




Faculty Profile on University Website

www.mjpru.ac.in

Title	Prof./Dr./Mr./Ms.	First Name	Manoj Kumar	Last Name	Singh	
Designation		Associate Professor				
Department		Mechanical Engineering				
Address	Campus					
	Residence	39, Phase-3, Ashish Royal Park, Bareilly, U.P. Pin-243006				
Mobile No.		9457113429				
Email ID		Personal	manojksiet@gmail.com			
		University Domain	manojksiet@mjpru.ac.in			
Professional Networking ID, i.e. LinkedIn, Twitter etc.						
Educational Qualification (Graduation Onwards)						
Course/Degree		Institution	Year	Details/Thesis Topic/Subjects		
B. Tech.		MJPRU	2000	B. Tech in Mechanical Engineering		
M. Tech.		IIT Delhi	2009	M. Tech in Industrial Engineering		
Ph.D		IIT Delhi	2018	Competitiveness of The Electronics Manufacturing Industry In India: A Study of Select Issues		
Career Profile						
Organization/ Institution		Designation	Duration	Name of Duties		
MJPRU		Assistant Professor	2002-2018	Teaching		
MJPRU		Associate Professor	2018 onwards Continue	Teaching		
Research Interests/Specialization						
Strategy, Industrial Policies, Manufacturing						
Research Experience in Years: 03 Years during Ph.D work						
No. of Research Scholars Successfully Guided						

Name of Programme		Awarded		Under Supervision	
Ph.D.		01		01	
Researcher/	Scopus	Orchid	Publons	Vidwan	Google Scholar
Expert ID	57214312794	0000-0001-8535-1886	S-8650-2016	154249	DBN-2DIAAAAJ
Teaching Experience (Subjects/Courses Taught)					
18 Years					
Courses Taught					
<ol style="list-style-type: none"> 1. Manufacturing Technology 2. Production Process-I 3. Production Process-II 4. Automatic Mechanics 5. Statistical Quality Control 6. Production Planning and Control 7. Operation Management 8. Industrial Management 9. Value Engineering 					
Honours/Awards & Fellowship FOR OUTSTANDING WORK					
Name of Award/ Fellowship	Awarded By				
	Name of Governmental Agency	Name of Government Supported Organization Department			
National Overseas Scholarship 2007	Ministry of Social Justice and Empowerment, GoI	Ministry of Social Justice and Empowerment, GoI			
National Overseas Scholarship 2011	Ministry of Social Justice and Empowerment, GoI	Ministry of Social Justice and Empowerment, GoI			
2014 AGBA Scholar	Academy for Global Business Advancement (AGBA) 11 th Annual World Congress- Business and	Academy for Global Business Advancement (AGBA) 11 th Annual World Congress- Entrepreneurship development in globalised Era and Rise of India under new leadership, IIT Delhi			

	Entrepreneurship development in globalised Era and Rise of India under new leadership, IIT Delhi	
Best Paper Award Certificate 2019	Academy for Global Business Advancement (AGBA) 16 th Annual World Congress, IIT Delhi	Academy for Global Business Advancement (AGBA) 16 th Annual World Congress, IIT Delhi
Best Teacher Award-2021	Dr. Sarvepalli Radhakrishnan Best Teacher Award-2021 in Industrial Engineering, Center for Professional Advancement Continuous Education (CPACE)	Dr. Sarvepalli Radhakrishnan Best Teacher Award-2021 in Industrial Engineering, Center for Professional Advancement Continuous Education (CPACE)
Out Standing Scientist Award 2021	Out Standing Scientist Award, International Conference for award winners on Engineering, Science and Medicine, Chennai, India, organized by VDGOOD Professional Association.	Out Standing Scientist Award, International Conference for award winners on Engineering, Science and Medicine, Chennai, India, organized by VDGOOD Professional Association.

Publication/Academic Activities (Numbers Only)

Books & Monographs (Single Author)	Research Papers Published in International Journals	2	5	Papers Presented in Seminar/ Conferences	2	8	Seminar/ Conferences Organized	0	5	Research Project (Completed)	02
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Books (Co-authored)	05	Research Papers Published in Other Journals		Seminar/ Conferences Attended	25	Workshops Organized		Research Project (Ongoing)	
Books (Edited)	01	Articles Published in Popular For a, e.g., Websites,		Sessions Chaired in Seminars/ Conferences		Membership of Academic/ Professional Bodies	02	Foreign Countries Visited for Academic Assignments	
Chapters in Edited Books	05	Blogs Newspapers, Magazines etc		Resource Lectures Delivered	03				

Details of Publication / Academic Activities (2010 Onwards)

