

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2025 to June 2026

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B.E. - ELECTRONICS & COMMUNICATION ENGINEERING

International Journals:

1. **ECE/2025-26/IJP/12** Dr. G. Durga, ASP/ECE, Mr. B. Girish Babu, Ms. Ela. Ezhilarasi, Ms. G. Isha Ambika, UG-ECE 2019-2023 Batch students published a paper titled “Performance Comparison of Junctionless TreeFET with Vertically Stacked Nanosheet” in the Journal Russian Microelectronics, vol. 54, pp. 297-302, August 2025. (Scopus Indexed, SJR: 0.194, Q4) DOI: <https://doi.org/10.1134/S1063739725600013>

International Conference:

1. **ECE/2025-26/ICP/3** Ms. V. S. Hemamala, UG-ECE 2022-2026 Batch, Mr. D. Kiruthick Raja, Dr. P. Kaythry, ASP/ECE published a paper titled “Use Case 9: Environment-Based Endurance Testing in Autonomous Vehicles” in AI for Good Global Submit 2025, pp. 793- 803. DOI: <https://www.itu.int/hub/publication/t-ai4g-ai4good-2025-1/>.
2. **ECE/2025-26/ICP/4** Ms. N. R. Anjana, Ms. D. Medha, UG-ECE 2021-2025 Batch students, Dr. S. Radha, Principal/SSN CE, Dr. S. Aasha Nandhini, AP/ECE published a paper titled “Design of MEMS based sensor for fuel density measurement” in the Proc. of 2025 1 st International Conference on Radio Frequency Communication and Networks (RFCoN) held at SASTRA Deemed to be university during June 19-20, 2025. DOI: <https://doi.org/10.1109/RFCoN62306.2025.11085345>
3. **ECE/2025-26/ICP/8** Ms. D. Sowmika, UG-ECE 2022-2026 Batch student, Dr. K. Muthumeenakshi, ASP/ECE, Ms. Anamika Arivu, Ms. R. N. Sirisha, UG-ECE 2022-2026 Batch students published a paper titled “Eco-Friendly Red Beet-Based Colorimetric Sensor for Cu²⁺ Detection in Water Using Embedded System and Machine Learning” in the Proc. of 8 th International Conference on Recent Innovation in Modern Science and Technology held at SSN CE during July 09-11, 2025.
4. **ECE/2025-26/ICP/12** Ms. A. Swarnalalitha, UG-ECE 2021-2025 Batch, Ms. S. Divya, RS/ECE, Mr. M. Smurith, Ms. A. Bhavithra, Dr. N. Venkateswaran, Prof/ECE published a paper titled “Nonlinear Optical Analysis of one dimensional Ge/ZnO, Photonic Crystal for Advanced Sensing and Communication Devices” in the Proc. of 16 th International Conference on Fiber Optics and Photonics 2024 held during December 12-15, 2024.

National Conferences:

M.E. - COMMUNICATION SYSTEMS & VLSI DESIGN

Journal

International Conferences

1. **ECE/2025-26/ICP/1** Mr. P. Vijayaraghavan, PG-VLSI 2023-2025 Batch, Dr. R. Amutha, Prpf/ECE published a paper titled “ASIC vs FPGA Realization of a Cryptographically Secure Random Number Generator Using Chaotic Map” in the Proc. of 2025 IEEE 5 th International Conference on VLSI Systems, Architecture, Technology and Applications (VLSI SATA) organized by Amrita Vishwa Vidyapeetham, Bengaluru Campus during May 23-24, 2025, pp. 1-6. DOI: 10.1109/VLSISATA65374.2025.11070201

RESEARCH SCHOLARS (FULL-TIME)

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RESEARCH SCHOLARS (FULL-TIME)

International Journals:

