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DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Publications Academic

Year: 2025 -2026

Sr No.	Name of the author/s	Title of paper	Name of journal	ISSN number	Year of publication
1	Dr. Amit Subhash Shelake	Optimization of Ultrasonic Vibration Assisted Dissimilar laser welding of Inconel 625 and 316L stainless steel using a hybrid interpretable Artificial Intelligence framework	Journal of Engineering Materials and Technology	0094-4289	2026
2	Mr. Amol Balwant Rabade	Advances in Weed Detection: A Comparative Review of Deep Learning and Sensor-Based Methodologies	Journal of Sensor and Cloud Computing	3048-9199	2025
3	Mr. Rahul Anil Pasale	Application of Finite Difference Method Simulation for filling and solidification analysis	International Journal of Scientific Development and Research	2455-2631	2025
4	Mr. P. S. Ladgaonkar	Dynamic Analysis of Rotor Bearing System with combined unbalance and bearing fault	Journal of Emerging Technologies and Innovative Research	3107-6513	2026
5	Mr. P. S. Ladgaonkar	Automatic generation of product manufacturing information from 3d cad models using deep learning experimental validation and post result analysis	International Journal of Innovative Research in Technology	2349-6002	2026
6	Dr. Kalpesh S. Kamble	Deep learning - Driven retinal vessel analysis for cardiovascular risk and heart attack prediction	International Journal of Engineering Development and Research	2321-9939	2026



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7	Dr. Kalpesh S. Kamble	Integration of production management and supply chain management: A framework for enhanced operational efficiency	Recent trends in Production Engineering (HBRP Publication)	3049-2106	2025
8	Mr. Maheshkumar Arjun Sutar	A Review of Artificial Intelligence Applications in Manufacturing Operations	(ICIRSD -2025)	978-93-344-3977-9	2025
9	Mr. Maheshkumar Arjun Sutar	Review on Design of Industrial Gear Box	(ICIRSD -2025)	978-93-344-3977-9	2025
10	Mr. Maheshkumar Arjun Sutar	A Review On Vinyl Ester Composites	(ICIRSD -2025)	978-93-344-3977-9	2025
11	Mr. Maheshkumar Arjun Sutar	Analysis and Validation of Stress Concentration for Different Cutout Orientations in Plates	(ICIRSD -2025)	978-93-344-3977-9	2025
12	Mr. Sangram Sanjay Petkar	A Comprehensive Review of Post-Casting Cleaning Techniques for Tractor Oil Pans: From Conventional Methods to Advance	(ICIRSD -2025)	978-93-344-3977-9	2025
13	Mr. Sangram Sanjay Petkar	ENHANCING PRODUCTIVITY IN RETAIL PHARMACY THROUGH THE APPLICATION OF QUALITY TOOLS – A CASE STUDY	(ICIRSD -2025)	978-93-344-3977-9	2025



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16	Mr. Rahul Anil Pasale	Impact of 5S Implementation at Machine Shop: A Case Study	(ICIRSD -2025)	978-93-344-3977-9	2025
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30	Mr. Mahesh Sutar	Productivity enhancement of spur gear machining line through lean tools and bottleneck cycle time reduction	(ICIRSD -2025)	978-93-344-3977-9	2025
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