(a) Authorised Books/ Monographs

Name of Book	Year of Publication	Publisher	ISBN No.
Sustainable Smart Industry 4.0 Future Assessment	2021	IIP InSc International Publishers	978-1-956102-54-3
Technological advances and applications in Additive Manufacturing	2021	IIP InSc International Publishers	978-1-956102-77-2
Reforms and Disinvestment of Public Enterprises	2019	Lulu Publication, USA	978-1-387-53967-3
Operations Management	2019	Kindle direct publishing	978-981-16-5281-3
Environmental Management	2019	Kindle direct publishing	979-8-493-03684-2

(b) Edited Books

Year of Publication	Title	Publisher	ISBN No.	DOI No.	Citations

(c) Papers Published in UGC Care Listed/Indexd/Peer Reviewed Journals

Year of Publication	Title	Name of Journals	ISBN No.
2013	Hollistic View of BPR for E-District Services	International Journal of	2319-8354 (E)

		Advance Research in Science and Engineering	
2017	Evaluating the competitiveness of Indian metro cities: in smart city context	International Journals Information Technology and Management	1461-4111
2018	Analyzing the Determinants Affecting the Industrial Competitiveness of Electronics Manufacturing in India by Using TISM and AHP.	Global Journal of Flexible Systems Management	0972-2696
2018	Socio-influences of users' generated content in emerging markets	Marketing Intelligence and Planning	0263-4503
2018	Smart neighborhood: A TISM approach to reduce urban polarization for the sustainable development of smart cities	Journal of Science and Technology Policy Management (2018)	2053-4620
2018	Competitiveness of the Indian electronics manufacturing industry: an ISM-Fuzzy MICMAC and AHP Approach	Measuring Business Excellence	1368-3047
2019	A policy framework for city eligibility analysis: A TISM and fuzzy-MICMAC weighted approach to select a city for smart city transformation in India	Land Use Policy. Elsevier (2019)	0264-8377

2020	Moving towards smart cities: Solutions that lead to the Smart City Transformation Framework	Journal of Technological Forecasting and Social Change	0040-1625
2021	A State of Art Review On Behavioral study of Work Roll made by AISI D2 HCHCr Tool Steel."	Design Engineering (2021): 13616-13627.	0011-9342
2021	"Identification and Prioritization of Properties for Composite Materials Usage in Automobiles: An Analytical Hierarchical Process (AHP) Approach."	Design Engineering (2021): 12751-12764.	0011-9342
2021	"Seasonal Variations of Lead Accumulation in the Spinacea Oleracea Linn. During 2014-2017."	Design Engineering (2021): 15655-15666.	0011-9342
2021	Power quality issues in Autonomous Solar photovoltaic utility microgrid employing a STATCOM Based Intelligent Controller,	Journal of nuclear energy science and power generation technology 10:10 (2021)	2325-9809
2021	Artificial Neural Network based Advanced Algorithm for New Generation Solar PV Systems	Journal of nuclear energy science and power generation technology 10:10 (2021)	2325-9809
2021	A Smart Grid Energy Management Optimization Technique	Journal of nuclear energy science and power generation technology 10:10 (2021)	2325-9809

2021	A Compressive Review on Solar Air Heater Heat Transfer and Friction Characteristic	Journal of Nuclear Energy Science & Power Generation Technology 10:11 (2021)	2325-9809
2021	"Smart Farming Technologies in Agriculture in India."	International Journal of Modern Agriculture 10, no. 2 (2021)	2365-7246
2021	An experimental and computational investigation of the flow fields using Accelerated Erosion Test Ring (AETR)	Journal of Engineering Research, ICCEMME Special Issue (2021)	2021
2021	Field localization and density cavitation in low beta plasma, Laser and Particle Beams	Laser and particle beams Journal Cambridge University Press (2021)	0263-0346
2021	Analyzing an Evacuated Tube Solar Water Heating System using Twin-Nano/Paraffin as Phase Change Material	Materials Today: Proceedings. 2021	2214-7853
2021	Experimental analysis of the metal roofed industrial building using Nano-Silica disbanded crude wax (NDCW)	Materials Today: Proceedings. 2021	2214-7853

2021	Experimental investigation of desiccant dehumidification Based Thermoelectric Air-Conditioning System	Journal of Engineering Research (JER)	2307-1885
2022	Experimental investigations on the Wear Behaviour of Eutectic Al 7075/CNT/Graphite Composites Manufactured by a Combination of Two Stage Stir and Squeeze Casting Techniques.	Hindawi Journal of Nanomaterials	1687-4129
2022	Optimization and wear properties for the composites of metal matrix AA8011/Boron Nitride using Taguchi method	Hindawi Journal of Nanomaterials	1687-4129
2022	Study on the impact of Nano-reinforcements on the fatigue strength of adhesive joints	Materials Today: Proceedings. 2022	2214-7853
2022	Wireless Sensor Networks: Issues, Algorithms and Applications	Design Engineering	0011-9342

