



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2025-2026

FACULTY PUBLICATIONS - International / National Conferences

S.NO	DETAILS
International Conference:	
1.	P.Pandiaraja, S.Radha, Sengolrajan Thanasingh , K.Karthik, G.Vijayakumar and C.Selvarathi, 'Enhance User Authentication Via Deep Learning on Face and Periocular Biometrics', IEEE Proceedings of 3 rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2025), ISBN:979-8-3315-1250-7, at Erode, India from 6 th -8 th August, 2025, pp.1029-1035, DOI: 10.1109/ICSCDS65426.2025.11167738.
2.	P.Pandiaraja, C.Visali, S.Murali, K.Karthik, S.Revathi and C.Selvarathi, 'A Deep Learning based Framework for automated Freshness and Quality Assessment in agricultural Produce', IEEE 4 th International Conference on Innovative Mechanisms for Industry Applications (ICIMIA-2025) at Sasurie College of Engineering, Tirupur from 3 rd -5 th September, 2025, pp.1590-1597, DoI: 10.1109/ICIMIA67127.2025.11200639.
3.	C.Selvarathi, P.Pandiaraja, C.Ushapriya, R.Senthilkumar, B.T.Annapoorani and R.Deebika , 'Gyroscope and Accelerometer Based Assistive Spoon for Motor Disorder Patients', IEEE 6 th International Conference on Smart Electronics and communication (ICOSEC 2025) at Kongunadu College of Engineering and Technology, Trichy from 24 th -26 th September, 2025, pp. 673-677, DOI: 10.1109/ICOSEC67334.2025.11459777.
4.	Sarathkumar.D, Raymon Antony Raj, T.P.Saravanan, B.K.Parrthipan, Murugesan Manivel, Guna G, Anil A.R.,Sivakumar Annamalai, Karthikeyan.J , 'An extensive critique cybersecurity threats and mitigation strategies in smart grid networks with PID', 2025 IEEE 2 nd International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST-2025) at National Institute of Technology, Jamshedpur from 11 th -13 th October, 2025, pp.1-6, DOI: 10.1109/GIEST66547.2025.11387381
5.	N. Karthik, R.Velumani, P. Tamilnesan , K. Poongothai, M. K. Nivodhini and S.K.Sengottaiyan, 'An IoT based Smart Health Management Paradigm to Predict Overweight and Obesity Levels using Machine Learning Logic in 2025', IEEE 2025 6 th Global Conference for Advancement in Technology (GCAT) at Nagarjuna College of Engineering and Technology, Bangalore from 24 th - 26 th October, 2025, pp.1-7, DOI: 10.1109/GCAT66372.2025.11368513



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

6.	D. Sarathkumar, R. Shankar , R. Kalaiarasan, P. Sivaraman, M. S. Senthil Saravanan, T. Loganayagi, I. Murugesan and S. Lavanya, 'Cybersecurity Strategies for Peer-to-Peer Energy Trading in Community Microgrids', IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS) at Maulana Azad National Institute of Technology, Bhopal, India, from 31 st January–1 st February, 2026, pp. 1–6, DOI: 10.1109/SCEECS68810.2026.11429829.
7.	D. Sarathkumar, Sathesh Kumar Thirumalaisamy, M. Sugumaran, K. Mohanraj , Nageswari D, I. Raja Rajeswari, G. Dinesh and S. Prince Samuel, 'Decentralized Control Strategies for EV-Enabled Microgrids', IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2026) at Maulana Azad National Institute of Technology, Bhopal, India, from 31 st January–1 st February, 2026, pp. 1–6, DOI: 10.1109/SCEECS68810.2026.11429950.
8.	D. Sarathkumar, T. P. Saravanan, S. Ragul , G. Guna, B. K. Parthipan, M. Murugesan, R. Sivakumar and S. Annamalai, 'Development of Artificial Intelligence Tools for Predictive Maintenance in High Voltage Systems', IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2026) at Maulana Azad National Institute of Technology, Bhopal, India, from 31 st January–1 st February, 2026, pp. 1–6, DOI: 10.1109/SCEECS68810.2026.11429866.
9.	D. Sarathkumar, T. P. Saravanan, S. Arun Kumar, S. Revathi , K. Umamaheswari, B. K. Parthipan, Murugesan Manivel and C. Anandhakumar, 'Online Optimization and Scheduling Methods for Electric Vehicle Charging in Smart Grid-Based Power Systems', IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS) at Maulana Azad National Institute of Technology, Bhopal, India, from 31 st January–1 st February, 2026, pp. 1–6, DOI: 10.1109/SCEECS68810.2026.11429859.
10.	D. Sarathkumar, P. Sivaraman, T. Jayakumar, J. Karthikeyan , B. K. Parthipan, K. Umamaheswari, M. Murugesan and C. Anandhakumar, 'Next-Generation Battery Technologies for Electric Vehicles: Challenges and Opportunities', IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2026) at Maulana Azad National Institute of Technology, Bhopal, India, from 31 st January–1 st February, 2026, pp. 1–6, DOI: 10.1109/SCEECS68810.2026.11430164.
11.	D. Sarathkumar, T. P. Saravanan, G. P. Bharathi, T. Rengaraj, G. Brindha, J. B. Sajin, Sivakumar Annamalai, C. Anandhakumar, J. Karthikeyan and S. Monic Prabhanth, 'DC Microgrid Control for Fast-Charging Electric Vehicle Stations', IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT), Gwalior, India, pp. 1–6, January 2026, DOI: 10.1109/INSPECT67393.2025.11351009.



