

Shri Ramdeobaba College of Engineering and Management, Nagpur -440013
Department of Mechanical Engineering

Research and Development Activities
Publications in Refereed and Indexed (SCI/Web of Science/ Scopus) Journals

Session:2023-24

Sr.No.	Names of the Authors	Name of Co- Authors	Title of the Paper	Name of the Journal	Month & year of Publication	ISSN No. in case of journals and ISBN no. in case of books/DOI	Impact Factor	Indexed In SCI/Web of Science/ Scopus/ other	Unpaid/ Paid
1	Prof. R. R. Agrawal	Warish Patel, Y. Sangeetha, Deepa Rani Gopagoni, D. M. Arvind Mallik, Saket Mishra, M. P. Sunil & Raenu Kolandaisamy	An empirical intelligent water irrigation system using soft computing and IoT	International Journal of Information Technology (Singapore)	Jun-24	2511-2104	2.512	Scopus	Unpaid

2	Dr. Y.M. Sonkhaskar	P B Shiwalkar. Kshitij S. Thote Shraddha Bhakare	Execution of Maynard Operation Sequence Technique (MOST) for Bicycle Line Assembly to Enhance Takt Time Efficiency	International Journal of Emerging Technologies and Innovative Research	Apr-24	2349-5162	8.56	UGC approved	Unpaid
3	Dr. M. M. Gupta	Himanshu Mahesh Shukla	A comprehensive approach to enhance wood cutting productivity: Integration of spherical fuzzy DEMATEL and artificial neural networks	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	May-24	0954-4089	1.606	SCI	Unpaid
4	Dr. M.P. Joshi	-	Enhancing User Experience on Journal Websites: A Novel Entropy-based Weighing Method with MARCOS and COCOSO Ranking Approaches	Journal of Scientific & Industrial Research (JSIR)	Jun-24	0022-4456	0.7	SCIE	Unpaid

5	Ashwin S. Chtpalliwar	Trupti Yadav ,Piyush S. Patil ,Prashant Jadhav, Vivek Deshpande, Sandeep Shinde	Bio-Inspired Robotic Exoskeletons with Adaptive Electrical Control for Enhanced Upper Extremity Rehabilitation	Journal of Electrical Systems	July 2024	11125209	0.9	Scopus	Unpaid
6	Ashwin S. Chtpalliwar	Om Prakash Bohrey	Mitigation of Human Factors in Aviation	Theoretical Issues in Ergonomics Science, Taylor and Francis	February 2024	1464 536	1.6	Scopus	Unpaid
7	Ashwin S. Chtpalliwar	Om Prakash Bohrey	Application of Reliability Centred Maintenance in Improving Aircraft Availability with Preventive Maintenance Intervention	Journal of Advanced Research in Applied Sciences and Engineering Technology	January 2024	24621943		SCOPUS	Unpaid
8	Ashwin S. Chtpalliwar	Om Prakash Bohrey	Human Error Management in Aviation Maintenance Using Hybrid FMEA With a Novel Fuzzy Approach	Defence Science Journal	January 2024	0011748X		SCI	Unpaid

9	Mangesh Joshi	-	Motor Insurance Policy Selection: A Joint Spherical Fuzzy Analytic Hierarchy Process (SF-AHP) and Combined Compromise Solution (COCOSO) Approach	Journal of Scientific & Industrial Research	Feb 2024	0975-1084	0.6	SCIE	Unpaid
10	Mangesh Joshi	-	Prioritizing Agility Factors in IT-Enabled Healthcare Supply Chain under Uncertainty: A Joint ISM-MICMAC Approach	Journal of Scientific & Industrial Research	Jan 2024	0975-1084	0.6	SCIE	Unpaid
11	Dr. Sachin Pund		Novel resource allocation approach for fog computing-driven IoT systems	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)	March 2024	2147-6799	-	Scopus	Paid

12	Dr. Sachin Pund		Revolutionizing Image Encryption: Data Hiding Model Based on Optimized Neural Network	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)	March 2024	2147-6799	-	Scopus	Paid
13	Dr. Sachin Pund		Developing an Innovative Machine Learning Integrated Cloud Monitoring System for Cloud-Based Services	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)	March 2024	2147-6799	-	Scopus	Paid
14	Dr. Y. M. Sonkhaskar	G. S. Rao; K. V. Khade; R. L. Bhute; S. P. Mahant	Design and analysis of Continuously Automatic Variable Transmission (CAVT) system for bicycle	AIP Conf. Proc. 2974, 020023 (2024)	January 2024		-	Scopus	Unpaid
15	G.R. Nikhade	P. Khandelwal Pravinkumar Sonsare Kishore Yadlapati SSSR Sarathbabu Duvvuri	Crack-JPU – A crack segmentation method using atrous convolution	Measurement : Sensors	March 2024	2665-9174	3.1	Scopus	Unpaid

16	G.R. Nikhade, A. K. Jha Y M Sonkhaskar	S Admane, P Khandelwal	Design and Development of Cam-Operated in-Pipe Robot (CIPR)	Scientia Iranica	March 2024	2345-3605	1.4	Scopus	Unpaid
----	---	---------------------------	---	---------------------	---------------	-----------	-----	--------	--------

Programme: B.Tech			Session:2024-25			Date: 25/03/2025			
Sr.No.	Names of the Authors	Name of Co- Authors	Title of the Paper	Name of the Journal	Month & year of Publication	ISSN No. journals and ISBN books/DOI	Impact Factor	Indexed In SCI/Web of Science / Scopus / other	Unpaid/ Paid
1	Mangesh Joshi	Amit Adhaye	Ergonomic Risk Factor Priority Evaluation of Hand Fabric Painters based on Hybrid ISM– Spherical Fuzzy DEMATEL Approach	Journal of Scientific & Industrial Research (JSIR)	August 2024	0022-4456	0.7	SCIE	Unpaid

