



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

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NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY PUBLICATIONS - International / National Journals

S. No	DETAILS
ACADEMIC YEAR 2025-2026	
1.	K.Chanthirasekaran, S.Supriya, V.Aruna, W.Nancy, S.Kumaran and P.Tamilnesan , 'SnS ₂ /MWCNT hybrid electrodes with exceptional energy density and cycling stability for supercapacitors', Diamond and Related Materials, ISSN: 0925-9635, Article No. 113741, May 2026, DoI: https://doi.org/10.1016/j.diamond.2026.113741 , I.F:5.1, SCIE, Science Direct, Q1.
2.	Dr.S.Ragul, Eswar.B, Rithik.A and Thirukumaran.M , 'An Autonomous Electric Driven Portable Fodder Cutting Machine for Agricultural Application', International Journal of Recent Development in Engineering and Technology, ISSN:2347-6435,Vol.15,No.3, March 2026, pp.357-364, DoI: https://www.ijrdet.com/files/Volume15Issue3/IJRDET_0326_70.pdf
3.	S.Athavan, S.A.Dharanidharan, A.Jacob and T.Sengolrajan, 'Design and Development of an Arduino Based Sensor Integrated Eco Friendly Curd to Butter Milk Converter', International Journal of Advanced Trends in Engineering and Management, ISSN.NO:2583-7052, April 2026, pp.64-70,DoI: https://ijatem.com/wp-content/uploads/2026/04/ICNGECT_2026_012.pdf .
4.	Aiswarya Sreejith, M.Radha,G.Subhaparameshwari and Mrs.S.Revathi, 'Automatic Multi-Functional Agricultural Robot for Smart Crop', International Journal of Science, Engineering and Technology, ISSN:2348-4098, DOI: https://doi.org/10.5281/zenodo.19675985 ,Vol.14, No.2, April 2026,pp.1-6.
5.	S.Revathi, A.Dinoshiya, C.Kokilavani, and R.Nithisha , 'Development of a Smart Wearable Rescue Belt for Human Under Water and Emergency Rescue', International Journal of Versatile Research and Analysis, ISSN:2984-8903,Vol.4, No.4, April 2026,pp.577-582,DoI: DOI:10.56975/ijvra.v4i4.704010.
6.	Ashwin J H, Gokul S and Vigneshwaran J and Dr.T.Sengolrajan, 'Design and development of a Smart Temperature Controlled Sustainable Packaging System from Agriculture Waste', International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.14, No.2, April 2026, , pp. 1-7, Doi: https://doi.org/10.5281/zenodo.19475939 .
7.	S.Vinoth Kumar, P.Thamizhazhagan, K.Karthik , and S.Sevvanthi, 'Synthesis of Na-MOF-derived N-doped carbon/CeO ₂ hybrid architectures for advanced electrochemical energy storage', Journal of Materials Science-Materials In Electronics, ISSN: 0957-4522, Vol.37, Article No.756, April 2026, DoI: https://doi.org/10.1007/s10854-026-17034-0 , I.F:2.8, SCIE, Springer,Q2.



