Faculty Profile (Usha Rani C M)

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5. Work Experience: 7 years
6. Specialization: Nanoscience and Technology
7. Subjects Taught:
8. Research Guidance: Nil
9. Publications: 10-conferences, 4-Book Chapters, 3-Journals

[1] "Interfacial engineering in polyaniline hybrid nanocomposites: Role of compatibilizers and silane-modified carbon fibers in functional and optoelectronic applications", Journal of Materials Today Communications, 56 (2026) 116008. https://doi.org/10.1016/j.mtcomm.2026.116008

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[6] “Visual Cryptography Using Sigmoid & amp; Transposition Cipher Technique”, 17th International Conference on Advances in Computing, Control, and Telecommunication Technologies, , Grenze International Journal of Engineering and Technology, June Issue. Grenze Scientific Society, 2026.

[7] “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).

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[9] “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.

[10] “Internet Controlle Robotic Arm Rover”, Journal of Technology, An UGC care approved Group-2 Journal. Volume 12 Issue 9, September 2024. ISSN No: 10123407

[11] “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

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[13] “Performance Analysis of Piezo Resistive MEMS Cantilever for the Detection of VOCs”, International Conference on Smart Systems for applications in Electrical Sciences (ICSSES), 2023. 979-8-3503-4729-6/23/$31.00 ©2023 IEEE. DOI: 10.1109/ICSSES58299.2023.10200927

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sensor", 4th International Conference for Emerging Technology (INCET) , Belgaum, India. May 26-28, 2023. 979-8-3503-3575-0/23/$31.00 ©2023 IEEE

[15] "Implementation of Agribot to perform the elementary functions involved in farming", Presented for publication in the Seventh International Joint Colloquiums on CEMC-2022, at Mumbai, India. Paper published in Grenze International Journal of Engineering and Technology (Scopus Indexed), Jan Issue. ID: 01.GIJET.9.1.534_3

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[17] "Routing an electric vehicle for optimum energy consumption with EE-MAODV using NS3" Presented the paper in IEEE third international conference on ICICCS-2019 at Madurai, India.

10. Patents: Nil
11. Projects/Consultancy: Nil
12. Book(s) Published: Nil
13. FDPs organised/attended: Organized-0 , Attended-12
14. Achievements: Nil
15. Professional Membership: Nil