Faculty Profile

1. Name: Shalini M S
2. Designation: Assistant Professor
3. Qualification: B E, M.Tech (Ph.D)
4. Email/LinkedIn/ORCID: shalinims@jssstuniv.in / 0000-0002-8025-6932
5. Work Experience: 10 years
6. Specialization: Materials, Nanoscience and Technology
7. Subjects Taught: Control systems, Basic Electronics, Internet of Everything, Signals and Systems , Digital signal Processing
8. Research Guidance: Nil
9. Publications: 3 journals 13 Conferences 4 book chapters

[1] "Evaluation of Synthesis and Characterization of Polystyrene, Polycarbazole and TTIP Nanofiber via Electrospinning Process", 17th International Conference on Advances in Computing, Control, and Telecommunication Technologies, Grenze International Journal of Engineering and Technology, June Issue. Grenze Scientific Society, 2026, 2, pp. 4915–4924, 2026, 2, pp. 4915–4924

[2] "Comprehensive Study of Morphological, Optical, and Electrical Properties of PCz-PS/Al2O3 Electrospun Nanofibers", 17th International Conference on Advances in Computing, Control, and Telecommunication Technologies, Grenze International Journal of Engineering and Technology, June Issue. Grenze Scientific Society, 2026, 2, pp. 4905–4914

[3] "Importance of Biomarkers and Demographic Data for Alzheimer's Disease Detection in the Early Stage", 17th International Conference on Advances in Computing, Control, and Telecommunication Technologies, Grenze International Journal of Engineering and Technology, June Issue. Grenze Scientific Society, 2026, 2, pp. 5363–5369.

[4] "Prediction of Surface Morphology and Gas Sensing Parameters from SEM Images Using Hybrid Deep Learning and Machine Learning Models", Lecture Notes in Networks and Systems, 2026, 1939 LNNS, pp. 43–53

[5] "Development And Experimental Analysis Of A Domestic Parabolic Trough Collector With Copper And Brass Receivers", International Journal of Applied Mathematics Volume 38 No. 9s, 2025 ISSN: 1311-1728 (printed version); ISSN:

1314-8060 (on-line version).

[6] “Zinc Silicate Doped PDMS-PVA Nanofibers Using Electrospinning Process for Air Filtration”, International Conference on Sustainable Technology (ICST)-2025. eBook ISBN: 978-981-95-9466-5; Print ISBN: 978-981-95-9465-8.

[7] “Morphological Analysis of PCz-PS/Al2O3 Electrospinning Nanofiber”, 16th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2025, Grenze International Journal of Engineering and Technology, 2025, 2, pp. 1840–1846.

[8] “A Global Three Wheeler Road Freight EV CARGO CART For Value Added Services”, Presented for publication the 4th International Conference on Artificial Intelligence and Smart Energy (ICAIS2024), organized by JCT College of Engineering and Technology, Coimbatore, India. Proceedings of Springer Publication. https://doi.org/10.1007/978-3-031-61475-0_17

[9] “Optimizing Electric Vehicle Battery Performance: A Comparative Analysis of ANFIS and AUKFM for SOC and SOH Estimation”, Presented for publication the 4th International Conference on Artificial Intelligence and Smart Energy (ICAIS2024), organized by JCT College of Engineering and Technology, Coimbatore, India. Proceedings of Springer Publication. https://doi.org/10.1007/978-3-031-61475-0_31

[10] “Estimation of the Limit of Detection and effect of flow rate on micro cantilever sensor”, 4th International Conference for Emerging Technology (INCET) , Belgaum, India. May 26-28, 2023. 979-8-3503-3575-0/23/$31.00 ©2023 IEEE

[11] “Robotic Arm Aided Thermal Screening System”, Presented at the International Conference on Automation, Computing and Renewable Systems, (ICACRS-2022), at Tamilnadu, India. Paper published in IEEE xplore ISBN: 978-1-6654-6084-2.

[12] “IoT-based garbage monitoring system” . CEMC 2022, Mumbai India in Grenze Journal of Engineering and Technology. Jan issue, October 29th – 30th 2022

[13] “Design and Development of CO2 sensor”, CENTCON 2022, Dayananda Sagar University, India December 22nd – 23rd 2022

[14] IoT -Powered Hydroponics system: A real monitoring and control system, ERCICA 2024 International conference, 15th-17th July, 2024

[15] Multimodal Playlist Recommendation System, 10th International Conference on ICT for Sustainable Development, Goa, India, July 17–19, 2025

10. Patents: Nil
11. Projects/Consultancy: Nil
12. Book(s) Published: Nil
13. FDPs organised/attended: Attended-12
14. Achievements: Nil
15. Professional Membership: Nil