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

12.	Sarathkumar Duraisamy, Prasanth Chenniyappan, Subash Chandrasekaran, Tamilkumaran Nagaraj, T. P. Saravanan, Arun Shunmugam D, P. Manikandan, Brindha G, Sivakumar Annamalai and J. Karthikeyan , 'Efficient Solar Water Pumping System for Wastewater Management', IEEE International Conference on Electrical, Electronics, Communication and Computers (ELEXCOM), Dhanbad, India, March 2026, pp. 1–6, DOI: 10.1109/ELEXCOM67950.2025.11451498.
13.	Suresh Muthusamy, Parimala V., Santhakumar C., Shankar R. , Sarathkumar D., Saravanakumar Subramani and Mohamed Fahim Barkath Ali, 'Design and Implementation of Ultra-Capacitor Assisted Hybrid Cell Balancing System Connected DC-DC Converter for Electric Vehicle Applications', 2nd IEEE Sponsored International Conference on Electrical and Electronics for Sustainable Innovations 2026 (ICEESI 2026) at O. P. Jindal University (OPJU), Raigarh, Chhattisgarh, from 27 th –28 th March, 2026.
14.	Srinivasan Murugesan, Nishaanth Sivaraj, Raviprasath Sureshkumar, Mohan Kumar P., Gopalakrishnan R. , B. K. Parthipan and Vanaja C., 'Multi-Source Charging Techniques for Electric Vehicles with G2V and V2G', 2nd IEEE Sponsored International Conference on Electrical and Electronics for Sustainable Innovations 2026 (ICEESI 2026) at O. P. Jindal University (OPJU), Raigarh, Chhattisgarh, from 27 th –28 th March, 2026.
15.	R. Tharwin Kumar, Sarat Kumar Mishra, T. R. Premila, C. Gowrishankar , Monika Khatri and S. Baskaran, 'Golden Eagle Optimized PI Control for Modified Luo Converter with Super Capacitor Integration in PV-Powered Electric Vehicle Charging Systems', IEEE International Conference on Computing Theory and Wireless Communications (ICTWC), at DKTE's Textile & Engineering Institute, Ichalkaranji, Maharashtra, India, from 1 st –2 nd April, 2026.
16.	Dr. A. Sampath , S. Abishek, R. Arunkumar and G. Naveenkumar, 'An Intelligent Fuel Theft Detection and Call Alert System using ESP8266 Microcontroller', Fourth IEEE International Conference on Artificial Intelligence and Machine Learning Applications (AIMLA 2026) at K. S. Rangasamy College of Technology, Tiruchengode, from 16 th –17 th April, 2026, pp. 1–7, DOI: 10.1109/AIMLA67915.2026.11522322.
17.	Sridhar P. , Abhinesh B., Giriraj M. and Sathasivam S., 'Solar Powered Handheld Grass Cutter with Backpack Mounting System', Proceedings of the First International Conference on Emerging Materials in Science and Engineering (ICEMSE-2026), at SRM TRP Engineering College, Tiruchirappalli, 19th February, 2026, pp. 182–183, ISBN: 978-93-343-9898-4.
18.	S. Akash, J. Filbert Joe Winston, B. Hariprasath and K. Mohanraj , 'Real-Time Moisture Alert Device for Bedridden Patients', National Conference on Intelligent Biosystems for Healthcare Analytics (NCIBHA'2026) at Karpagam Academy of Higher Education, Coimbatore, 6 th March, 2026, pp. 136–145, ISBN: 978-93-49019-90-4.



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

19.	D. Anbarasu, G. R. Gokulavasan, P. K. Logesh Vijay and R. Gopalakrishnan , ‘Low-cost Eco-Friendly Solar Panel Cleaning Bot for Residential & Industrial PV Systems’, National Conference on Intelligent Biosystems for Healthcare Analytics (NCIBHA’2026) at Karpagam Academy of Higher Education, Coimbatore, 6 th March, 2026, pp. 51–58, ISBN: 978-93-49019-90-4.
20.	Harikrishnan S., Vengadeshwaran S., Arun D. and Dr. Sampath A. , ‘Automated Heat Control System for Poultry Farm using W1209 Temperature Controller’, Proceedings of 3rd National Conference on Intelligent Biosystems for Healthcare Analytics (NCIBHA’2026), Karpagam Academy of Higher Education, Coimbatore, 6th March, 2026, pp. 59–63, ISBN: 978-93-49019-90-4.
21.	Dr. R. Shankar , S. Harshini, S. Pooja and K. Sona, ‘Smart Fault Detection and Recovery System for Industrial Machinery’, International Conference on Sustainable Materials, Automotive Technologies and Artificial Intelligence (SMATAI 2026) at Karpagam College of Engineering, Coimbatore, from 12 th –13 th March, 2026, pp. 53, ISBN: 9789357018975.
22.	Dr.T. Rajamanikandan , S. Janeeka, G. Kanishka and J. Madhuvarshini, ‘Investigation of Organic Electrolyte Battery’, National Conference on Innovative Techniques in Power Engineering and Drives (ITPED 2K26) at Velammal Engineering College, Chennai, 18 th March, 2026, pp. 12, ISBN: 9789357777872.
23.	R. Deebika , P. Kesavarthini, S. Monisha and T. Riyashini, ‘QR Code and IoT based Student Safety and Attendance Tracking System for Boarding Schools’, National Conference on Innovative Techniques in Power Engineering and Drives (ITPED 2K26) at Velammal Engineering College, Chennai, 18 th March, 2026, pp. 3, ISBN: 9789357777872.
24.	R. Sanjay, S. Vijayakanth, K. Santhoshkumar and C. Gowrishankar , ‘Obstacle Detection and Avoidance for Electric Trolley using IoT’, International Conference on Modern Trends in Engineering, Science, Management and Technology (MESMT-2026) at Dakshina Mara Nadar Sangam College, Tirunelveli, 21 st –22 nd March, 2026, pp. 21, ISBN: 978-93-5782-235-0.
25.	R. Deebika , S. Praveena, J. Sinathi and T. Sujitha, ‘Automated Pet Health, Feeding and Activity Monitoring System’, Proceedings of the Second International Conference on Modern Trends in Engineering, Science, Management and Technology (MESMT-2026), Dakshina Mara Nadar Sangam College, Tirunelveli, 21st–22nd March, 2026, pp. 60, ISBN: 978-93-5782-235-0.
26.	K. Karthik , P. R. Jeeviga, S. Bavanipriya and C. Udhayadharshini, ‘Intelligent Load Priority Controller for Brownout Protection’, International Conference on Modern Trends in Engineering, Science, Management and Technology (MESMT-2026) at Dakshina Mara Nadar Sangam College, Tirunelveli, 21 st –22 nd March, 2026, pp. 63, ISBN: 978-93-5782-235-0.



