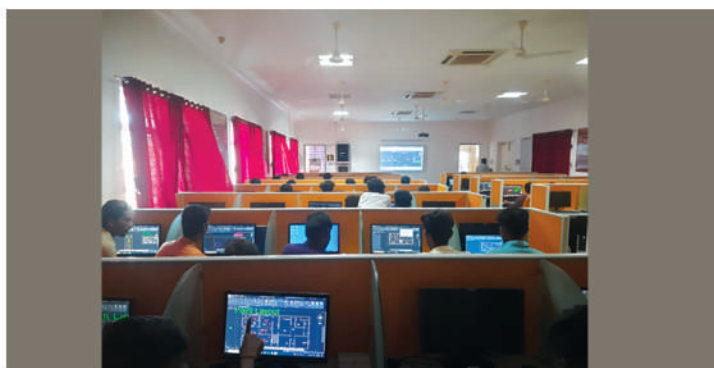
- 24 Hours Hackathon and Interdepartmental Talent show 'ELECTRO BLITZ-2K23' was organized on 10<sup>th</sup> & 11<sup>th</sup> March 2023. The Chief guest was Dr.PSK.R.Periaswamy, Chairman, Kongunadu Institutions, Thottiam, Trichy(D.T).



- Webinar on 'The Filing Procedure of Patents' was organized on 10<sup>th</sup> March 2023. The resource person was Mrs. Savithri Suresh Babu, Senior Associate, A.K.Mylsamy & Associates, Chennai.

- Seminar on 'R & D Technological Interventions on Coir for Sustainable Development' was organized on 27<sup>th</sup> March 2023. The resource person was Mr.D.Kuppuramu, Coir Board, Ministry of MSME, Government of India.

- Two Days Workshop on 'MEP - ELECTRICAL' was organized on 29<sup>th</sup> & 30<sup>th</sup> March 2023. The resource person was Mr.V.Muthu Prakash, MEP - Training Executive, Innovation Engineering Solution, Chennai.



- Seminar on 'Recent Trends in Artificial Intelligence' was organized on 11<sup>th</sup> May 2023. The resource person was Dr.A.Athif Shah, Chief Executive Officer, ABE Intelligence Groups, Ashok Nagar, Chennai.

### Mini Project Expo

- Mini Project Expo for Even Semester 2022 - 2023 was conducted for internal participant on 16.05.2023. The student's projects have been examined and appreciated for their creative and innovative skills.



### Energy Club

- Guest Lecture on 'Smart Energy Management System' was organized on 11<sup>th</sup> March 2023. The resource person was Er.R.Balaji, Chief Executive, Navitas Smart Energy Solutions, Salem.



### Tamil Mandram

- Conducted Guest lecture on "கம்பரும் கவிநயமும்" by Dr.C.P.Kamatchi, Lyricist, Namakkal in Tamil Mandram dated on 4<sup>th</sup> March 2023 at Kongunadu College of Engineering and Technology, Trichy.



### Centre for Excellence – Industrial Automation

- Webinar on 'Recent Trends in Industry 4.0' was organized on 20<sup>th</sup> February 2023. The chief guest was Mr.Vignesh Ramados, Technical Lead, AXIS Global Automation, Chennai.





- One Day Workshop on 'Emerging Trends in Industrial Automation using PLC & SCADA' was organized on 18<sup>th</sup> April 2023. The chief guest was Mr.K.Sathyanarayanan, Senior Project Engineer, Basell Automation System Private Limited, No: 66, Krishna Industrial Estate, Chennai - 600095.



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

- Workshop on 'Recent Trends in Internet of Things' was organized on 17<sup>th</sup> April 2023. The resource person was Mr.J.Karthikeyan, Assistant Professor, Department of Electrical and Electronics Engineering, Kongunadu College of Engineering and Technology, Trichy.

## Staff Contribution

## Staff Achievements and Awards

- Mr.T.Muthukumar, AP, Electrical and Electronics Engineering completed NPTEL course on 'Biomass Conversion and Biorefinery' and received Elite certificate during January 2023 to April 2023.

- Mrs.S.Revathi, AP, Electrical and Electronics Engineering completed NPTEL course on 'Biomass Conversion and Biorefinery' and received Elite certificate during January 2023 to April 2023.

- Mr.K.Karthik, AP, Electrical and Electronics Engineering completed NPTEL course on 'Biomass Conversion and Biorefinery' during January 2023 to April 2023.

- Mr.S.Ragul, AP, Electrical and Electronics Engineering completed NPTEL course on 'Biomass Conversion and Biorefinery' during January 2023 to April 2023.

- Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering completed NPTEL course on 'Biomass Conversion and Biorefinery' during January 2023 to April 2023.

## Staff as a resource person

- Mr.T.Rajamanikandan, AP/EEE & Head (IPR & Product Development) acted as an mentor for regional level boot camp on 'School Innovation Development Project (SIDP 2022-23)' at Anna University, BIT Campus, Trichy on 24<sup>th</sup> January 2023.

- Mr.S.Arun, AP/EEE acted as Jury for National Level Technical Symposium on 'Tech Fest 2K23' at Er.Perumal Manimekalai Polytechnic College, Hosur on 7<sup>th</sup> February 2023.

- Dr.T.Sengolrajan, ASP/EEE acted as Judge for National Level Technical Symposium on 'KONGUNADU FEST 2023' at Kongunadu Polytechnic college, Trichy on 4<sup>th</sup> March 2023.

## Faculty Industrial Training

- Dr.T.Sengolrajan, ASP & Mr.T.Muthukumar, AP, Electrical and Electronics Engineering has undergone the industrial training at NLC Tamilnadu Power Limited, Tuticorin from 29<sup>th</sup> December to 31<sup>st</sup> December 2022.

- Mr.S.Arun & Mr.J.Karthikeyan, AP, Electrical and Electronics Engineering has undergone the industrial training at M/s.Kothari Sugars and Chemicals Limited, Trichy from 29<sup>th</sup> December to 31<sup>st</sup> December 2022.

- Mr.R.Gopalakrishnan, & Mr.S.Ragul, AP, Electrical and Electronics Engineering has undergone the industrial training at The Salem Co-operative Sugars Mills Limited, Namakkal from 29<sup>th</sup> December to 31<sup>st</sup> December 2022.

- Mrs.S.Revathi, AP, Electrical and Electronics Engineering has undergone the industrial training at Padmavahini Transformers Private Limited, Coimbatore from 1<sup>st</sup> January to 4<sup>th</sup> January 2023.

- Mr.P.Tamilnesan, AP, Electrical and Electronics Engineering has undergone the industrial training at Vetrivel Engineering Enterprises, Karur from 11<sup>th</sup> January to 13<sup>th</sup> January 2023.

- Mr.K.Mohanraj & Mr.K.Karthik, AP, Electrical and Electronics Engineering has undergone the industrial training at Vetrivel Engineering Enterprises, Karur from 12<sup>th</sup> January to 14<sup>th</sup> January 2023.