1. **ECE/2025-26/IJP/8** Ms. K. Vijayalakshmi, RS/ECE, Dr. S. Radha, Principal/SSN CE, Dr. K. Muthumeenakshi, ASP/ECE published a paper titled “Bunched Ag-BiOBr nanoflower modified carbon paste electrode with insitu DMG for nickel detection in effluent water” in Microchemical Journal, vol. 216, pp. 1-11, September 2025. DOI: <https://doi.org/10.1016/j.microc.2025.114668> (Clarivate Analytics, IF: 5.1)
2. **ECE/2025-26/IJP/10** Ms. A. J. Bhuvaneshwari, RS/ECE, Dr. P. Kaythry, ASP/ECE, Dr. R. Kishore, ASP/ECE, Mr. R. MuthuHarish, Engineer/Comcast published a paper titled “Post- Quantum enhanced Ascon for secure vehicular IoT data integrity” in Springer Nature’s Scientific Reports, vol. 15, pp. 1-18, July 2025. (Clarivate Analytics, IF: 3.9) DOI: <https://doi.org/10.1038/s41598-025-10503-2>
3. **ECE/2025-26/IJP/13** Thilak Sabareesh Malayalam Amarnath, Ms. S. Divya, RS/ECE, Subramanian Sakthinathan, Ching-Lung Chen, Dr. N. Venkateswaran, Prof/ECE, Te Wei Chiu published a paper titled “Hybrid Electrospun Carbon Nanofiber/Bi 2 MoO 6 Nanocomposites for Trace-Level Detection of Phenolic Aldehyde Vanillin in Food Samples” in the Journal ACS Applied Nano Materials, September 2025 (Published Online). DOI: 10.1021/acsanm.5c02595 (Clarivate Analytics, IF: 5.5)
4. **ECE/2025-26/IJP/16** Dr. K. J. Jegadish Kumar, ASP/ECE, Ms. A. J. Bhuvaneshwari, RS/ECE, Dr. P. Kaythry, ASP/ECE published a paper titled “Enhanced cryptosystem for resource-constrained devices with streamlined randomness analysis” in the Journal Cogent Engineering, vol. 12 (1), pp. 1-20, September 2025. DOI: <https://doi.org/10.1080/23311916.2025.2565364> (Clarivate Analytics, IF: 2.5).

International Conferences:

1. **ECE/2025-26/ICP/6** Dr. K. Muthumeenakshi, ASP/ECE, Ms. K. Vijayalakshmi, RS/ECE, Dr. S. Radha, Principal/SSN CE, Mr. R. Giridharan, Summer Intern 2024 published a paper titled “Green Colorimetric Detection of Nickel Ions Using Halim Mediated Polyvinylpyrrolidone Silver Nanoparticles in Treated Effluent with Onsite Monitoring” in the Proc. of 8 th International Conference on Recent Innovation in Modern Science and Technology held at SSN CE during July 09-11, 2025.
2. **ECE/2025-26/ICP/7** Ms. K. K. Mythili, RS/ECE, Dr. S. Radha, Principal/SSN CE, Dr. K. Muthumeenakshi, ASP/ECE, Dr. B. S. Sreeja, Faculty/CEG published a paper titled “Electrochemical Detection of Ethanol in Alkaline Medium Using MnO 2

Nanostructures” in the Proc. of 8 th International Conference on Recent Innovation in Modern Science and Technology held at SSN CE during July 09-11, 2025.

3. **ECE/2025-26/ICP/9** Ms. K. Vijayalakshmi, RS/ECE, Dr. S. Radha, Principal/SSN CE, Dr. K. Muthumeenakshi, ASP/ECE published a paper titled “Sustainable Synthesis of Bimetallic Oxide Nanomaterials for Hexavalent Chromium Detection” in the Proc. of 8 th International Conference on Recent Innovation in Modern Science and Technology held at SSN CE during July 09-11, 2025.
4. **ECE/2025-26/ICP/10** Ms. S. Divya, RS/ECE, Dr. N. Venkateswaran, Prof/ECE published a paper titled “Optimization of a Nanostructured Thin Film Based One Dimensional Photonic Crystal Bandpass Filter for NIR Satellite Imaging” in the Proc. of IEEE Space, Aerospace and Defence Conference (SPACE) 2025 held during July 21-23, 2025.
5. **ECE/2025-26/ICP/11** Ms. S. Divya, RS/ECE, Dr. N. Venkateswaran, Prof/ECE published a paper titled “Design and Analysis of Pressure Sensor Based on the One-Dimensional Photonic Crystal with Flexible Elastomer” in the Proc. of 16 th International Conference on Fiber Optics and Photonics 2024 held during December 12-15, 2024.

National Conferences: