



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

ACADEMIC YEAR 2024-2025

FACULTY PUBLICATIONS – International / National Journals

SL. NO	DETAILS
ACADEMIC YEAR 2024-2025	
1	R.Shankar and R.Gandhi, ‘A Comprehensive Study of Power Amplifier Classes: Design Parameters and Efficiency analysis with a Focus on Class E PA’, Journal of Systems Engineering and Electronics, ISSN.No: 1671-1793, Vol.34, No.8, August 2024, pp.54-64, DoI: 20.14118 .jsee.2024.V34I8 .1856 ,Scopus.
2	S.Ragul and P.S.Raghavendran, ‘Augmenting Microgrid Control with GHNO for efficient BLDC Motor Integration and Renewable Energy Utilization’, Electrical Engineering, available online 1 st October, 2024, SCIE, DoI: https://doi.org/10.1007/s00202-024-02697-X .
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, SCI, DoI: https://doi.org/10.1016/j.optmat.2024.116336 , available online 24 th October, 2024, SCIE.
4	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, Doi: https://doi.org/10.30955/gnj.06443 , I.F:1.0,SCIE.
5	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, available online from December, 2024, Doi: http://doi.org/10.1007/s42835-024-02116-y , I.F: 1.6, SCIE.
6	Thavamani Jeyaraj, Arul Ponnusamy and Dhamodhran Selvaraj, ‘Hybrid Renewable Energy Systems Stability Analysis through future advancement Technique: A review’, Applied Energy, Elsevier, ISSN: 0306-2619, January 2025, pp.1-28, published in online, I.F:10.1,SCIE, DoI: https://doi.org/10.1016/j.apenergy.2025.125355 .
7	Shankar Rajukkannu , Wasurat Bunpheng, Ratchagaraja Dhairiyasamy and V.Gopinath, ‘Efficiency improvement in silicon and perovskite solar cells through nanofluid cooling using citrate and PVP stabilized silver nanoparticles’, Scientific Reports, ISSN:2045-2322, Vol.15, Article.No.833, January, 2025, published in online, I.F: 3.8,SCIE, DoI: https://doi.org/10.1038/s41598-025-85374-8 .
8	S.Ragul ,P.S.Raghavendran and S.Ramesh, ‘Optimization off Bidirectional Converters and BLDC Motor Control in Microgrids using Priority adaptive Particle Optimization Driven Boosting Model’, Journal of Electrical Systems, ISSN: 1112-5209, Vol.20, No.11s, February 2024, pp.2201-2219,IF:0.5,Scopus, DoI: https://journal.esrgroups.org/jes/article/view/7741/5295 .
9	P.Tamilnesan , P.Aadhikesavan, R.Dharun and P.Siva, ‘Enhancing the Efficiency of Solar Dryer using Thermal Imaging Technique’, International Journal of Science, Engineering and Technology, Vol.13, No.1, ISBN.No: 2348-4098, pp.1-9, February 2025,DOI: /10.61463/ijset.vol.13.issue1.140 .



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10	Dr.T.Sengolrajan , T.Abisheik, P.Anandan and N.Gowtham, 'Development of One App and One Village for Connecting Rural Community in a Single Platform', Vol.13, No.1, ISBN. No: 2348-4098, pp.1-8, February 2025, DOI: 10.61463/ijset.vol.13.issue1.133
11	Dr.T.Sengolrajan , V.Dharshini, M.Swathi and A.Thabuna, 'Design and Development of Tablet Making Machine using IoT', International Journal of Scientific Research & Engineering Trends, Vol.11, No.1, ISBN.No:2395-566X, pp.786-791, Jan-Feb,2025, DOI: 10.61137/ijset.vol.11.issue1.165 .
12	J.Karthikeyan , A.Dhanasekaran, B.Srinivasan, and E.Suthiksan,' Smart power theft detection and alert system to leveraging technology for real-time prevention.', International Journal of Science, Engineering and Technology, Vol.13, No.1, ISBN. No: 2348-4098, pp.1-9, February,2025, DOI: 10.5281/zenodo.15068834 .
13	C.Gowrishankar , S.Girieshwaran, M.Keerthivarman and C.Naveen, 'Optimization of Loading and Storage Mechanism for Enhanced Material Handling in the Motorized Cart', International Journal of scientific Research & Engineering Trends, Vol.11, No.1, Jan-Feb 2025, ISSN: 2395-566X, pp.804-810, DOI: 10.61137/ijset.vol.11.issue1.168 .
14	S.Ragul , N.Dharanidharan, K.Mouleeswaran and A.Santhosh Kumar,' AI-ML Powered Smart Crop Monitoring System for Preventing Peacock Movements in Agriculture', International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN:2348-4098, pp.1-8, March,2025, DOI: 10.61463/ijset.vol.13.issue1.142 .
15	S.Revathi , R.Brundha, M.Priyadharshini and V.Vijika, 'Design of Smart Agriculture Wearable for Enhanced Productivity', International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN: 2348-4098, pp.1-8, February 2025, DOI: 10.61463/ijset.vol.13.issue1.144 .
16	K.Karthik , R.Dhanush, V.Thirumalai and P.Dhayanithi, 'Development and Fabrication of Automatic Chakali Making Machine using PLC', International Journal of Scientific Research & Engineering Trends, Vol.11, No.1, Jan-Feb, 2025, ISSN: 2395-566X, pp.811-817, DOI: 10.61137/ijset.vol.11.issue1.169 .
17	Dr.R.Shankar , T.Anushiya, C.Keerthana Shivani and K.Srinitha, 'Integrated Health Care Solution for Real Time Monitoring and AI-Assist Diagnosis for Senior Citizens', International Journal of Science, Engineering and Technology, Vol.13, No.1, ISSN: 2348-4098, pp.1-9, February 2025, DOI: 10.61463/ijset.vol.13.issue1.143 .
18	Dr.P.Arul , S.Akash, S.Parthib Ram and M.Yuvan Adhithya, 'Development of a Multidirectional Motorized Cart', International Journal of Scientific Research and Engineering Development, Vol.8, No.1, Jan-Feb 2025, pp.1366-1371, DoI: 10.5281/Zenodo.15152222 .
19	Dr.T.Rajamanikandan , R.Arun, L.Devakumar and R.Sridhar, 'Advanced Automation Thermal Treatment System for Banana Suckers', International Journal for Science and Advance Research in Technology, Vol.11, No.2, February, 2025, ISSN.No:2395-1052, pp.145-151, Doi: 10.5281/Zenodo.15044492 .
20	S.Ragul , V.Dhayalan, V.Hari Gokul and M.Leyash, 'An Investigations into Combined Flow and Pressure Control for Industrial Pumps using adaptive MPC', International Journal of Engineering Development and Research, Vol.13, No.1, March 2025, ISSN:2321-9939, pp.144-151. Doi: 10.1729/Journal.44196 .



