




# Faculty Profile on University Website

[www.mjpru.ac.in](http://www.mjpru.ac.in) (NAAC A++ University)

<b>Title</b>	<b>Dr.</b>	<b>First Name</b>	<b>Manoj Kumar</b>	<b>Last Name</b>	<b>Singh</b>	<b>Photograph</b>
<b>Designation</b>		Associate Professor				
<b>Department</b>		Department of Mechanical Engineering				
<b>Address</b>	<b>Campus</b>					
	<b>Residence</b>	39, Phase-3, Ashish Royal Park, Bareilly, U.P. Pin-243006				
<b>Mobile No.</b>		9457113429				
<b>Email ID</b>		<b>Personal</b>	<a href="mailto:manojksiet@gmail.com">manojksiet@gmail.com</a>			
		<b>University Domain</b>	<a href="mailto:manojksiet@mjpru.ac.in">manojksiet@mjpru.ac.in</a>			
<b>Professional Networking ID, i.e. LinkedIn, Twitter etc.</b>						
<b>Educational Qualification (Graduation Onwards)</b>						
<b>Course/Degree</b>	<b>Institution</b>	<b>Year</b>	<b>Details/Thesis Topic/Subjects</b>			
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			
<b>Career Profile</b>						
<b>Organization/ Institution</b>	<b>Designation</b>	<b>Duration</b>	<b>Name of Duties</b>			
MJPRU	Assistant Professor	2002-2018	Teaching			
MJPRU	Associate Professor	2018 onwards Continue	Teaching			
<b>Research Interests/Specialization</b>						
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		02	
Researcher/ Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar
	57214312794	0000-0001-8535-1886	S-8650-2016	154249	DBN-2DIAAAAJ
	H-Index	I 10-Index	Citations		
	14 as on 16.09.2025	15 as on 16.09.2025	1145 as on 16.09.2025		
Teaching Experience (Subjects/Courses Taught)					
22 Years					
<b>Courses Taught</b> <ol style="list-style-type: none"> <li>1. Manufacturing Technology</li> <li>2. Production Process-I</li> <li>3. Production Process-II</li> <li>4. Automatic Mechanics</li> <li>5. Statistical Quality Control</li> <li>6. Production Planning and Control</li> <li>7. Operation Management</li> <li>8. Industrial Management</li> <li>9. Value Engineering</li> </ol>					
Honours/Awards & Fellowship FOR OUTSTANDING WORK					
S.No	Name of Award/ Fellowship	Awarded By			
		Name of Governmental Agency	Name of Government Supported Organization Department	Name of International Recognized Body	
1	National Overseas Scholarship 2007	Ministry of Social Justice and Empowerment, GoI	Ministry of Social Justice and Empowerment, GoI	Ministry of Social Justice and Empowerment, GoI	
2	National Overseas Scholarship 2011	Ministry of Social Justice and Empowerment, GoI	Ministry of Social Justice and Empowerment, GoI	Ministry of Social Justice and Empowerment, GoI	
3	2014 AGBA	Academy for Global	Academy for Global	Academy for Global	

	Scholar	Business Advancement (AGBA) 11 <sup>th</sup> Annual World Congress- Business and Entrepreneurship development in globalised Era and Rise of India under new leadership, IIT Delhi	Business Advancement (AGBA) 11 <sup>th</sup> Annual World Congress- Business and Entrepreneurship development in globalised Era and Rise of India under new leadership, IIT Delhi	Business Advancement
4	Best Paper Award Certificate 2019	Academy for Global Business Advancement (AGBA) 16 <sup>th</sup> Annual World Congress, IIT Delhi	Academy for Global Business Advancement (AGBA) 16 <sup>th</sup> Annual World Congress, IIT Delhi	Academy for Global Business Advancement
5	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)	Dr. Sarvepalli Radhakrishnan Best Teacher Award-2021 in Industrial Engineering, Center for Professional Advancement Continuous Education (CPACE)
6	Out Standing Scientist Award 2021	Out Standing Scientist Award, International Conference for award winners on Engineering, Science and Medicine, Chennai, India,	Out Standing Scientist Award, International Conference for award winners on Engineering, Science and Medicine, Chennai, India, organized by VDGGOOD Professional Association.	Out Standing Scientist Award, International Conference for award winners on Engineering, Science and Medicine, Chennai, India, organized by VDGGOOD Professional Association.

