FACULTY RESEARCH PUBLICATIONS – ACADEMIC YEAR 2025–2026

Department of Mechanical Engineering

Sr. No.	Faculty Name	Department Name	Paper Title	Journal Name	Year
1	Mr. K Krishna Chaitanya	Mechanical Engineering	Experimental and statistical analysis of tribological properties in Stir-Cast Al12219 hybrid composites using Taguchi-GAR method	Interactions	2026
2	Mr. K Krishna Chaitanya	Mechanical Engineering	Study of epoxy resin content and curing conditions on the mechanical characteristics of hybrid natural-synthetic laminates	Interactions	2026
3	Dr. Sujeet Kumar	Mechanical Engineering	Investigation of microstructure and tensile behavior of GTAW welded duplex stainless steel 2205	Interactions	2026
4	Dr. Sujeet Kumar	Mechanical Engineering	Optimization of Mechanical Behaviour and Corrosion Performance of Fiber Laser Dissimilar Welding of SS202 and SS304 Using Taguchi–ANOVA Approach	Journal of The Institution of Engineers (India): Series D	2026
5	Dr. Sujeet Kumar	Mechanical Engineering	Corrosion Behaviour and Surface Modification Strategies of Stainless Steel Biomaterials: A Comprehensive Review	Journal of Bio- and Tribo-Corrosion	2025
6	Dr. Sujeet Kumar	Mechanical Engineering	Fabrication and Wear Performance Analysis of TiN-Co-CaF2 Solid Lubricant Coatings on Ti-6Al-4V via TIG Cladding for Aerospace Applications	Journal of Materials Engineering and Performance	2025
7	Dr. Sujeet Kumar	Mechanical Engineering	Effect of Pulsed GTAW Parameters on the Microstructure, Corrosion Resistance and Mechanical Properties of Super Duplex Stainless Steel Welds	JOM	2025
8	Dr. Sujeet Kumar	Mechanical Engineering	Predicting Wear Performance of Al6063 Hybrid Composites Reinforced With Multi-Ceramic Particles Using Experimental and ANFIS Approaches	Engineering Reports	2025
9	Gurumurthy Nathi	Mechanical Engineering	An overview of 3D printing technologies: materials, techniques, and emerging trends in additive manufacturing	Interactions	2025
10	Bathula Srinivas	Mechanical Engineering	Development of Smart Cooling Optimization System for CNC Machining Applications	Journal of Mechatronics and Automation, STM Journals Publications, Vol. 13, Issue 02, June 2026	2026
11	N. Vasudeva Rao	Mechanical Engineering	Taguchi-TOPSIS Methodology for Optimizing Electric Vehicle Charging: A Data-Driven Approach to Enhancing Charging Efficiency and Minimizing Energy Consumption	Recent Technologies and Innovations in Electronics and Photonics	2025
12	Gurumurthy Nathi	Mechanical Engineering	Advanced optimization of Al based hybrid matrix composites reinforced with TiC, waste glass and fly ash using statistical modeling for industrial applications	AIP Conference Proceedings	2025
13	Dr. Sujeet Kumar	Mechanical Engineering	Zero-waste additive manufacturing methods for a circular economy by recycling and lifecycle management	Interactions	2026
14	Dr. Sujeet Kumar	Mechanical Engineering	Eco-efficient additive manufacturing approaches for a sustainable future	AIP Conference Proceedings	2026
15	Dr. Sujeet Kumar	Mechanical Engineering	A comprehensive review of additive manufacturing in biomedical applications	AIP Conference Proceedings	2026
16	Dr. Sujeet Kumar	Mechanical Engineering	Emerging strategies for material recycling and reusability for sustainable additive manufacturing	AIP Conference Proceedings	2026

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17	Dr. Sujeet Kumar	Mechanical Engineering	Optimization of GMAW process parameters for dissimilar welding of SS202 and SS304	Interactions	2026

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