- Mr.C.Gowrishankar, AP, Electrical and Electronics Engineering has undergone the industrial training at Arul Jothi Electric Company, Salem from 13<sup>th</sup>, 17<sup>th</sup> & 18<sup>th</sup> January 2023.

## Publication of Book

- Dr.T.Sengolrajan and Mr.A.Sampath, Sensors and Transducers, Sri Krishna Hitech Publishing Company Pvt Ltd, Chennai, ISBN No: 978-93-93808-12-7, 1<sup>st</sup> Edition, December 2022.

- Dr.T.Sengolrajan, Mr.P.Tamilnesan and Mr.J.Karthikeyan, Embedded Systems and Industrial Automation, The Charulatha Publications, Chennai, ISBN No: 978-81-19056-51-4, June 2023.

- Mr.R.Gopalakrishnan and Mrs.S.Revathi, Power System Transients, The Charulatha Publications, Chennai, ISBN No: 978-81-19056-36-1, June 2023.

- Dr.R.Shankar, Discrete – Time Signal Processing, Chess Educational Publishers, Chennai & Kerala, ISBN No: 978-93-89190-1-4, 2023.

## Publication in Journals

- Annapandi.P, Ramya.R, Kotaiah.N.C, Rajesh.P and Subramanian Arun, 'Optimal energy Management System for the design of Off grid hybrid renewable energy Systems: A hybrid technique', Journal of Intelligent & Fuzzy Systems, ISSN:1064-1246, Vol.44, No.2, pp.2593-2614, DOI:10.3233 / JIFS-221176, SCIE, I.F:1.737, January2023.

- Partheeban.M, Ramachandran.S, Raja.M, Gowrishankar.C, Deivamani.G and Rathinam, 'Certain Analyses on Static Compensated Voltage and Frequency Modulation in the Wind Energy System using the Solar PV Interface QZSI Impedance Source Network', Mathematical Statistician and Engineering Applications, ISSN:2094-0343 / 2326-9865, Vol.72, No.1, pp.279-295, February 2023, Scopus Indexed.

- Dr.P.Arul, S.Gokul, V.Dhanush, M.Prasanth and S.Harirajaram, 'Smart PV based Off Grid System', Journal of Emerging Technologies and Innovative Research (JETIR), ISSN:2349-5162, Vol.10, No.3, pp.275-280, March 2023.



- Dr.P.Arul and R.Gopalakrishnan, 'Three-level Inverter with LSMC-SVPWM Control in Power Quality Control of a Solar Power Generator', Journal of Emerging Technologies and Innovative Research (JETIR), ISSN: 2349-5162, Vol.10, No.3, pp.620-628, March 2023.

- Mr.S.Arun, Dr.P.Arul, K.Suganeshwari, V.Myuri, P.Meera and R.Gunavarshini, 'IoT Enabled Attendance Monitoring System for Gardeners using RFID', International Journal of Enhanced Research in Science, Technology & Engineering, ISSN: 2319-7463, Vol.12, No.3, pp.85-89, March 2023.

- Arul.P, Vivek.C, Balraj.B and Sankaran.A, 'Opto electronic and Hydrogen Gas-Sensing Applications of Ultrasonically Fabricated ZnO-Au Nanoparticle - Decorated MWCNTs', Journal of Electronic Materials, ISSN:0361-5235, Springer, <https://doi.org/10.1007/s11664-023-10495-7>, May 2023, SCI, I.F:1.938.

- T.Sengolrajan, C.Kalaivani, J.Ashok, A.Manikandan, 'A Novel Design of 9 Level Cascade Multi-level inverter for Decoupled Double Synchronous Reference Frame in State Delay Controller', Journal of Engineering Research, ISSN: 2307-1877, June 2023 <https://doi.org/10.1016/j.jer.2023.100106>, SCIE.

- P.S.Raghavendran, S.Ragul, R.Asokan, Ashok Kumar Loganathan, Suresh Muthusamy, Om Prava Mishra, Ponarun Ramamoorthi and Suma Christal Mary Sundararajan (2023), "A new method for chest x-ray images categorization using transfer learning and Covid Net-2020 employing convolution neural network" in Soft Computing, <https://doi.org/10.1007/s00500-023-08874-7>, Springer, SCIE, IF:4.1, 4<sup>th</sup> July 2023.

## Publication in Conference

1. T.Jayakumar, P.Ponmurugan, B.Karthi, K.C.Anandhan, S.Ragul, Neelam Sanjeev Kumar and D.Rajkumar, 'Review of Hybrid Wind-Solar PV Technology in the Generation of Electricity' International Conference on 'Computer Communication and Informatics' at Sri Shakthi Institute of Engineering and Technology, Coimbatore on 23<sup>rd</sup> to 25<sup>th</sup> January 2023.

2. G.Pradeepkumar, M.Prabu, Manimuthu Ayyannan, V.G.Pratheep, Revathi.S and Neelam Sanjeev Kumar, 'Healing and Preventing Trees from Beetles using Pesticides' International Conference on 'Computer Communication and Informatics' at Sri Shakthi Institute of Engineering and Technology, Coimbatore on 23<sup>rd</sup> to 25<sup>th</sup> January 2023.

3. G.Pradeepkumar, T.Monika, C.Gowrishankar, C.Rohith Bhat, V.Gowrishankar and M.Senthilkumar, 'An IoT based Low Cost E-Parking System in Smart Cities' International Conference on Electronics and Renewable Systems (ICEARS 2023) at St.Mother Theresa Engineering College, Tuticorin on 02<sup>nd</sup> to 04<sup>th</sup> March 2023.

4. T.Sengolrajan, S.Jawahar, M.Shankar, P.Jeevarathinam and G.Paveen, 'Development of Automatic Seed Sowing and Counting Machine', International Conference on Recent Trends in science, Engineering and Technology (KIRSET 2023) at Kamaraj College of Engineering and Technology, Virudhunagar on 09<sup>th</sup> to 10<sup>th</sup> March 2023.

5. R.Manikandan, P.Karthikeyan, K.R.Srinivasan and P.Premkumar, 'Design and Implementation of Smart Control Electrical Appliances for Institutional Building', International Conference on Recent Trends in science, Engineering and Technology (KIRSET 2023) at Kamaraj College of Engineering and Technology, Virudhunagar on 09<sup>th</sup> to 10<sup>th</sup> March 2023.

6. J.Karthikeyan, M.Mohammed Mydeen, S.Purushothaman and C.Nithish, 'Design and Implementation of Smart Board system' International Conference on Recent Trends in Computer Communication and Business Management (ICRTCCB 2023) at Sethu Institute of Technology, Virudhunagar on 10<sup>th</sup> March 2023.

7. C.Gowrishankar, N.Divyabharathi, K.Lalithapriya, Pooja.S and A.Srilekha, 'Modified Luo Based Boost Converter with Single Input and Multi Output Topology' International Conference on Recent Trends in Computer Communication and Business Management (ICRTCCB 2023) at Sethu Institute of Technology, Virudhunagar on 10<sup>th</sup> March 2023.