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8.	Rajukkannu Shankar , Ramasamy Gandhi, Kabilan Mohanraj and Androse Joseph Sheela, 'Class E Power amplifier design and Optimisation for internet of things application using IAO Strategy', International Journal of Mobile communications, ISSN:1470-949X, Vol.27, No.3, pp.282-299, April 2026, DoI: https://doi.org/10.1504/ijmc.2026.10075062 , I.F:1.1, SCI, Q4.
9.	R.Ranjith,S.Sudhakar, A.adhithya and Dr.T.Sengolrajan, 'Automatic Hair Dryer with Temperature and Speed Control', International Journal of Scientific Research and Engineering Trends, ISSN:2395-566X, Vol.12, No.2, March-April 2026, pp.1-6.DoI: https://doi.org/10.5281/zenodo.19675047
10.	S.Revathi, M.Aarthi Sree, N.Deepika and K.Rajalakshmi , 'Intelligent Medicine Box for Patient Care', International Journal of Scientific Research and Engineering Trends , ISSN:2395-566X, Vol.12, No.2, March-April 2026, pp.1-6,DoI: https://doi.org/10.5281/zenodo.19672584
11.	R.Deebika, S.K.Dharshana and N.Thrishna , 'IoT Based Predictive Monitoring System of Oxygen, Temperature and Human Density with Smart alert Mechanism', International Journal of Scientific Research and Engineering Development, ISSN:2581-7175,Vol.9, No.2, March-April 2026, pp.138-144. DoI: https://doi.org/10.5281/zenodo.19003664 .
12.	P.Tamilnesan, G.Devaprakash and J.Mouleeshwaran , 'Comprehensive Power System Studies of a 13.8KV Network Including Load Flow, Short Circuit, Motor Acceleration, Power Factor Improvement, Transient stabilities and Harmonic Analysis using ETAP', International Journal of scientific Research & Engineering Trends, ISSN:2395-566X, Vol.12, No.2, March-April 2026, pp.1-20, DoI: https://doi.org/10.5281/zenodo.19383047 .
13.	S.Yuvabalan, K.Gowtham, V.Sachin and Dr.R.Shankar , 'ESP32 Based Portable Fire Detection and automated Suppression System', Journal of Emerging Technologies and Innovative Research (JETIR), ISSN:2349-5162,Vol.13, No.3, March 2026, pp.6-12, DoI: https://www.jetir.org/papers/JETIR2603302.pdf
14.	Deebika.R. and Sankarganesh.R, 'Implementation of New Single Phase Multilevel Inverter Technology With Reduced Number of Switches for PV Grid', International Journal of Energy Research, ISSN:0363-907X, Vol.2026, No.1, SCIE, March 2026,I.F:4.2, Q1, p.7677967, 15 pages, DoI: https://doi.org/10.1155/er/7677967 .
15.	Dr. R. Shankar, S. Harshini, S. Pooja and K. Sona , 'Smart Fault Detection and Recovery System for Industrial Machinery', International Journal of Scientific Research and Engineering Trends, ISSN: 2395-566X, Vol.12, No.2, February 2026, pp.1-10, DoI: https://doi.org/10.5281/zenodo.19476142 .
16.	R.Deebika, V.Kokila, S.Maheshwari and P.Vinothini , 'Echosafe Smart Voice-Driven Personal Safety Device', International Journal for Science and Advance Research in Technology, ISSN:2395-1052,Vol.12, No.2, pp.146-152, DoI: https://doi.org/10.5281/zenodo.18893662 , February 2026.



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17.	R.Gopalakrishnan, S.Ajay , K.Manikandaprabu and S.Santhosh Kumar , 'Implementation of an Automated Transformer Rewinding system', International Journal of Scientific Research and Engineering Trends, ISSN:2395-566X, Vol.12, No.1, February 2026, pp.1-8, DoI: https://doi.org/10.5281/zenodo.18833928 .
18.	K.Mohanraj, K.Manojkumar , K.Monish and G.Nickson , 'Development of an AI Driven Sustainable Livestock Protection system against Insects to Improve Cattle Health for the benefit of Cattle Growers', Iconic Research And Engineering Journals, ISSN:2456-8880, Vol.9.No.8, pp.1069-1075, February 2026, DoI: https://doi.org/10.64388/IREV918-1714471 .
19.	Dr.T.Rajamanikandan, M.Dhanush , U.Karthikeyan and A.Sam , 'Smart Eco-Friendly Peacock Deterrent System for Sustainable Crop Protection', Iconic Research And Engineering Journals, ISSN:2456-8880, Vol.9. No.8, pp.1674-1679, DoI: https://doi.org/10.64388/IREV918-1714500 , February 2026
20.	J.Karthikeyan, R.Hariharan , S.Sakthi Deva and A.Muzamil , 'AI Enabled smart Modular Cutting System with Intelligent Control for Vegetables', Iconic Research and Engineering Journals, ISSN:2456-8880, Vol.9, No.8, pp.1720-1725, DoI: https://doi.org/10.64388/IREV918-1714526 , February 2026.
21.	J.Karthikeyan, V.Ajay , R.Kishore and S.Pradeepkumar , 'Smart Automated Onion Skin Peeling Machine using Parallel Roller Mechanism', Iconic Research and Engineering Journals, ISSN:2456-8880, Vol.9. No.8, pp.1726-1732, February 2026, DOI: https://doi.org/10.64388/IREV918-1714527 .
22.	P.Jegan , M.Ishaq , E.Saran and C.Gowrishankar , 'An IoT based Electric Trolley System with Integrated ON-OFF and Directional Drive Control', International Journal of Computational Research in Science and Technology, ISSN:3108-0871, Vol.2, No.1, February 2026, pp.115-123. DOI: https://doi.org/10.5281/zenodo.18834644 .
23.	Dr.T.Rajamanikandan, K.Gokulnath , T.Kishore and I.Mohammed Imthiyas , 'AI-Enabled smart Electronic Integrated Eco-Friendly Toys', Iconic Research and Engineering Journals, ISSN:2456-8880, Vol.9.No.8, pp.1353-1359, February 2026, DOI: https://doi.org/10.64388/IREV918-1714481 .
24.	Dr.S.Ragul, V.Sivakumar , C.Sudhan Aghash and G.Vishnukumar , 'Smart Poultry Waste Collection using an IoT-Controlled Movable Conveyor System', International Journal of Scientific Research and Engineering Trends, ISSN:2395-566X, Vol.12, No.1, February 2026, pp.1-8, DoI: https://doi.org/10.5281/zenodo.18834843 .
25.	P.Akilan , T.Ananth Kumar , K.Jayasurya and Dr.T.Sengolrajan, 'IoT-Enabled Smart Onion Preservation System for Post-Harvest Loss Reduction', International Journal of Computational Research in Science and Technology, ISSN:3108-0871, Vol.2, No.1, February 2026, pp.106-114, DoI: https://doi.org/10.5281/zenodo.18832824 .