		organized by VDGOOD Professional Association.		
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**Publication/Academic Activities (Numbers Only)**

Books & Monographs (Single Author)		Research Papers Published in International Journals	29	Papers Presented in Seminar/ Conferences	29	Seminar/ Conferences Organized	06	Research Project (Completed)	05
Books (Co-authored)	05	Research Papers Published in Other Journals		Seminar/ Conferences Attended	25	Workshops Organized	17	Research Project (Ongoing)	02
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	02
Chapters in Edited Books	06	Blogs Newspapers, Magazines etc		Resource Lectures Delivered	03				

**Details of Publication / Academic Activities (2010 Onwards)**

**(a) Authorised Books/ Monographs**

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

<b>(b) Edited Books</b>						
<b>Year of Publication</b>	<b>Title</b>	<b>Publisher</b>	<b>ISBN No.</b>	<b>DOI No.</b>	<b>Citations</b>	
<b>(c) Papers Published in UGC Care Listed/Indexed/Peer Reviewed Journals</b>						
<b>S.No</b>	<b>Year of Publication</b>	<b>Title</b>	<b>Name of Journals</b>	<b>ISBN No.</b>	<b>Citations</b>	<b>Impact Factor</b>
1	2013	Hollistic View of BPR for E-District Services	International Journal of Advance Research in Science and Engineering	2319-8354 (E)		1.11 (2020-2021)
2	2017	Evaluating the competitiveness of Indian metro cities: in smart city context	International Journals Information Technology and Management	1461-4111	16	0.62 (Scopus)
3	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	40	7.018 (Scopus)
4	2018	Socio-influences of users' generated content in emerging markets	Marketing Intelligence and Planning	0263-4503	22	4.443 (SCI)
5	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	27	3.268 (SCI)
6	2018	Competitiveness of the	Measuring Business	1368-3047	24	2.69

		Indian electronics manufacturing industry: an ISM-Fuzzy MICMAC and AHP Approach	Excellence			(SCI)
7	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	60	6.403 (SCI)
8	2020	Moving towards smart cities: Solutions that lead to the Smart City Transformation Framework	Journal of Technological Forecasting and Social Change	0040-1625		11.146 (SCI)
9	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		
10	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		
11	2021	"Seasonal Variations of Lead Accumulation in the Spinacea Oleracea Linn. During 2014-2017."	Design Engineering (2021): 15655-15666.	0011-9342		
12	2021	Power quality issues in Autonomous Solar	Journal of nuclear energy science and	2325-9809	3	0.167 (Scopus)

		photovoltaic utility microgrid employing a STATCOM Based Intelligent Controller,	power generation technology 10:10 (2021)			
13	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		0.167 (Scopus)
14	2021	A Smart Grid Energy Management Optimization Technique	Journal of nuclear energy science and power generation technology 10:10 (2021)	2325-9809		0.167 (Scopus)
15	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		0.167 (Scopus)
16	2021	"Smart Farming Technologies in Agriculture in India."	International Journal of Modern Agriculture 10, no. 2 (2021)	2365-7246		
17	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		(SCI)
18	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		0.884 (Scopus)
19	2021	Experimental	Journal of Engineering	2307-1885		0.193

		investigation of desiccant dehumidification Based Thermoelectric Air-Conditioning System	Research (JER)			(SCI)
20	2022	Analyzing an Evacuated Tube Solar Water Heating System using Twin-Nano/Paraffin as Phase Change Material	Materials Today: Proceedings. 2022	2214-7853	40	25286 (Scopus)
21	2022	Experimental analysis of the metal roofed industrial building using Nano-Silica disbanded crude wax (NDCW)	Materials Today: Proceedings. 2022	2214-7853	39	25286 (Scopus)
22	2022	Experimental investigations on the Wear Behaviour of Eutectic A1 7075/CNT/Graphite Composites Manufactured by a Combination of Two Stage Stir and Squeeze Casting Techniques.	Hindawi Journal of Nanomaterials	1687-4129	3	3.371 (Scopus)
23	2022	Optimization and wear properties for the composites of metal matrix AA8011/Boron Nitride using Taguchi method	Hindawi Journal of Nanomaterials	1687-4129	5	3.371 (Scopus)
24	2022	Study on the impact of Nano-reinforcements on the fatigue strength of adhesive joints	Materials Today: Proceedings. 2022	2214-7853	2	25286 (Scopus)