8. P.Tamilnesan, C.Chowmya, R.Dharshini and M.Shalini, 'AI Empowered MPPT Technique in Solar Power Generation' International Conference on Recent Trends in Computer Communication and Business Management (ICRTCCB 2023) at Sethu Institute of Technology, Virudhunagar on 10<sup>th</sup> March 2023.

9. K.Karthik, M.Saravana Kumar, G.Kamalesh, S.Praveen and S.Monish, 'Modelling and Control of Heat Distribution in a Powder Bed Fusion' National Conference on Innovative Technologies in Engineering and Research (NCITER-2023) at AVC College of Engineering, Mayiladuthurai on 10<sup>th</sup> March, 2023.

10. K.Karthik, M.Saravana Kumar, G.Kamalesh, S.Praveen and S.Monish, 'Modelling and Control of Heat Distribution in a Powder Bed Fusion', International Conference on Intelligent Systems and Control (ISCO 2023) at Karpagam College of Engineering, Coimbatore on 10<sup>th</sup> to 11<sup>th</sup> March 2023.

11. Dr.R.Shankar, G.Arulselvan, A.Rishanth, R.M.Karuppiah and S.Anbarasan, 'IoT based Monitoring and Controlling Parameters of Three Phase Induction Motor' International Conference on Intelligent Systems and Control (ISCO 2023) at Karpagam College of Engineering, Coimbatore on 10<sup>th</sup> to 11<sup>th</sup> March 2023.

12. J.Karthikeyan, B.Sureka, M.Sri Dharshini, and T.Malathi, 'Design and Implementation of Online Score board System for Multisport' International Conference on Intelligent Systems and Control (ISCO 2023) at Karpagam College of Engineering, Coimbatore on 10<sup>th</sup> to 11<sup>th</sup> March 2023.

13. T.Muthukumar, C.Kishore, G.Gopinath, E.Monish and V.Sivaramakrishnan, 'Design and Development of IoT based DC Stepper Motor Control for Grinding Application' International Conference on Emerging Engineering Technologies (ICEET 2023), Raji Publications on 11<sup>th</sup> to 12<sup>th</sup> March 2023.

14. R.Gopalakrishnan, M.Agith, R.Aswinth, J.Jayaraj and S.Sathish, 'Battery Energy System for Renewable Energy Integrated Power System Stability Enhancement' International Conference on Emerging Engineering Technologies (ICEET 2023), Raji Publications on 11<sup>th</sup> to 12<sup>th</sup> March 2023.

15. T.Rajamanikandan, R.Kishore, C.Karuppasamy, S.Manoj and P.Muthamil Pandiyan, 'Battery Operated Tricycle for Physically Challenged Person', International Conference on Emerging Engineering Technologies (ICEET 2023), Raji Publications on 11<sup>th</sup> to 12<sup>th</sup> March 2023.



16. C.Kalaivani, M.V.Subramanyam, Gopinath Singaram, A.Udhaya Kumar, K.Mohanraj and R.Saravanakumar, 'Review of Hybrid Microgrid Power Management using Renewable Energy Sources' International Conference on Advanced Computing & Communication Systems (ICACC 2023) at Sri Eshwar College of Engineering, Coimbatore on 17<sup>th</sup> to 18<sup>th</sup> March 2023.

17. P.S.Raghavendran, A.Sheela, J.Alwin Joseph and S.Ragul, 'Optimization of Electric Vehicle (EV) Routing to Facilitate EV Hub' International Conference on Advanced Computing and Communication Systems (ICACCS) at Sri Eshwar College of Engineering, Coimbatore on 17<sup>th</sup> & 18<sup>th</sup> March 2023.

18. G.Pradeepkumar, G.Praveen Santhoshkumar, C.Rohith Bhat, M.Jeyalakshmi, T.Muthukumar and Neelam Sanjeev Kumar, 'IoT based Smart U-Turn Vehicle Accident Prevention System' International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2023) at Shree Venkateshwara Hi-Tech Engineering College, Erode on 23<sup>rd</sup> to 25<sup>th</sup> March 2023.

19. T.Rajamanikandan, R.Bharathkumar, Sundar.C, Ganesan.P and Sowthri.T, 'Design and Development of Smart Wearable Device for Protection of Wallet debit or Credit Card using ATMEGA 328P Microcontroller', International Conference on Emerging Trends in Communication, VLSI and Signal Processing (ETCVSP'23) at J.J College of Engineering and Technology, Trichy on 24<sup>th</sup> to 25<sup>th</sup> March 2023.

20. K.Mohanraj, S.Jeevanantham, S.MidhunKumar, R.Ragupathi and K.Sudhakar, 'Novel Modulation Strategies of Parallel Connected NPC-PWM Inverters or Grid connected Applications', International Conference on Smart Engineering for Renewable Energy Technologies-2023 (ICSERET-2023) at Ramco Institute of Technology, Virudhunagar on 24<sup>th</sup> to 25<sup>th</sup> March 2023.

21. Ravichandran.V, Gopinath Singaram, Velmurugan.J, Sivaramkrishnan.M, Karthikeyan.J and Neelam Sanjeev Kumar, 'A Review of the Challenges in EV Wireless Charging Technology' International Conference on Communication and Electronics Systems (ICCES 2023) at PPG Institute of Technology, Coimbatore on 1<sup>st</sup> to 3<sup>rd</sup> June 2023.

## Workshop/ Webinar/ FDP Attended

### Workshop

• Mr.K.Mohanraj and Mr.S.Ragul AP of Electrical and Electronics Engineering department attended workshop on 'MEP-ELECTRICAL' at Kongunadu College of Engineering and Technology, Trichy from 29<sup>th</sup> & 30<sup>th</sup> March 2023.

### Webinar/ Seminar

• Dr.R.Shankar, Prof & Head, Dr.T.Sengolrajan, ASP, Mr.J.Karthikeyan, AP, Mr.S.Ragul, AP, Mrs.S.Revathi, AP, Mr.T.Muthukumar, AP and Mr.P.Tamilnesan, AP of Electrical and Electronics Engineering department attended webinar on 'Powering Automation Control through PLC Technology' at SRM TRP Engineering College, Trichy on 11<sup>th</sup> February 2023.

• Mrs.S.Revathi, AP and Mr.S.Ragul, AP of Electrical and Electronics Engineering department attended webinar on 'Outcome Based - Education - Blended Learning' at SRM Madurai Institute of Engineering and Technology, Madurai on 12<sup>th</sup> April 2023.

• Mr.C.Gowrishankar, AP of Electrical and Electronics Engineering department attended webinar on 'Blooms Taxonomy in Teaching and Learning', San Snow's Nobel Professional Foundation on 16<sup>th</sup> February 2023.

• Dr.R.Shankar, Professor & Head, Mr.R.Gopalakrishnan and Mrs.S.Revathi, AP of Electrical and Electronics Engineering department attended webinar on 'Understanding Implementing and Practicing OBE for Academic Excellence' at Kramah Software India Pvt.Ltd, Bangalore on 21<sup>st</sup> March 2023.

• Mrs.S.Revathi, AP of Electrical and Electronics Engineering department attended webinar on 'Smart grid Infrastructure, Technology and Solutions' at SRM Madurai College for Engineering and Technology, Madurai on 04<sup>th</sup> May 2023.