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26.	Dr.S.Ragul, S.Joel, S.Manikandan and S.Selvakumar , 'Animal Deterrent System for Domestic Areas', International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.14, No.1, February 2026, pp.1-9, DoI: https://doi.org/10.5281/zenodo.18834354 .
27.	Sengolrajan Thanasingh , Thirumalai Muthusamy, Mohit Bajaj and Mebratu Sintie Geremew, 'Optimisation-driven technical, economic and environmental enhancement of renewable and EVCS-integrated faulted Indian distribution networks using DFACTS devices', Energy Exploration & Exploitation, Sage, ISSN:0144-5987, February 2026, DoI: https://doi.org/10.1177/01445987261425281 , I.F:1.6, SCIE, Q2.
28.	R.Ganeshram, V.Kamal Govindhan, R.Sri Hari Prasath and P.Tamilnesan, 'Digital Twin Based Microgrid Monitoring and Control System', International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.14, No.2, January 2026 pp.1-7, https://doi.org/10.5281/zenodo.19384084 .
29.	V.Balakrishnan, S.Boobalan, R.Karthikraja and P.Sridhar, 'Short Circuit Fault Detection and Automated Reporting System for Power Utility using STM32 and Lora in Distribution Line', International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.14, No.1, January 2026, pp.1-6. DOI: https://doi.org/10.5281/zenodo.18833746 .
30.	A.Bharath, I.Gobikrishanan, S.Sakthivel and Dr.P.Arul, 'Design and Fabrication of Electrical Platform Trolley', International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.14, No.1, DOI: https://doi.org/10.5281/zenodo.18835003 , January 2026, pp.1-6.
31.	K.Karthik, M.Harish, S.Samadhushek and D.Vinothkumar , 'Design and Implementation of Smart Multi Socket Power System for Efficient Monitoring, Control and Management of Domestic Appliances', International Journal of Science, Engineering and Technology, ISSN:2348-4098, Vol.14, No.1, DoI: https://doi.org/10.5281/zenodo.18833524 , January 2026, pp.1-10.
32.	S.Usha, Anju Anil Jalaja, Sampath Anbazhagan and U.Arun Kumar, 'Sensitivity enhanced terahertz plasmonic metasurface biosensor based on symmetrical graphene-gold-silver resonators for breast cancer biomarker detection', Results in Physics, Science Direct, ISSN:2211-3797, Vol.82, Article.108607, DoI: https://doi.org/10.1016/j.rinp.2026.108607 , I.F:4.6, SCIE, Q1, February 2026.
33.	S.Jaganathan, M.Kabilan , D.Varshney, S.Singh, R.Dhairiyasamy and D.Gabriel, 'Optimizing Squirrel Cage Rotor Design: Combined Effects of Bar Inclination and Intermediate Rings', Archives of Metallurgy and Materials, ISSN:1733-3490, Vol.70, No.4, pp.1927-1935, December, 2025, DOI: https://doi.org/10.24425/amm.2025.156279 , I.F:0.70, SCIE, Q3.
34.	Sunder Ramasamy, Brindha Mohanraj, Sridhar Pushpanathan , Thenmozhi Elumalai, Prabu Kaliyaperumal, Rajakumar Perumal, 'Deep Retina: a multimodal framework for early diabetic retinopathy detection and progression prediction', International Journal of Informatics and Communication Technology (IJ-ICT), ISSN:2252-8776, Vol.15, No.1, December 2025, pp.152-160, DOI: http://doi.org/10.11591/ijict.v15i1.pp152-160 , I.F:0.174, Scopus, Q4.