25	2022	Wireless Sensor Networks: Issues, Algorithms and Applications	Design Engineering	0011-9342		
26	2023	A Comparative Analysis of Ribs and Cans Type Solar Air Heater	Evergreen Joint Journal of Novel Carbon Resource Sciences& Green Asia Strategy	2189-0420 (Print) 2432-5953 (Online)		0.744 (Scopus)
27	2023	Optimum design and analysis of solar pump with the help of genetic algorithm, a MATLAB toll and RSM toll at minimum cost	Environmental Progress & Sustainable Energy	1944-7442 (Print) 1944-7450 (Online))		2.8 (Scopus)
28	2023	Performance optimization of solar operating by PV module	Environmental Progress & Sustainable Energy	1944-7442 (Print) 1944-7450 (Online)		2.8 (Scopus)
29	2025	Machine Learning Based Parametric Optimization and Porosity Mapping in Selective Laser Melting of SS316L Alloy	Journal of Materials Engineering and Performance	<a href="https://doi.org/10.1007/s11665-025-11726-0">https://doi.org/10.1007/s11665-025-11726-0</a>	4.4	2.3 (Scopus)

**(d) Chapter/Paper Published in Edited Books**

S.No	Year	Chapter in Edited Books	Publisher's Details	Level	ISSN/ISBN No
1	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
2	2019	Numerical simulation of flow past a flat plate with anti-	IOP conference series: material	International	691 (2019)012021

		singing trailing edge	science and engineering		
3	2020	Experimental investigation on the performance of nano boric acid suspensions in coconut oil during milling operation on AI 6061-T6 alloy	IOP conference series: material science and engineering	International	988 (2020) 011001
4	2021	Experimental analysis of a thermoelectric air-conditioning system with desiccant dehumidification	Recent advances in industrial production Springer Singapore	International	978-981-16-5281-3
5	2021	An experimental investigation of ribbed solar air heater-free convection	Recent advances in industrial production Springer Singapore	International	978-981-16-5281-3
6	2024	Additive Manufacturing and Its Industrial Applications, Volume-2	Advances in Material Technology	National	978-81-968820-3-7

**(e) Patents (PUBLISHED/GRANTED)**

S. No.	Year	Title of Patents	Funding Agency	Level	Application No.
1	2018	Stone Crushing Machine (PUBLISHED)	NPIU/MHRD/GoI (TEQIP-III)	National	201811035040
2	2019	A Solar Heating Apparatus (PUBLISHED)	NPIU/MHRD/GoI (TEQIP-III)	National	201911037065
3	2019	Pneumatic Chips Collecting Apparatus (PUBLISHED)	NPIU/MHRD/GoI (TEQIP-III)	National	201911012059
4	2020	Buvt -face recognition bot: face recognition bot their unique voice using IoT-based technology (Granted)	NPIU/MHRD/GoI (TEQIP-III)	National	Application No. 202011041947 Patent Granted No. 538610

5	2020	AMTH- Biomedical Waste Management: An IOT- Based System for Biomedical Waste Management Including Ayurveda Hospitals <b>(GRANTED)</b>	NPIU/MHRD/GoI (TEQIP-III)	International	2020103095
6	2021	Solar Tracking System <b>(PUBLISHED)</b>	NPIU/MHRD/GoI (TEQIP-III)	National	202111013372
7	2021	A machine learning and IOT based system for incorrect posture detection <b>(PUBLISHED)</b>	NPIU/MHRD/GoI (TEQIP-III)	National	202121037944
8	2021	An Experimental Study carried out in orthogonal section on the titanium alloy TI-6AL-4V Using the Kinematic <b>(PUBLISHED)</b>	NPIU/MHRD/GoI (TEQIP-III)	National	202141041759
9	2021	Experimental Investigation of Hybrid gas turbine and Hybrid steam Turbine to investigate the possibility of utilizing solar energy in a combined cycle <b>(PUBLISHED)</b>	NPIU/MHRD/GoI (TEQIP-III)	National	202141049062
10	2022	A Metal Detector Robotic Device <b>(GRANTED)</b>	Government of India (GoI)	National	Patent Granted No. 356017-001
11	2024	Analysis of dead tissues in medical images using edge detection techniques <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411035979
12	2024	An approach towards skin-based signal transmission Technology <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411055484
13	2024	Agriculture land estimation from satellite images using hybrid intelligence <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411055488