### FDP

• Mr.J.Karthikeyan, AP, Mr.S.Ragul, AP, Mr.S.Arun, AP, Mr.R.Gopalakrishnan, AP and Mr.P.Tamilnesan, AP of Electrical and Electronics Engineering department attended FDP on 'Deployment of Artificial Intelligence Algorithm on the Different Embedded Architectures' at Kongunadu College of Engineering and Technology, Trichy from 02<sup>nd</sup> to 04<sup>th</sup> January 2023.

• Mr.S.Ragul, AP and Mrs.S.Revathi, AP of Electrical and Electronics Engineering department attended FDP on 'Recent Trends and Innovations in Electric Vehicles' at Sri Krishna College of Technology, Coimbatore from 30<sup>th</sup> January to 03<sup>rd</sup> February 2023.

• Mr.T.Muthukumar, AP of Electrical and Electronics Engineering department attended FDP on 'Innovation in Mentoring Pedagogy and Incorporation of ICT Techniques in Education' at Paavai Engineering College, Namakkal from 30<sup>th</sup> January to 04<sup>th</sup> February 2023.

• Mr.K.Karthik, AP, Mr.T.Muthukumar, AP and Mrs.S.Revathi, AP of Electrical and Electronics Engineering department attended FDP on 'Biomass Conversion and Biorefinery' by NPTEL from 1<sup>st</sup> January to 30<sup>th</sup> April 2023.

### MoU Signed

• Kongunadu College of Engineering and Technology (Autonomous) signed MoU with Basell Automation System Private Limited, Chennai - 600095 on 18<sup>th</sup> April 2023.



### Funds Received

• Mr.T.Rajamanikandan, AP / EEE & Head (IPR & Product Development) received a project fund of Rs.9,75,000/- for the project on "Formulation and Scaling up the production and commercialization of products from Banana Fibre residue to increase the income of farmers" from National Bank for Agriculture and Rural Development (NABARD), Chennai under FSPF Scheme on 23<sup>rd</sup> January 2023.

• Mr.T.Rajamanikandan, AP / EEE & Head (IPR & Product Development) received a seminar grant of Rs.1,00,200/- for organizing a regional seminar on "R & D Technological Interventions on Coir for Sustainable Development" from Coir board, Ministry of MSME, Government of India, Pollachi on 27<sup>th</sup> March 2023



- Dr.R.Shankar, Prof & Head and Mr.T.Muthukumar, AP of Electrical and Electronics Engineering received a seminar grant of Rs.1,00,000/- on "Social and Technological Impact of Power Electronics based Hybrid Electric Vehicles for Sustainable Environment" from Indian Council of Social Science Research (ICSSR), New Delhi on 18<sup>th</sup> May 2023.

### Value Added Course

1. VACEE12 - Embedded C for Electrical Engineering.
2. VACEE11 - Simulation of Electronics Circuit using PSPICE - Or CAD.
3. VACCS011 - Problem Solving Skill in C++ and Java Programming.

### Students Contribution

#### NPTEL Completed

- Akash.S, Dhanush.R, Dharshini.V, Dharun.R, Gayathiri.S, Kishor Kumar.P, Mahilmithran.R.S, Moulee swaran.K, Siva.P, Sowmiya.M, Sridhar.R, Srikanth.M, Srinitha.K, Subashini.R, Swathi.M, Thabuna.A & Vijika.V of II year Electrical and Electronics Engineering department completed the NPTEL course on 'Biomass Conversion and Biorefinery' during January to April 2023.

- Balaji.B, Deepana Sree.V, Devadharshini.J, Dhayanithi.S, Dhivya dharshini.M, Gokul.N, Harija.V, Hesingraj.A, Infant Steve.T, Jeeva.R, Karthikeyan.G, Kaviya dharshini.M.K, Keerthana.M, Kirubananthan.A, Kishore kumar.B, Prasanth.D, Sanfarrenosha.A, Sanjay.S, Suresh.S, Swetha.A, Vignesh.S, Vijay.P, Nishanth.R, Santhoshkumar.P, Sathishkumar.S, Sedhupathi.R & Vaseekaran.V of III year Electrical and Electronics Engineering department completed the NPTEL course on 'Biomass Conversion and Biorefinery' during January to April 2023.

### Prize Won

1. A.Anas Mohammed, S.T.Sugitha, S.Sarathkumar and M.K.Kaviyadharshini of III year Electrical and Electronics Engineering department won III Prize in Project presentation on 'Banana Tree Waste Converted into Electrical Switch Board, Furniture and Food Serving Plates and Cups' at India International Science Festival 2023 (IISF), Bhopal, Madhya Pradesh on 21<sup>st</sup> -24<sup>th</sup> January 2023.



2. S.Anbarasan of IV year Electrical and Electronics Engineering department won ARCANE'23 in Pitching Event, Tap Tycoon organized by Cauvery College for Women, Trichy on 3<sup>rd</sup> February 2023.

3. S.Sarathkumar and T.Thinagaran of III year Electrical and Electronics Engineering department won I Prize in Paper presentation on title 'Home Automation using Google Assistant' in National Level Technical Symposium TECHSET-2K23 organized by Dhanalakshmi Srinivasan University, Trichy on 7<sup>th</sup> February 2023.

4. M.Vignesh, B.Kishore and M.K.Kaviyadharshini of III year Electrical and Electronics Engineering department won I Prize in Connection (General) in National Level Technical Symposium TECHSET - 2K23 organized by Dhanalakshmi Srinivasan University, Trichy on 7<sup>th</sup> February 2023.

5. S.Vignesh and A.Thomas Maria Jones of III year Electrical and Electronics Engineering department won I Prize in Paper presentation on title 'AI in Power Station' in National Level Technical Symposium SCIENSEA 2K23 organized by Kongu Engineering College, Erode on 15<sup>th</sup> February 2023.

6. S.T.Sugitha, A.Sanforensa and M.Keerthana of III year Electrical and Electronics Engineering department won I Prize in Paper presentation on title 'Rechargeable Camphor Diffuser Machine' in National Level Technical Symposium SCIENSEA 2K23 organized by Kongu Engineering College, Erode on 15<sup>th</sup> February 2023.

7. S.Akash, P.Santhoshkumar and R.Dhanush of II year Electrical and Electronics Engineering department won III Prize in Paper presentation on title 'Extraction of fuel and Electricity from waste plastics' in National Level Technical Symposium POWVAZ-2K23 organized by P.A.College of Engineering and Technology, Pollachi on 23<sup>rd</sup> February 2023.

8. S.Gokul of IV year Electrical and Electronics Engineering department won I Prize in Presentronix in National Level Technical Symposium Henosis 2K23 organized by Dr.N.G.P.Institute of Technology, Coimbatore on 25<sup>th</sup> February 2023.

9. S.Gokul of IV year Electrical and Electronics Engineering department won I Prize in Robo Soccer in National Level Technical Symposium Henosis 2K23 organized by Dr.N.G.P.Institute of Technology, Coimbatore on 25<sup>th</sup> February 2023.