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35.	Prabu Kaliyaperumal, Palani Latha, Selvaraj Palanisamy, Sridhar Pushpanathan , Anand Nayyar, Balamurugan Balusamy and Ahmad Alkhayyat, 'SiamIDS: A Novel Cloud-Centric Siamese Bi-LSTM Framework for Interpretable Intrusion Detection in Large-Scale IoT Networks', Computer Standards & Interfaces, ISSN: 0920-5489, December 2025, DOI: https://doi.org/10.1016/j.csi.2025.104119 , I.F:3.1, SCIE, Elsevier, Q1.
36.	R.Gopalakrishnan and Kumar R Bharani, 'Stability enhancement in hybrid microgrids: a dual approach using enhanced artificial physics and particle swarm optimization', Expert Systems with Applications, ISSN:0957-4174, Vol.303, Article.130228, December, 2025, DOI: https://doi.org/10.1016/j.eswa.2025.130228 , I.F:7.5, SCIE, Elsevier, Q1.
37.	P. Arul , K. Arulvendhan, R. Satheesh, S. Banumathi, 'Green production of n-type Zn _{1-x} In _x O 2D nanoflakes and the photo-electrical characteristics of p-Si/n-Zn _{1-x} In _x O heterojunction diodes', Optical and Quantum Electronics, November 2025, ISSN.No:0306-8919 Vol.57, Article.No.631, DoI: https://doi.org/10.1007/s11082-025-08550-0 , I.F:4, SCIE, Springer.
38.	Sampath Anbazhagan , Maria Kalavathy Gnanamani, U.Arun Kumar, Ngaira Mandela, 'Machine Learning -Enhanced High sensitivity hemoglobin detection using a Kretschmann-based SPR biosensor with Optimized Copper and silver layers', Chemical Engineering Journal, Chemical Engineering Journal, October 2025, ISSN:1385-8947,Vol.524, No.15, pp.169485, DoI: https://doi.org/10.1016/j.cej.2025.169485 , I.F:13.2, SCIE, Elsevier,Q1.
39.	Hanuumesh, Arul Ponnusamy , Dhamodharan Selvaraj,Tanuja Koppa Shankaregowda, Venugopal Narasimhachar and Ananda Marilingappa Halasiddappa, 'Implementation of Fuzzy in DQ Control of PV based Inverter with Plug-in Electric Vehicles', International Journal of Applied Power Engineering (IJAPE), September 2025, ISSN: 2252-8792, Vol.14, No.3,pp.666-675,DOI: http://doi.org/10.11591/ijape.v14.i3.pp666-675 ,I.F:1.55,Scopus,Q2.
40.	Ratchagaraja Dhairiyasamy, Shankar Rajukkannu , Deekshant Varshney and Subhav Singh 'Comparative Evaluation of Mono and Hybrid Nanofluids in Loop Heat Pipe-cooled Bifacial PV Systems under Simulated Irradiance Conditions', Applied Thermal Engineering, September 2025, ISSN:1359-4311, DoI: http://dx.doi.org/10.2139/ssrn.5280404 , I F:6.9, SCIE, Elsevier, Q1.
41.	Shankar Rajukkannu , R.Dhairiyasamy, A.Althobaiti and S.Singh 'Electrochemical Synthesis and Characterization of redox-tunable organometallic complexes via controlled potential electrolysis,' Digest Journal of Nanomaterials and Biostructures, July 2025, ISSN:1842-3582, Vol.20, No.3, pp.737-751, DOI: https://doi.org/10.15251/DJNB.2025.203.737 , IF:1.3,SCIE, Q3.



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42.	R.Hemalatha, K.Arunkumar, K.Karthik and D.M.Kalaiselvi ‘Core–shell assembly of NiMoO ₄ @g-C ₃ N ₄ /RGO nanoarrays as for high-performance supercapacitors,’ Journal of Materials Science: Materials in Electronics, July 2025, ISSN: 0957-4522, Vol.36, No.21, Article.No.1332, pp.1-15, DOI: https://link.springer.com/article/10.1007/s10854-025-15409-3 , IF:2.8,SCIE, Springer,Q2.
43.	Pierre Subesh, S.M.Kamali, V.Malathy, Shankar Rajukannu , Ratchagaraja Dhairiyasamy, Deekshant Varshney, Subhav Singh and Elangovan Murugesan, ‘Impact of Energy Management Systems on the Efficiency of Electrical Testing Equipment in Automotive Research’, Journal of Mines, Metals and Fuels, June 2025, ISSN:0022-2755,Vol.73,No.6,DOI: https://doi.org/10.18311/jmmf/2025/49009 , IF:0.2, Scopus, Q4.