



NANDHA ENGINEERING COLLEGE

(An Autonomous institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NAAC with 'A+' grade)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year 2024-25

FACULTY JOURNAL PUBLICATION

S.No	Description	Count
1	SCI/SCIE Indexed	1
2	Scopus Indexed Journal	1
3	Scopus Indexed Conference	11
Total Publication		13*

*As on 25-02-2025

1. M. Vijayakumar, M. Ramasamy, **T. Jayakumar**, S. Dhivagar, V. Arun and R. Hemalatha, "Vehicle Accident Detection and Locating Using GSM and GPS," 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), Chennai, India, 2024, pp. 1-5, doi: 10.1109/IC3IoT60841.2024.10550407. ([IEEE Xplore](#), [Scopus Index Conference](#))
2. G. Nixon Samuel Vijayakumar; Vipin Sharma; S. Pradeep; **Pratheeba C**; T. Suresh Balakrishnan; Ramprasad Jat "Machine Learning Techniques for Predictive Maintenance in Industrial IoT Systems," 2024 International Conference on Science Technology Engineering and Management (ICSTEM), Coimbatore, India, 2024, pp. 1-5, doi: 10.1109/ICSTEM61137.2024.10560643. ([IEEE Xplore](#), [Scopus Index Conference](#))
3. G. Nixon Samuel Vijayakumar; Vipin Sharma; S. Pradeep; **Pratheeba C**; T. Suresh Balakrishnan; Ramprasad Jat "Enhancing Power Quality in Smart Grids Through Machine Learning Techniques," 2024 International Conference on Science Technology Engineering and Management (ICSTEM), Coimbatore, India, 2024, pp. 1-5, doi: 10.1109/ICSTEM61137.2024.10560607. ([IEEE Xplore](#), [Scopus Index Conference](#))
4. G. Nixon Samuel Vijayakumar; Vipin Sharma; S. Pradeep; **Pratheeba C**; T. Suresh Balakrishnan; Ramprasad Jat "Utilizing Machine Learning Techniques for Identifying and Diagnosing Integrated Circuit Faults," 2024 International Conference on Science Technology Engineering and Management (ICSTEM), Coimbatore, India, 2024, pp. 1-5, doi: 10.1109/ICSTEM61137.2024.10560775. ([IEEE Xplore](#), [Scopus Index Conference](#))



NANDHA ENGINEERING COLLEGE

(An Autonomous institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NAAC with 'A+' grade)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

5. G. Chandrasekaran, P. Pavithara, P. M. Dinesh, **V. Arun Kumar**, J. S. Sharanyanivasini and K. Kavin Kumar, "Low Power, High Speed Current Starved Ring Oscillator based ADC using 18nm FinFET Technology," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10724986. ([IEEE Xplore](#), [Scopus Index Conference](#))
6. **P. Jamuna**, S. Gokul, V. Sabarinath, K. S. Sundara Vignesh and T. Gokul, "Air Filter for Carbon Emission Industries Using AI Technique," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10724092. ([IEEE Xplore](#), [Scopus Index Conference](#))
7. Melvyn Rodger B L; Karthikeyan A; **Manjula M**; Murugesan A; et al "Power Factor Improvement using Modified STATCOM in Power System Distribution," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-7, doi: 10.1109/ICCCNT61001.2024.10724510. ([IEEE Xplore](#), [Scopus Index Conference](#))
8. T. Jayaraman, M. Vijayakumar, **T. Jayakumar**, A. Murali, B. Karthikeyan and T. Suriya, "A Conceptual Design of Remote Controlled Solar Panel Cleaning Robot," 2024 5th International Conference on Smart Electronics and Communication (ICOSEC), Trichy, India, 2024, pp. 387-391, doi: 10.1109/ICOSEC61587.2024.10722191. ([IEEE Xplore](#), [Scopus Index Conference](#))
9. S Geethanjali; P Malathy; P Ponnuragan; **R Vijayalakshmi**; S Hariprasath; S Gokula Brindha "Dynamic Current Regulation in a Bidirectional AC-DC converter for Renewable Energy Applications," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10726046. ([IEEE Xplore](#), [Scopus Index Conference](#))
10. Muthubalaji, S., Kamble, V., Kuralkar, V., Tushar Waghmare., **T. Jayakumar** ; An innovative muted ant colony optimization (MAPO) controlling for grid PV system. Int. j. inf. tecnol. 17, 333–345 (2025). <https://doi.org/10.1007/s41870-024-02178-1> ([Springer - Scopus Index Journal](#))
11. S. Karthikkumar, A. Sheela and **G. Ramani**, "A Novel Dual switch-ML inverter with Reduced Components," 2024 First International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC), Davangere, India, 2024, pp. 1-6, doi: 10.1109/ICICEC62498.2024.10808979. ([IEEE Xplore](#), [Scopus Index Conference](#))



NANDHA ENGINEERING COLLEGE

(An Autonomous institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NAAC with 'A+' grade)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

12. S. Karthikkumar, A. Sheela and **G. Ramani**, "A Novel Auxiliary cell based Improved Quadratic High Gain DC-DC Converter with MPPT Control," 2024 First International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC), Davangere, India, 2024, pp. 1-6, doi: 10.1109/ICICEC62498.2024.10808442. ([IEEE Xplore](#), [Scopus Index Conference](#))

13. **Pratheeba, C.**, Sukumar, P. Hybrid HGRN-SCSO technique for enhanced prediction of remaining useful life in EV batteries. Electr Eng (2025). <https://doi.org/10.1007/s00202-024-02913-8> (Springer - SCI Index Journal)

G. Ramani
20/11/24
HOD/EEE

HEAD OF THE DEPT,
DEPT OF ELECTRICAL & ELECTRONICS ENGG
NANDHA ENGG COLLEGE.
ERODE - 638 052.