10. S.Gokul of IV year Electrical and Electronics Engineering department won I Prize in Black Box in National Level Technical Symposium Henosis 2K23 organized by Dr.N.G.P.Institute of Technology, Coimbatore on 25<sup>th</sup> February 2023.

11. S.Gokul of IV year Electrical and Electronics Engineering department won I Prize in Embedded Hackathon in National Level Technical Symposium Henosis 2K23 organized by Dr.N.G.P.Institute of Technology, Coimbatore on 25<sup>th</sup> February 2023.

12. C.Ragavendra, A.Thomas Maria Jones and T.Thinagaran of III year Electrical and Electronics Engineering department won I Prize in Paper presentation on title 'AI in Power Station' in National Level Technical Symposium GEARS TO GO 2K23 organized by M.Kumarasamy College of Engineering, Karur on 1<sup>st</sup> March 2023.

13. M.K.Kaviyadharshini and M.Winmathi of III year Electrical and Electronics Engineering department won II Prize in Boot Camp on Robotics at Entrepreneurship Development Cell & Institution Innovation Council organized by Cauvery College for Women, Trichy on 1<sup>st</sup> & 2<sup>nd</sup> March 2023.

14. S.Sathishkumar, P.Santhoshkumar and R.Nishanth of III year Electrical and Electronics Engineering department won I Prize in Paper presentation on title 'Power Density Measurements of Aloe Vera Battery' in National Level Technical Symposium CYBORG 2K23 organized by V.S.B.Engineering College, Karur on 2<sup>nd</sup> March 2023.

15. P.Vijay, V.Deepak Kumar and S.Jenith of III year Electrical and Electronics Engineering department won I Prize in Paper presentation on title 'Silicon Based Solar Panel using Sand and Clay' in State Level Technical Symposium FESTRONIX'23 organized by K.Ramakrishnan College of Technology, Trichy on 7<sup>th</sup> March 2023.



16. M.Thayanithi of III year Electrical and Electronics Engineering department won II Prize in Circuit Debugging in State Level Technical Symposium FESTRONIX'23 held by K.Ramakrishnan College of Technology, Trichy on 7<sup>th</sup> March 2023.

17. M.Vignesh of III year Electrical and Electronics Engineering department won III Prize in Photography in State Level Technical Symposium FESTRONIX'23 organized by K.Ramakrishnan College of Technology, Trichy on 7<sup>th</sup> March 2023.

18. S.Sarathkumar and N.Gokul of III year Electrical and Electronics Engineering department won I Prize in Paper presentation on title 'Tamarind Acid Battery' in National Level Technical Symposium ELECTRICO-2K23 organized by Knowledge Institute of Technology, Salem on 17<sup>th</sup> March 2023.

## Publication in Journals

- Dr.P.Arul, S.Gokul, V.Dhanush, M.Prasanth and S.Harirajaram, 'Smart PV based OFF Grid System', Journal of Emerging Technologies and Innovative Research (JETIR), ISSN:2349-5162, Vol.10, No.3, pp.275-280, March 2023.

- Mr.S.Arun, Dr.P.Arul, K.Suganeshwari, V.Myuri, P.Meera and R.Gunavarshini, 'IoT Enabled Attendance Monitoring System for Gardeners using RFID', International Journal of Enhanced Research in Science, Technology & Engineering, ISSN: 2319-7463, Vol.12, No.3, pp.85-89, March 2023.

## Conference

1. J.Karthikeyan, M.Mohammed Mydeen, S.Purushothaman and C.Nithish, 'Design and Implementation of Smart Board system' International Conference on Recent Trends in Computer Communication and Business Management (ICRTCCB 2023) at Sethu Institute of Technology, Virudhunagar, 10<sup>th</sup> March 2023.

2. C.Gowrishankar, N.Divyabharathi, K.Lalithapriya, Pooja.S and A.Srilekha, 'Modified Luo Based Boost Converter with Single Input and Multi Output Topology' International Conference on Recent Trends in Computer Communication and Business Management (ICRTCCB 2023) at Sethu Institute of Technology, Virudhunagar, 10<sup>th</sup> March 2023.

3. P.Tamilnesan, C.Chowmya, R.Dharshini and M.Shalini, 'AI Empowered MPPT Technique in Solar Power Generation' International Conference on Recent Trends in Computer Communication and Business Management (ICRTCCB 2023) at Sethu Institute of Technology, Virudhunagar on 10<sup>th</sup> March 2023.

4. T.Muthukumar, C.Kishore, G.Gopinath, E.Monish and V.Sivaramakrishnan, 'Design and Development of IoT based DC Stepper Motor Control for Grinding Application' International Conference on Emerging Engineering Technologies (ICEET 2023), Raji Publications, on 11<sup>th</sup> to 12<sup>th</sup> March 2023.

5. R.Gopalakrishnan, M.Agith, R.Aswinth, J.Jayaraj and S.Sathish, 'Battery Energy System for Renewable Energy Integrated Power System Stability Enhancement' International Conference on Emerging Engineering Technologies (ICEET 2023), Raji Publications, on 11<sup>th</sup> to 12<sup>th</sup> March 2023.

6. T.Rajamanikandan, R.Kishore, C.Karuppasamy, S.Manoj and P.Muthamil Pandiyan, 'Battery Operated Tricycle for Physically Challenged Person', International Conference on Emerging Engineering Technologies (ICEET 2023), Raji Publications, on 11<sup>th</sup> to 12<sup>th</sup> March 2023.

7. K.Karthik, M.Saravana Kumar, G.Kamalesh, S.Praveen and S.Monish, 'Modelling and Control of Heat Distribution in a Powder Bed Fusion', International Conference on Intelligent Systems and Control (ISCO 2023) at Karpagam College of Engineering, Coimbatore on 10<sup>th</sup> to 11<sup>th</sup> March 2023.

8. Dr.R.Shankar, G.Arulselvan, A.Rishanth, R.M.Karuppiyah and S.Anbarasan, 'IoT based Monitoring and Controlling Parameters of Three Phase Induction Motor' International Conference on Intelligent Systems and Control (ISCO 2023) at Karpagam College of Engineering, Coimbatore on 10<sup>th</sup> to 11<sup>th</sup> March 2023.

9. J.Karthikeyan, B.Sureka, M.Sri Dharshini, and T.Malathi, 'Design and Implementation of Online Score board System for Multisport' International Conference on Intelligent Systems and Control (ISCO 2023) at Karpagam College of Engineering, Coimbatore, 10<sup>th</sup> to 11<sup>th</sup> March 2023.

10. T.Rajamanikandan, R.Bharathkumar, Sundar.C, Ganesan.P and Sowthri.T, 'Design and Development of Smart Wearable Device for Protection of Wallet debit or Credit Card using ATMEGA 328P Microcontroller', International Conference on Emerging Trends in Communication, VLSI and Signal Processing (ETCVSP'23) at J.J College of Engineering and Technology, Trichy, 24<sup>th</sup> to 25<sup>th</sup> March 2023.