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21	R.Gopalakrishnan , V.Heema Chandran, T.Shomesh and M.Kamalesh, 'Design and Performance Analysis of a Hybrid Inverter for Solar and Wind Energy System', International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March, 2025, ISSN: 2584-2137, pp.555-562, Doi: 10.47392/IRJAEH.2025.0078 .
22	Sridhar P , Manoj A, Valan Joshi J and Meiyarasu S, 'AI-Driven Autonomous Hygiene Solution for Public Toilet', International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN: 254-2137, pp.674-681, Doi: 10.47392/IRJAEH.2025.0094 .
23	K.Karthik , P.Kishorekumar, S.Hariharan and V.Pradeep, 'Automated Conveyor Belt Printing System for Small Scale Industrial Commodities using PLC', International Research Journal on Advanced Engineering Hub, Vol.3, No.3, March 2025, ISSN: 254-2137, pp.792-799, Doi: 10.47392/IRJAEH.2025.0111 .
24	Ratchagaraja Dhairiyasamy, Shankar Rajukkannu , Deekshant Varshney, Subhav Singh, Deepika Gabiriel and Elangovan Murugesan, 'Examining the Effects of Neem Leaf Extract Additive on Biodiesel Blends for Improved Fuel Efficiency and Engine Performance in a Low Heat Rejection Engine', Journal of Environmental Nanotechnology, ISSN: 2279-0748, Vol.14, No.1, March 2025, pp.1-15, I.F:0.5, Scopus, DoI: https://doi.org/10.13074/jent.2025.03.2511294 .
25	Revathi Subramaniam , Androse Joseph Sheela and Abdullah Alwabli, 'Enhanced Cybersecurity and Cyber-attack detection in Smart DC Micro Grids using Blockchain Technology and SVM Technique', Ain Shams Engineering Journal, Elsevier, ISSN.No :2090-4479, Vol.16, April 2025, IF:6, SCIE, DoI: https://doi.org/10.1016/j.asej.2025.103400 .
26	T.Yuvaraj, T.Sengolrajan , Natarajan Prabakaran, K.R.Devabalaji, Akie Ueshara and Tomonobu Senjyu, 'Enhancing Smart Microgrid Resilience and Virtual Power Plant Profitability through Hybrid IGWO-PSO Optimization with a Three-Phase Bidding Strategy', IEEE Access, published in online in April 2025, ISSN: 2169-3536, DoI: 10.1109/ACCESS.2025.3565460 , I.F:3.4, SCIE.
27	Dr.T.Sengolrajan , J.H.Ashwin, K.Manojkumar and K.Monish, 'Organic Insect repellent Vaporizer for Cattle Protection using Microcontroller', ISAR-International Journal of Research in Engineering Technology, ISSN:2455-1341, Vol.10, No.2, Doi: https://zenodo.org/records/15296866 , March-April, 2025, pp.32-38.
28	Akilan P, Dhanush M, Jayasurya K and Dr.T.Sengolrajan , 'Implementation of Solar Powered Square Shaped Vertical Axis Mirror Reflection to Manage Peacock Movements in Agricultural Areas', ISAR-International Journal of Research in Engineering Technology, Vol.10, No.1, March-April, 2025, ISSN:2455-1341, pp.40-45, DoI: https://zenodo.org/records/15297184 .
29	R.Deebika , V.Kokila, N.Thrishna and P.Vinothini, 'Automatic Multi-Functional Water Bottle using ATmega Microcontroller', IJART, ISSN:2395-1052, Vol.11, No.4, April 2025, pp.1130-1135, DoI: http://www.ijart.com/automatic-multifunctional-water-bottle-using-atmega-microcontroller-103328