

Name of the Faculty : Sayan Paul

Designation : Assistant Professor

Department : Mechanical Engineering

No. of Publication : 47

Journal Publication :

Type of Journal	DOI No.	Name of the Article	Name of the Author	ISSN No.	Year
SCOPUS	https://doi.org/10.18311/jmmf/2023/36038	Comparative Study of Wear Behaviour of Heat Treated 304 Austenitic and 410 Martensitic Stainless Steel	Arijit Mukherjee, Santosh Kumar, Syan Paul, Soumak Bose, Suman Kumar Ghosh, Samrat Biswas	0022-2755	2023
SCOPUS	https://doi.org/10.1016/j.matpr.2023.03.194	Experimental investigation of cutting parameters during laser beam machining of aluminum alloy 7075	Joydip Naskar, Ranjan Kumar, Somnath Das, N. Roy, Sayan Paul	2214-7853	2023
SCOPUS	10.18311/jmmf/2023/43926	Damage Localization in a Beam by Lifting Wavelet Scheme and Photographic based Experimentation.	Ravi Nigam, Ramnivas Kumar, Nisit Kumar Parida, Ranjan Kumar, Soumya Ghosh, and Sayan Paul.	0022-2755	2024

Book Chapter Publication :

DOI No.	Name of the Article	Name of the Author	ISBN No.	Year
	Exploring the world of 3d printing technology	Sayan Paul	978-81-964878-1-2	2023

	Understanding wind turbines: harnessing the power Of the wind (part 2)	Sayan Paul	978-81-964878-0-5	2023
https://doi.org/10.62906/bs.book.209	Exploring Vibration Phenomena in Rotating Machinery: Causes, Detection and Control	Sayan Paul	978-93-6233-705-4	2023
https://doi.org/10.62906/bs.book.209	Study of Kerf Width in Wire EDM of EN36B Steel: Key Factors and Optimization Strategies	Sayan Paul	978-93-6233-705-4	2023
https://doi.org/10.62906/bs.book.209	Revolutionizing Mobility: Advanced Hydroelectric and Electric Vehicle Technologies for Sustainable Development	Sayan Paul	978-93-6233-705-4	2023
https://doi.org/10.62906/bs.book.209	Process Optimization and Material Characterization in WAAM	Sayan Paul	978-93-6233-705-4	2023
https://doi.org/10.62906/bs.book.209	Helical Flow Dynamics: Numerical Simulation and Analysis of Helicity Distribution in Cyclone Separators	Sayan Paul	978-93-6233-705-4	2023
https://doi.org/10.62906/bs.book.209	Advanced Modal Analysis of NACA 0012 Airfoil Wings: Unveiling Higher-Order Deformation Modes using ANSYS Workbench	Sayan Paul	978-93-6233-705-4	2023
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https://doi.org/10.62906/bs.book.209	Influence of Crack Location on the Natural Frequencies of Composite Beams	Sayan Paul	978-93-6233-705-4	2023

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https://doi.org/10.62906/bs.book.209	Advances and Applications of Wire Arc Additive Manufacturing (WAAM) & Process Optimization and Material Characterization in WAAM	Sayan Paul	978-93-6233-705-4	2024
https://doi.org/10.62906/bs.book.209	Modal Analysis and Directional Bending Moment of a Cantilever Beam using ANSYS	Sayan Paul	978-93-6233-705-4	2024
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https://doi.org/10.62906/bs.book.211	Influence of Fiber Orientation on the Vibration Characteristics of Composite Beams with Cracks	Sayan Paul	978-93-6233-761-0	2024

Other Publication Details (if any)

Patent

- i. “Solar Powered Automated Rooftop Shielding Mechanism”, Abhishek Dhar, Saikat Majumdar, Sayan Paul, Saurabh Adhikari, Soumya Ghosh, Titas Kumar Nag, Arijit Mukherjee, Sourav Saha, Rituparna Mitra, Avik Dhar, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent No. 431023, Date of Filing. 4/7/20225.
- ii. “HUMOBOT- Multiple robot assistant in Post Pandemic”, Abhishek Dhar, Soumya Ghosh, Saurabh Adhikari, Arijit Mukherjee, Sayan Paul, Titas Kumar Nag, Sourav Saha, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No. 202231038993A]
- iii. “Hydraulic Ram Pump System for Water Lifting in Hilly Region.”, Soumya Ghosh, Abhishek Dhar, Saurabh Adhikari, Sourav Saha, Sayan Paul, Arijit Mukherjee, Ranjan Kumar, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No. 202231035645A]
- iv. “Smart Solar Grass Cutter”, Sayan Paul, Soumya Ghosh, Saurabh Adhikari, Arijit Mukherjee, Ranjan Kumar, Sourav Saha, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No. 202231038992A]
- v. “Solar Powered Outdoor Stand Ceiling Fan” Sayan Paul, Samrat Biswas, Arijit Mukherjee, Suman Kumar Ghosh, Abhishek Dhar, Saurabh Adhikari, Subhranil Som, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202331054340A]
- vi. “Mini Conveyor: Enhancing Material Handling with Geneva Mechanism”, Soumya Ghosh, Arijit Mukherjee, Suman Kumar Ghosh, Sayan Paul, Abhishek Dhar, Saurabh Adhikari, Subhranil Som, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431059750 A]
- vii. “Portable Air Conditioning Innovation: Harnessing Thermal Peltier Technology”, Samrat Biswas, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Abhishek Dhar, Saurabh Adhikari, Subhranil Som, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060584A]
- viii. “Rainwater Detector System: Enhancing Water Management and Conservation”, Arijit Mukherjee, Sayan Paul, Soumya Ghosh, Samrat Biswas, Abhishek Dhar, Saurabh Adhikari, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060628A]
- ix. “River Cleaning Boat: Innovating Waterway Maintenance for Environmental Conservation”, Samrat Biswas, Sayan Paul, Suman Kumar Ghosh, Soumya Ghosh, Abhishek Dhar, Saurabh Adhikari, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks,

Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060629A]

x. “Mini Hydraulic Jack: Compact Solution for Lifting and Support”, Sayan Paul, Arijit Mukherjee, Soumya Ghosh, Suman Kumar Ghosh, Abhishek Dhar, Saurabh Adhikari, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431060077A]

xi. “Safe Guard: Gas Leakage Detection and Protection System for Home and Industries”, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Samrat Biswas Abhishek Dhar, Saurabh Adhikari, Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202431064477A]