11. T.Sengolrajan, S.Jawahar, M.Shankar, P.Jeevarathinam and G.Paveen, 'Development of Automatic Seed Sowing and Counting Machine', International Conference on Recent Trends in science, Engineering and Technology (KIRSET 2023) at Kamaraj College of Engineering and Technology, Virudhunagar, 09<sup>th</sup> to 10<sup>th</sup> March 2023.

12. K.Mohanraj, S.Jeevanantham, S.MidhunKumar, R.Ragupathi and K.Sudhakar, 'Novel Modulation Strategies of Parallel Connected NPC-PWM Inverters or Grid connected Applications', International Conference on Smart Engineering for Renewable Energy Technologies - 2023 (ICSERET-2023) at Ramco Institute of Technology, Virudhunagar, 24<sup>th</sup> to 25<sup>th</sup> March 2023.

13. R.Manikandan, P.Karthikeyan, K.R.Srinivasan and P.Premkumar, 'Design and Implementation of Smart Control Electrical Appliances for Institutional Building', International Conference on Recent Trends in science, Engineering and Technology (KIRSET 2023) at Kamaraj College of Engineering and Technology, Virudhunagar, 09<sup>th</sup> to 10<sup>th</sup> March 2023.

14. K.Karthik, M.Saravana Kumar, G.Kamalesh, S.Praveen and S.Monish, 'Modelling and Control of Heat Distribution in a Powder Bed Fusion' National Conference on Innovative Technologies in Engineering and Research (NCITER-2023) at AVC College of Engineering, Mayiladuthurai, 10<sup>th</sup> March, 2023.

15. M.Thayanithi, J.Vimalraj, S.AbdulRahuman and M.Karthikeyan, 'Optimization Control in Fast Charging Converter for Renewable Systems and E-Vehicle Applications', International Conference on Smart Engineering for Renewable Energy Technologies-2023 (ICSERET-2023) at Ramco Institute of Technology, Rajapalayam, 24<sup>th</sup> to 25<sup>th</sup> March 2023.

16. Dhanish.N, M.Nithish Kumar, M.Vignesh, 'Design Development and Performance of an IoT based Smart Energy Management in Micro Grid' International Conference on Recent Trends in Computer Communication and Business Management (ICRTCCB 2023) at Sethu Institute of Technology, Virudhunagar, 10<sup>th</sup> March 2023.



17. G.Kalaichelvi, N.Thirisha, S.Kaviya and K.Sugashini, 'Design and Fabrication of Three Axis Limit Switching and Stepper Motor Control for Duplication', International Conference on Emerging Trends in Communication, VLSI and Signal Processing (ETCVP'23) at J.J College of Engineering and Technology, Trichy, 24<sup>th</sup> to 25<sup>th</sup> March 2023.

## Paper Presentation

1. S.Hari Gokul & S.Sudhakar of II Year EEE Department presented a paper on 'Lifi Technology' in a National Technical Symposium 'TECHSET - 2K23' at Dhanalakshmi Srinivasan University, Trichy 07<sup>th</sup> February 2023.

2. B.Praveen & V.Dhayalan of II Year EEE Department presented a paper on 'Solar Power' in a National Technical Symposium 'TECHSET - 2K23' at Dhanalakshmi Srinivasan University, Trichy 07<sup>th</sup> February 2023.

3. R.Dharshana of II Year EEE Department presented a paper on 'Hybrid Electric Vehicle' in a National Technical Symposium 'TECHSET - 2K23' at Dhanalakshmi Srinivasan University, Trichy 07<sup>th</sup> February 2023.

4. B.Kishore & M.Vignesh of III Year EEE Department presented a paper on 'Screenless Display' in a National Technical Symposium 'TECHSET - 2K23' at Dhanalakshmi Srinivasan University, Trichy 07<sup>th</sup> February 2023.

5. J.Devadharshini & M.K.Kavyadharshini of III Year EEE Department presented a paper on 'Portable Smart Watch based RC Nano Car' in a National Technical Symposium 'TECHSET - 2K23' at Dhanalakshmi Srinivasan University, Trichy 07<sup>th</sup> February 2023.

6. P.Anandhan, R.Sridhar & V.Thirumalai of II Year EEE Department presented a paper on 'Hybrid Electric Vehicle' in a National level event 'BIT V - PRAYUKTI'23' at Bannari Amman Institute of Technology, Sathiyamangalam 10<sup>th</sup> to 11<sup>th</sup> February 2023.

7. R.Dharaun, P.Dinesh Murugan & T.Abhishek of II Year EEE Department presented a paper on 'Organic Electronics' in a National level event 'BIT V-PRAYUKTI'23' at Bannari Amman Institute of Technology, Sathiyamangalam 10<sup>th</sup> to 11<sup>th</sup> February 2023.

8. S.Adaikalraj, J.Jegesh & B.Kishore of III Year EEE Department presented a paper on 'Power Density Measurement of Aloe Vera Battery' in a National Technical Symposium 'SCIENSEA - 2K23' at Kongu Engineering College, Erode, 15<sup>th</sup> February 2023.

9. S.T.Sugitha, A.Sanforensa & M.Keerthana of III Year EEE Department presented a paper on 'Rechargeable Camphor Diffuser' in a National Technical Symposium 'SCIENSEA - 2K23' at Kongu Engineering College, Erode, 15<sup>th</sup> February 2023.

10. P.Pavithra & S.Dharshini of III Year EEE Department presented a paper on 'Silent Sound Technology' in a National Technical Symposium 'SCIENSEA - 2K23' at Kongu Engineering College, Erode, 15<sup>th</sup> February 2023.

11. S.Kiruthika, A.Swetha, V.Harija & S.Sathiya of III Year EEE Department presented a paper on 'Renewable Energy Resources' in a National Technical Symposium 'SCIENSEA-2K23' at Kongu Engineering College, Erode, 15<sup>th</sup> February 2023.

12. M.Dhivyadharshini, M.Winmathi & V.Deepnasree of III Year EEE Department presented a paper on 'Internet of Things' in a National Technical Symposium 'SCIENSEA-2K23' at Kongu Engineering College, Erode, 15<sup>th</sup> February 2023.

13. S.Vignesh & A.Thomas Maria Jones of III Year EEE Department presented a paper on 'Pulmonary Lobe Based Lung Diseases Detection using Deep Learning Techniques' in a National Technical Symposium 'SCIENSEA-2K23' at Kongu Engineering College, Erode, 15<sup>th</sup> February 2023.

14. A.Anas Mohammed, J.Hasim Abdullah & R.Balaji of III Year EEE Department presented a paper on 'Aloe Vera Battery' in a National Technical Symposium 'ARTIFEST'23' at M.Kumarasamy College of Engineering, Karur, 16<sup>th</sup> February 2023.

15. K.Mouleeswaran, S.Aneesh & S.Girishwaran of II Year EEE Department presented a paper on 'Self Automation' in a National Technical Symposium 'POWAZ-2K23' at P.A.College of Engineering and Technology, Pollachi, 23<sup>rd</sup> February 2023.