Year	Chapter in Edited Books	Publisher's Details	Level	ISSN/ISBN No
2018	A Glimpse of Sustainable Electronics Manufacturing for India: A Study Using PEST-SWOT Analysis	Global Value Chains, Flexibility and Sustainability Springer	International	978-981-10-8929-9
2019	Numerical simulation of flow past a flat plate with anti-singing trailing edge	IOP conference series: material	International	691 (2019)012021

		science and engineering		
2020	Experimental investigation on the performance of nanoboric acid suspensions in coconut oil during milling operation on AI 6061-T6 alloy	IOP conference series: material science and engineering	International	988 (2020) 011001
2021	Experimental analysis of a thermoelectric air-conditioning system with desiccant dehumidification	Recent advances in industrial production Springer	International	978-981-16-5281-3
2021	An experimental investigation of ribbed solar air heater-free convection	Recent advances in industrial production Springer	International	978-981-16-5281-3

Year	Title of Patents	Funding Agency	Level	Application No.
2018	Stone Crushing Machine	NPIU/MHRD/GoI (TEQIP-III)	National	201811035040
2019	A Solar Heating Apparatus	NPIU/MHRD/GoI (TEQIP-III)	National	201911037065
2019	Pneumatic Chips Collecting Apparatus	NPIU/MHRD/GoI (TEQIP-III)	National	201911012059
2020	Buvt -face recognition bot: face recognition bot their unique voice using IoT-based technology	NPIU/MHRD/GoI (TEQIP-III)	National	202011041947
2021	A machine learning and IOT based system for incorrect posture detection	NPIU/MHRD/GoI (TEQIP-III)	National	202121037944
2021	An Experimental Study carried out in orthogonal section on the titanium alloy	NPIU/MHRD/GoI (TEQIP-III)	National	202141041759

	TI-6AL-4V Using the Kinemati			
2021	Experimental Investigation of Hybrid gas turbine and Hybrid steam Turbine to investigate the possibility of utilizing solar energy in a combined cycle	NPIU/MHRD/GoI (TEQIP-III)	National	202141049062

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till
2019	Development of solar power thermo electric cooler using desiccant dehumidification	NPIU/MHRD/GoI	Rs. 1021000.00	2019	2021
2019	Hybrid solar air heater for space heating and crop drying	NPIU/MHRD/GoI	Rs. 1261000.00	2019	2021

(h) Administrative Positions/Assignments Held

Post	Organization	Duration	
		From	Till
In-Charge, Mech. Engg.	ME, MJPRU	2009	2012
TEQIP-II Coordinator	FET, MJPRU	2010	2012
TEQIP-III Coordinator	FET, MJPRU	2017	Continues
Proctor, Mech. Engg.	ME, MJPRU	2021	Continues

(i) Seminar/Conference Presentations

Title of paper presented	Conferences / Seminars / Workshops attended	International/ National
The social media cone: Towards achieving the manufacturing competitiveness goals	15 th IFIP I3E Conference on e-Business, e-Service and e-Society ‘ Social media: the good the bad and the Ugly 13-15 September, 2016, School	International (Abroad)

	of Management, Swansea university, UK	
Digitized residential address system: A necessity towards the faster service delivery and smart cities development in India	16 th Global Conference on flexible systems Management-GLOGIFT-16 4-6 December, 2016, UTS Business School, University of Technology Sydney and Global Institute of Flexible Systems Management	International (Abroad)
Role of manufacturing sector to develop smart economy: A competitiveness study between India and China	International Conference on Smart Cities, ICEG. CRC Press, Taylor & Francis, UK	International (within Country)
Competitive Measurement of the Indian Electronics Manufacturing Industries: Using the Analytical Hierarchy Process	Proceedings of GLOGIFT 16, December 4-6, 2016, University of Technology, Sydney, Global Institute of Flexible Systems Management	International (Abroad)
Smart Governance for Smart Cities: A conceptual Framework from Social Media Practices (2016)	IFIP International Federation for Information Processing 2016 springer International Publishing Online	International (within Country)
Education in Emergencies: Smart learning solutions and role of governance to mitigate the challenges	3rd IEEE International Conference on Advances in Computing, Communication and Automation (ICACCA-2017), IEEE proceedings, Sept, 14-16, 2017, Dehradun, India. IEEE	International (within Country)
Smart mobility: Crowdsourcing solutions for smart transport system in smart cities context.	ACM Press, ICEGOV 2018. Ireland, UK ICEGOV 2018	International (Abroad)
Driving competitive advantage for high technology manufacturing: A social media perspective	AGBA's 16 th World Congress, 2-4 July, 2019, IIT Delhi	International (within Country)
Investigation of flow field in accelerated erosion test rings	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India	International (within Country)