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

27.	S. Kowsalya, S. Divya, G. Jayasree and Dr. S. Ragul , 'IoT Enabled Smart Milk Adulteration Detection Device', International Conference on Modern Trends in Engineering, Science, Management and Technology (MESMT-2026) at Dakshina Mara Nadar Sangam College, Tirunelveli, 21 st –22 nd March, 2026, pp. 59, ISBN: 978-93-5782-235-0.
28.	C. Deebakumar, R. Gokul, P. Gokulnath and Dr. T. Rajamanikandan , 'Smart Battery Bank with Integrated Battery Management System', International Conference on Modern Trends in Engineering, Science, Management and Technology (MESMT-2026) at Dakshina Mara Nadar Sangam College, Tirunelveli, 21 st –22 nd March, 2026, pp. 9, ISBN: 978-93-5782-235-0.
29.	A. Hariharan, A. Selva Ganesh, M. Sakthivel and P. Tamilnesan , 'Real-Time Load Forecasting Using Light Weight Machine Learning Models on STM32', International Conference on Modern Trends in Engineering, Science, Management and Technology (MESMT-2026) at Dakshina Mara Nadar Sangam College, Tirunelveli, 21 st –22 nd March, 2026, pp. 25, ISBN: 978-93-5782-235-0.
30.	Adithya S., Kabilan S., Poovarasam M. and Tamilnesan P. , 'LoRa-Based Smart Agricultural Field Monitoring System', International Conference on Recent Trends in Engineering and Technology (ICRTET'26) at Gojan School of Business and Technology, Chennai, 25 th –26 th March, 2026, pp. 43, ISBN No. 978-81-993196-7-7.
31.	P. Arunkumar, I. Athitya, N. Bhuvanesh and J. Karthikeyan , 'Ergonomic and Energy Efficiency Multi-Purpose Electric Cleaning Stick', International Conference on Power Systems, Communication Engineering and Management Studies at Srivivasan Engineering College, Perambalur, 27 th March, 2026, pp. 10, ISBN: 978-93-5782-349-4.
32.	P. S. Hariharan, A. Sathish, M. Vignesh and J. Karthikeyan , 'Smart Beekeeping System using ESP32 for Rural Entrepreneurs', International Conference on Power Systems, Communication Engineering and Management Studies at Srivivasan Engineering College, Perambalur, 27 th March, 2026, pp. 73, ISBN: 978-93-5782-349-4.
33.	Manoj V., Nikhil T., Saravanan M. and Dr. P. Arul , 'IoT Based Battery Conditions Monitoring System for Electric Trolley', International Conference on Advancement in Science, Engineering and Management (INCON 2026) at Yenepoya University, Bengaluru Campus, 27 th –28 th March, 2026, pp. 116, ISBN: 978-81-995146-1-1.
34.	Dr. T. Sengolrajan , S. Sudhakar, R. Ranjith and A. Adithya, 'Automatic Hair Dryer with Temperature and Speed Control', International Conference on Industry 4.0, Smart Grids and Advanced Manufacturing Technologies (ICISAMT-2026) at Study World College of Engineering, Coimbatore, 30 th January, 2026.



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

35.	S. Revathi , K. Rajalakshmi, N. Deepika and M. Aarthi Sree, 'Intelligent Medicine Box for Patient Care', International Conference on Green Computing for Communication Technologies (CGCCT 2026) at Sona College of Technology, Salem, 19 th –20 th February, 2026.
36.	S. Revathi , Nithisha R., A. Dinoshiva and C. Kokilavani, 'Development of Smart Wearable Rescue Belt for Human Under Water and Emergency Rescue', International Conference on Green Computing for Communication Technologies (CGCCT 2026) at Sona College of Technology, Salem, 19 th –20 th February, 2026.
37.	S. Revathi , S. Kisha and C. Kokila, 'Automated Electronic Component Identification and Speech Based Support System', International Conference on Green Computing for Communication Technologies (CGCCT 2026) at Sona College of Technology, Salem, 19 th –20 th February, 2026.
38.	Aswin J. H., Gokul S., Vigneshwaran M. and Dr. T. Sengolrajan , 'Design and Development of a Smart Temperature Controlled Sustainable Packaging System from Agriculture Waste', International Conference on Digital Technologies and Smart Engineering Systems (ICDTSES-2026) at NIT, Puducherry, 27 th –28 th February, 2026.
39.	Dr. T. Sengolrajan , S. A. Dharanadharan, S. Athavan and A. Jacob, 'Design and Development of an Arduino Based Sensor Integrated Eco-Friendly Curd to Butter Milk Converter', International Conference on Next Generation Engineering and Computational Technology (ICNGECT-2026) at A. V. C. College of Engineering, Mayiladuthurai, 4 th –5 th March, 2026.