16. A.Hasingraj & G.Karthikeyan of III Year EEE Department presented a paper on 'Home Automation using Google Assistant' in a National Technical Symposium 'Lightning Fest 2K23' at V.S.B. Engineering College, Karur, 25<sup>th</sup> February 2023.

17. T.Thinagaran & V.Nandhakishore of III Year EEE Department presented a paper on 'AI In Power Station' in a National Technical Symposium 'Lightning Fest 2K23' at V.S.B. Engineering College, Karur, 25<sup>th</sup> February 2023.

18. E.Kaviyan & R.S.Keerthivasan of III Year EEE Department presented a paper on 'Electronics Skin' in a National Technical Symposium 'Lightning Fest 2K23' at V.S.B. Engineering College, Karur, 25<sup>th</sup> February 2023.

19. B.Kishorekumar of III Year EEE Department presented a paper on 'Virtual Reality' in a National Technical Symposium 'GENISIS 2023' at M.Kumarasamy College of Engineering, Karur, 28<sup>th</sup> February 2023.

20. B.Balaji of III Year EEE Department presented a paper on 'Artificial Intelligence in Power System' in a National Technical Symposium 'GENISIS 2023' at M.Kumarasamy College of Engineering, Karur, 28<sup>th</sup> February 2023.

21. S.Sanjay & S.Sarankumar of III Year EEE Department presented a paper on 'Home Automation using Google Assistant' in a National Technical Symposium 'GENISIS 2023' at M.Kumarasamy College of Engineering, Karur, 28<sup>th</sup> February 2023.

22. V.Nandhakishore & S.Vignesh of III Year EEE Department presented a paper on 'Mico Electro Mechanical System' in a National Technical Symposium 'GENISIS 2023' at M.Kumarasamy College of Engineering, Karur, 1<sup>st</sup> March 2023.

23. S.Dharshini & P.Pavithra of III Year EEE Department presented a paper on 'Driverless Autonomous Car' in a National Technical Symposium 'GENISIS 2023' at M.Kumarasamy College of Engineering, Karur, 1<sup>st</sup> March 2023.

24. M.Malini & R.Thangamani of III Year EEE Department presented a paper on 'Google Air Buds' in a National Technical Symposium 'TECHUTSAV 23' at Vivekanandha College of Technology for Women, Tiruchengode, 2<sup>nd</sup> March 2023.

25. R.Jeeva, R.S.Alageshwaran & S.Sarathkumar of III Year EEE Department presented a paper on 'Smart Dustbin' in a National Technical Symposium 'MEGRA-2K23' at M.A.M. College of Engineering and Technology, Trichy, 3<sup>rd</sup> March 2023.



26. N.Gokul, M.Harish & M.Vignesh of III Year EEE Department presented a paper on 'Internet of Things' in a National Technical Symposium 'MEGRA-2K23' at M.A.M. College of Engineering and Technology, Trichy, 3<sup>rd</sup> March 2023.

27. A.Balamurugan of III Year EEE Department presented a paper on 'E-Vehicles automation' in a National Technical Symposium 'TEKSPARK 23' at Karpagam Institute of Technology, Coimbatore, 4<sup>th</sup> March 2023.

28. T.Infant Steve & P.Praveen Xavier of III Year EEE Department presented a paper on 'Power Electronics application in Power System' in a State level Technical Symposium 'FESTRON 23' at K.Ramakrishnan College of Technology, Trichy, 7<sup>th</sup> March 2023.

29. S.Suresh of III Year EEE Department presented a paper on 'Brain Computer' in a State level Technical Symposium 'FESTRON 23' at K.Ramakrishnan College of Technology, Trichy, 7<sup>th</sup> March 2023.

30. R.Sureshkumar of III Year EEE Department presented a paper on 'Interface' in a State level Technical Symposium 'FESTRON 23' at K.Ramakrishnan College of Technology, Trichy, 7<sup>th</sup> March 2023.

31. S.Meiyarasu of II Year EEE Department presented a paper on 'Blue Eye Technology' in a National Technical Symposium 'MECHONSTRZ 2K23' at V.S.B. Engineering College, Karur, 9<sup>th</sup> March 2023.

32. T.Thinagaran of III Year EEE Department presented a paper on 'Renewable Energy' in CYBER CARNIVAL 23 at SRM Institute of Science and Technology, Chennai, 13<sup>th</sup> to 14<sup>th</sup> March 2023.

33. V.Pragatheeswaran, A.Chandru, R.Balaji & R.Boopathi of III Year EEE Department presented a paper on 'Aloe Vera Battery' in YUDDHAVARNA 23 at M.Kumarasamy College of Engineering, Karur, 16<sup>th</sup> March 2023.

34. S.Karthi & S.Sanjay Kumar of III Year EEE Department presented a paper on 'Wireless Communication' in YUDDHAVARNA 23 at M.Kumarasamy College of Engineering, Karur, 16<sup>th</sup> March 2023.

35. D.Prasanth & S.Adaikalraj of III Year EEE Department presented a paper on 'Blue Eye Technology' in a National Technical Symposium 'MeSCia 2k23' at Kongu Engineering College, Erode, 16<sup>th</sup> March 2023.

36. C.Keerthana Shivani of II Year EEE Department presented a paper on 'Cryptography' in a National Technical Symposium 'TECQUORA 2K23' at Hindustan college of Engineering and Technology, Coimbatore, 13<sup>th</sup> April 2023.

## Internship

1. Sarathkumar.S of Electrical and Electronics Engineering department attended internship at smart knower, Bengaluru from 01<sup>st</sup> June to 31<sup>st</sup> July 2022.

2. Vignesh.M, Harirajaram.S, Nithish.C, Shankar.M, Prakash.S, Thayanithi.M, Kaviyadharshini.M.K, Dharshini.S, Devadharshini.J, Vignesh.M and Gokul.N of Electrical and Electronics Engineering department attended internship at Imagecon India Private Limited, salem from 07<sup>th</sup> September to 24<sup>th</sup> September 2022.

3. Thinagaran.T of Electrical and Electronics Engineering department attended internship at Skill Vertex, Bengaluru from 05<sup>th</sup> September to 05<sup>th</sup> October 2022.

4. Balaji.R, Chandru.A, Dhilipraj.R, Harija.V, Kiruthika.S, Malini.M, Sanfarrenosha.A, Sathya.S and Swetha.A of Electrical and Electronics Engineering department attended internship at iSquare Consulting Services LLP, Trichy from 29<sup>th</sup> December 2022 to 12<sup>th</sup> January 2023.

5. Sundar.C of Electrical and Electronics Engineering department attended internship at ABE Semiconductor Designs, Chennai from 05<sup>th</sup> December 2022 to 20<sup>th</sup> January 2023.

6. Deepana Sree.V, Dhivyadharshini.M, Thangamani.R, Divyabharathi.N, Malathi.T, Meera.P, Myuri.V, Pooja.S, Shalini.M, Srilekha.A and Sugashini.K of Electrical and Electronics Engineering department attended internship at VEI Technologies Pvt Limited, Chennai from 31<sup>st</sup> December 2022 to 14<sup>th</sup> January 2023.