2	Sujit Patil	Sandeep Joshi	Performance investigation of concentrated solar thermal system	AIP conference Proceedings Volume 3139, Issue 1	August 2024	https://doi.org/10.1063/5.0224391	-	Scopus	Unpaid
3	A S Chatpalliwar	Om Bohrey	Modelling of Human Factors in Aviation Maintenance Using HFACS ME Human Factors Analysis and Classification System Maintenance Extension and Bayesian Network	Defence Science Journal	August 2024	0976-464X	0.9	SCIE	Unpaid
4	Rakshal agrawal	Ankita Harkare, humika neole, Richa Agrawal, Jagdish Kene, Madhumita Mohapatra	Enhanced Hydroponic Farming with Crop Suitability Prediction	Advances in Nonlinear Variational Inequalities	September 2024	1092910X	-	Scopus	paid

5	Dr. R. B. Shahu	-	An efficient healthcare analysis model for selecting optimum configurations of Pyrolytic Products using Deep Learning Model Analysis	Frontiers in Health Informatics	September 2024	https://doi.org/10.52783/fhi.vi.957	-	Scopus	-
6	Pranjali Deole	Priya Khandekar. Ruchir Pohekar	Effect of PCM Embedding on indoor Temperature Through Building wall	Springer conf. Advances in clean energy and sustainability Volume 2	September 2024	-	-	Scopus	Unpaid
7	Mangesh Joshi	Priya Khandekar	Selection of Health Insurance Policy: Using Analytic Hierarchy Process and Combined Compromised Solution Approach Under Spherical Fuzzy Environment	International Journal of Information Technology and Computer Science	October 2024	https://doi.org/10.5815/ijitcs.2024.05.05	0.716	SCOPUS	Unpaid

8	Mangesh Joshi	-	Primary School Selection in India: An Empirical Study using Spherical Fuzzy Analytic Hierarchy Process with MARCOS Method	Journal of Scientific & Industrial Research (JSIR)	October 2024	https://doi.org/10.56042/jsir.v83i10.5870	0.7	SCIE	Unpaid
9	Dr. G.R. Nikhade	-	Crack-JPU – A crack segmentation method using atrous convolution	Measurement: Sensors	01-04-2024 (indexed late)	https://doi.org/10.1016/j.measen.2024.101080	-	SCOPUS	Unpaid
10	Purushottam S. Barve(Research Scholar)	Dr. Y. V. Deshpande Dr. D. R. Zanwar Dr. S. S. Pund	Development of an Innovative Assembly Fixture for Machining Synchronization of Multi Fuse Parts on Vertical Machining Center and Productivity Enhancement	Journal of Scientific and Industrial Research	November 2024	https://doi.org/10.56042/jsir.v83i11.7562	0.7	SCIE	Unpaid

11	Parthib Majumdar (Student, Mechanical)	Sachin. S. Deshmukh Manav Pande, Amir Hussain	Generation of Brown Gas as an Alternative Fuel for Combustion Engines	International Journal of Innovative Research in Technology	November 2024	https://ijirt.org/Article?manuscript=169118	-	UGC CARE - I	Unpaid
12	Mangesh Joshi	Sanjay Nikhade	Developing Sustainable Consumer Practices: A Framework for Managing Refurbished Electronic Goods in India	Journal of Scientific & Industrial Research (JSIR)	December 2024	https://doi.org/10.56042/jsir.v83i12.9021	0.7	SCIE	Unpaid
13	Vedant Pachpohar (Student)	Mangesh Joshi Sachin Upadhye	MCDM Framework for Ranking Barriers to Green Roof Implementation in India	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy,	December 2024	https://catalog.lib.kyushu-u.ac.jp/opac_download_md/7326935/p2939-2948.pdf		SCOPUS	Unpaid
14	Om Prakash Bohrey	Dr. A S Chatpalliwar	Application of Reliability Centred Maintenance in Improving Aircraft Availability with Preventive	Journal of Advanced Research in Applied Sciences and Engineering Technology	December 2024	https://doi.org/10.37934/araset.42.1.115129	1.71	SCIE	Unpaid

			Maintenance Intervention						
15	Dr. Vishal Shukla	T.Anu, U. Gobikrishnan,, S. Karthikeyan, S. Chirag	Enhancing power conversion efficiency of polycrystalline silicon solar cells through ZnO/SiO ₂ /Al ₂ O ₃ anti-reflective coatings via spin coating	Journal of Ovonic Research	January 2025	Vol. 21 No. 1 https://doi.org/10.15251/JOR.2025.211.75	0.9	SCIE	Paid
16	Mangesh Joshi	Pranjali Deole	Enhancing UI/UX Design for Children's Educational Gaming Platforms: An Integrated Multicriteria Decision Making Framework	Journal of Scientific & Industrial Research (JSIR)	February 2025	https://doi.org/10.56042/jsir.v84i02.9675	0.7	SCIE	Unpaid
17	Mangesh Joshi	Priya Khandekar	Prioritizing Barriers to Circular Economy Implementation in Toy Industry using Analytical Hierarchy Process	Journal of Scientific & Industrial Research (JSIR)	March 2025	https://doi.org/10.56042/jsir.v84i03.9847	0.7	SCIE	Unpaid

18	Mangesh Joshi	-	Assessing Cost-Effective Materials for Multi-Functional Crutches: an Integrated MCDM Framework	Archives of Metallurgy and Materials	March 2025	https://doi.org/10.24425/amm.2025.152537	0.189	SCIE	Unpaid
----	---------------	---	--	--------------------------------------	------------	---	-------	------	--------