Development of textured tool for process improvements in dry machining	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India	International (within Country)
A review of hybrid solar air heater	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India	International (within Country)
Conversion of waste heat to electricity using thermoelectric generator: A review	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India	International (within Country)
Fabrication of hybrid braking system	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India	International (within Country)
Design and construction of an ornithopter	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India	International (within Country)
Comparative investigation on depth of cut in CO2 laser beam machining of MDF and acrylic	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India	International (within Country)
Products and Services in Industries	Department of Mechanical Engineering, Government Engineering College Jhalawar	National
Inventory Management	Department of Mechanical Engineering, Government Engineering College Jhalawar	National
Forecasting methods in Industries	Department of Mechanical Engineering, Government Engineering College Jhalawar	National
Experimental and Computation Analysis of Micro-Electric Discharge Machining	National Seminar on Software applications in Engineering and Technology, Department of Mechanical Engineering, Sant Longowal Institute of Engineering and	National

	Technology, Longowal, Sangrur, Punjab, India	
Investigation of Vertical Dynamics of a passenger car through bond graph formulation	National Seminar on Software applications in Engineering and Technology, Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab, India	National
Adopting Sustainable Manufacturing: The case of Indian electronics manufacturing industries	Global Institute of Flexible Systems Management, International Conference and Proceedings of GLOGIFT 16, University of Technology, Sydney	International (Abroad)
Academic Globalization: A need for competitiveness of academic institutions	International Institute of Informatics and Systemic, 19 th World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI-2015), Orlando, Florida, USA	International (Abroad)
Impact of Government Policies on Manufacturing Sector: A proposed framework for policy impact analysis	Proceedings XI Annual World Congress, titled “Business and Entrepreneurship Development in a Globalised Era and Rise of India under new leadership” IIT Delhi	International (within Country)
Investigating the Indian Electronics Manufacturing Sector using PEST-SWOT analysis tools	Proceedings XI Annual World Congress, titled “Business and Entrepreneurship Development in a Globalised Era and Rise of India under new leadership” IIT Delhi	International (within Country)
The Future of manufacturing: Global Value chains, smart specialization and flexibility	Global Institute of Flexible Systems Management, International Conference and Proceedings of	International (Aboard)

	GLOGIFT 16, University of Technology, Sydney	
Improving Competitiveness of Indian Electronics Manufacturing Industries: A need for FDI policy liberalization	International Institute of Informatics and Systemic, 19 th World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI-2015), Orlando, Florida, USA	International (Abroad)
Sap-Lap inquiry Model for Technology commercialization: A case of automobiles product	XVI Annual International Conference of Society of Operations Management at IIT Delhi jointly organized by IIT Delhi, IIM Lucknow and GVSU, USA	International (within Country)
Decision support systems for Ghaziabad E-District: A case of routing for stakeholder	XVI Annual International Conference of Society of Operations Management at IIT Delhi jointly organized by IIT Delhi, IIM Lucknow and GVSU, USA	International (within Country)

(j) Membership of Academic/Professional Bodies

Life member Indian Society for Technical Education (LM130017)

Life Member, The Institutions of Engineers (INDIA) (M-1737206)

(k) Participation in Community Service/ Exchange Programme / Consulting Activity

Dr. Singh is a prominent academician in the country. He is at presently working as an Associate Professor in department of Mechanical Engineering, Faculty of Engineering & Technology, M.J.P. Rohilkhand University, Bareilly. His area of interest are in Strategy, Competitiveness, Smart Cities, Manufacturing Industries and Government Policies, Operation Management, Industrial Management, Value Engineering, and Production Planning & Control. He has authored more than 40 technical papers in various reputed national as well as international journals and conferences. Dr. Singh have filed 11 national and international patents. He has been associated in major academic research project awarded by AICTE in the field of Solar Energy. Dr Singh have also authored two books titled Sustainable Smart Industry 4.0: Future Assessment and Technological Advances and Applications in Additive Manufacturing. He is life time member of Indian Society for Technical Education and The Institution of Engineers. Apart from this Dr. Singh is Chairman trustee of Mangalam Charitable Trust which carries out social work in the country. On the administrative front, he has been the Head of the department, Mechanical Engineering department twice from (2009-2012) and (2019-2020) apart from this he has coordinated TEQIP-II (2010-2012) and TEQIP-III (2017 to present date) World Bank sponsored institutional project of run by NPIU, MHRD, Govt. of India, at Faculty of Engineering and Technology, M. J. P. Rohilkhand University, Bareilly, Bareilly. He has accomplished his Ph.D. (2018) and Masters (2009) from Indian Institute of Technology, Delhi and Graduated in Engineering (2000) from M. J. P. Rohilkhand University, Bareilly.

(I) International Academic Exposure			
International Institute of Informatics and Systemic, 19 th World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI-2015), Orlando, Florida, USA			
International Institute of Informatics and Systemic, 19 th World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI-2015), Orlando, Florida, USA			



Signature of Faculty Member