7. Adaikalraj.S of Electrical and Electronics Engineering department attended internship at Orange Automation, Coimbatore from 01<sup>st</sup> February to 15<sup>th</sup> February 2023.

8. Chandra Mouli.K, Mahilmithran.R.S, Manoj.A, Sowmiya.M, Srikanth.M, Srinivasan.B, Swathi.M, Ragavendra.C, Purushothaman.S and Nithishkumar.M of Electrical and Electronics Engineering department attended internship at VAAYUSASTRA AEROSPACE, IIT Madras, Incubated Company from 02<sup>nd</sup> February to 16<sup>th</sup> February 2023.

9. Balamurugan.A, Dhayanithi.S, Harish.M, Kaviyan.E, Keerthivasan.R.S, Vijay.P, Chowmya.C, Dharshini.R, Gunavarshini.R, Kaviya.S, Lalithapriya.K, Sureka.B, Thirisha.N and Kalaichelvi.G of Electrical and Electronics Engineering department attended internship at Gateway Software Solutions, Coimbatore from 20<sup>th</sup> January to 20<sup>th</sup> February 2023.

10. Agith.M and Dhanush.V of Electrical and Electronics Engineering department attended internship at Aquasub Engineering, Coimbatore from 01<sup>st</sup> February to 17<sup>th</sup> February 2023.

11. Jayaraj.J, Jeevarathinam.P, Karuppasamy.C, Karuppiyah.R.M, Kishore.C, Manoj.S, Praveen.G, Praveen.S, Saravana Kumar.M, Sowthri.T, Vimalraj.J and Abdulrahman.S of Electrical and Electronics Engineering department attended internship at Innovative solutions, Bangalore from 22<sup>nd</sup> January to 22<sup>nd</sup> February 2023.

12. Aswinth.R, Karthikeyan.P, Midhunkumar.S, Mohamedmydeen.M, Prasanth.M, Ragupathi.R, Rishanth.A and Dhanish.N of Electrical and Electronics Engineering department attended internship at AXIS Global Automation, Coimbatore from 20<sup>th</sup> February to 20<sup>th</sup> March 2023.

13. Prasanth.D, Sanjay.S and Suresh.S of Electrical and Electronics Engineering department attended internship at Kodacy in Association with SPACE from 01<sup>st</sup> March to 16<sup>th</sup> March 2023.



14. Arulselvan.G, Kishore.R, Monish.S, Muthamil Pandiyan.P, Ganesan.P, Karthikeyan.M, Alageshwaran.R.S, Hesingraj.A, Infant Steve.T, Karthikeyan G, Nandhakishore.V, Praveen Xavier P and Sathishkumar.S of Electrical and Electronics Engineering department attended internship at IPCS Automation, Trichy from 19<sup>th</sup> March to 02<sup>nd</sup> April 2023.

15. Kishorekumar.B of Electrical and Electronics Engineering department attended internship at Scientific Platforms and Cosmic Explorations SPACE from 25<sup>th</sup> March to 10<sup>th</sup> April 2023.

16. Vignesh.S of Electrical and Electronics Engineering department attended internship at VERZEO, Bengaluru from 01<sup>st</sup> April to 10<sup>th</sup> April 2023.

17. Pragatheeswaran.V of Electrical and Electronics Engineering department attended internship at VEI Technologies Pvt Limited, Chennai from 14<sup>th</sup> February to 28<sup>th</sup> February 2023.

18. Sedhupathi.R of Electrical and Electronics Engineering department attended internship at Kodacy in Association with SPACE from 05<sup>th</sup> June to 21<sup>st</sup> June 2023.

19. Nishanth.R of Electrical and Electronics Engineering department attended internship at Kodacy in Association with SPACE from 20<sup>th</sup> June to 04<sup>th</sup> July 2023.

20. Gokul.S, Sri Dharshini.M, Srinivasan.K.R, Suganeshwari.K, Bharathkumar.R, Gopinath.G and Kamalesh.G of Electrical and Electronics Engineering department attended internship at Besant Technologies, Bangalore from 10<sup>th</sup> April to 25<sup>th</sup> April 2023.

21. Jagesh.J of Electrical and Electronics Engineering department attended internship at Samcore Solution, Trichy from 15<sup>th</sup> June to 30<sup>th</sup> June 2023.

### Industrial Visit

- S & T Workshops / S.Rly / Podanur., Coimbatore.
- Kadamparai Power House, Coimbatore.

### IIT Spoken Tutorial Award 2023

• K.S.Vignesh and C.Kalaivani, Alumni students (Batch 2018 - 2022) of Electrical and Electronics Engineering department have received IIT Spoken tutorial STAR Award at IIT, Bombay on 04.03.2023 for the outstanding achievements and exceptional alumni of IIT Spoken tutorial courses.

### Consultancy

• The consultancy work of the Government Project under District Rural Development Agency (DRDA) titled on "3 wheels electric battery - operated cart" has been carried with the guidance of Mr.T.Rajamanikandan, AP / EEE & Head (IPR & Product Development).

### ISTE Best Outgoing Student

Mr.R.Kishore, IV-Year has Won ISTE Best Outgoing Student Award for the year 2022-2023 for his overall Performances in academic, extra-curricular involvement in ISTE Chapter activities held at Sri Venkateswara College of Engineering, Sriperumbudur.



### Pongal Celebration

The Electrical and Electronics Engineering department students and faculty members celebrated the Pongal festival on 13<sup>th</sup> January 2023.



### Placement Details

S.No	Name of the Company	Number of Students Placed
1.	Cognizant Technology Solutions	08
2.	Tata Consultancy Services	01
3.	Mallow Technologies	01
4.	Aspire Systems	03
5.	Centizen Inc	01
6.	Trane Technologies	03
7.	Renault Nissan Technologies	02
8.	KG Invicta Services Private Limited	03
9.	Aquasub Engineering	05
10.	Texmo Industries-Taro Pumps	14
11.	TVS Sundram Fasteners Ltd	05
12.	Anand Engineering Products Ptv. Ltd	12
13.	Pegatron Technology India Pvt Ltd	10
14.	Sutherland Global Services Pvt Ltd	1
15.	Mitsuba India Private Limited	11
16.	Arthur Grand Technologies Private Limited	03
17.	V R Della IT services Private Limited	02



## LIST OF TOPPERS NOV/DEC 2022-2023

### (IV Year/ VII Sem)



**A. SRILEKHA**  
8.909 SGPA



**K. SUGANESHWARI**  
8.773 SGPA



**N. THIRISHA**  
8.500 SGPA

### (III Year/ V Sem)



**A. SANFARNESH**  
9.435 SGPA



**A. SWETHA**  
8.783 SGPA



**M. KEERTHANA**  
8.478 SGPA

### (II Year/ III Sem)



**M. SOWMIYA**  
9.652 SGPA



**C. KEERTHANA SHIVANI**  
9.565 SGPA



**S. AKASH**  
9.478 SGPA

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

**PEO I : 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)

**PSO 1 : Professional skills :** Students shall have abilities to take challenges associated with electrical power and renewable energy generation, transmission, distribution and utilization.

**PSO 2 : 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 ethics, values and contribution to the society

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