14	2024	Design and analysis of collaborative robots (Cobots) to investigate their role in industrial applications and safety <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411034960
15	2024	Role of machine learning and artificial intelligence techniques to enable robots to learn and adapt to dynamic environments <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411034972
16	2024	Integrating renewable energy sources into mechanical systems and focusing on efficiency and reliability in renewable energy environments <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411034975
17	2024	Analysis of research algorithms and systems for autonomous navigation and decision-making in robotic applications for the medical industry <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411034970
18	2024	Analysis of waste heat recovery efficiently capture and utilize waste heat from industrial processes for energy generation <b>(PUBLISHED)</b>	M.J.P. Rohilkhand University, Bareilly	National	202411035552
19	2024	IOT based remote patient monitoring system <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	442781-001 Design Patent
20	2024	AI based soil moisture level indicator <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	442779-001 Design Patent
21	2024	Voice assisted learning device for visually impaired students <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	442861-001 Design Patent

22	2024	Smart wearable mental health diagnostic device	M.J.P. Rohilkhand University, Bareilly	National	Under Process
23	2024	AI based network intrusion detection device	M.J.P. Rohilkhand University, Bareilly	National	Under Process
24	2024	Artificial intelligence-based device for early detection of cardiovascular diseases <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	443152-001 Design Patent
25	2024	AI based skin cancer detection device <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	442871-001 Design Patent
26	2024	IOT based indoor air purification device <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	443257-001 Design Patent
27	2024	AI based camera for healthcare management	M.J.P. Rohilkhand University, Bareilly	National	Under Process
28	2024	Artificial intelligence based stress detection device <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	444505-001 Design Patent
29	2024	Smart water boiling device with alert mechanism <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	442982-001 Design Patent
30	2024	AI based chemical mixing device for agriculture farm <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	443369-001 Design Patent
31	2024	Portable device for measuring glucose level through saliva <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	444286-001 Design Patent
32	2024	AI-based wireless electricity consumption monitoring device	M.J.P. Rohilkhand University, Bareilly	National	Under Process
33	2024	Medical device for measuring bodily fluid in neonates <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	443911-001 Design Patent
34	2024	Agriculture drone for monitoring and spraying pesticides <b>(GRANTED)</b>	M.J.P. Rohilkhand University, Bareilly	National	444503-001 Design Patent
35	2024	AI-based plant extract analysing	M.J.P. Rohilkhand University, Bareilly	National	Under Process

		device to identify disease	University, Bareilly		
36	2024	Automated prescription drug dispensing device ( <b>GRANTED</b> )	M.J.P. Rohilkhand University, Bareilly	National	443536-001 Design Patent
37	2024	Solar-powered electric vehicle charging station ( <b>GRANTED</b> )	M.J.P. Rohilkhand University, Bareilly	National	443904-001 Design Patent
38	2024	Smart switches with led lights to indicate switch state	M.J.P. Rohilkhand University, Bareilly	National	Under Process
39	2024	AI-enabled charging station for electric vehicles ( <b>GRANTED</b> )	M.J.P. Rohilkhand University, Bareilly	National	444739-001 Design Patent
40	2024	Smart device for mental health assessment	M.J.P. Rohilkhand University, Bareilly	National	Under Process
41	2024	Artificial intelligence-based eyewear for partially blind person	M.J.P. Rohilkhand University, Bareilly	National	Under Process
42	2024	AI-based device for traffic management and navigation	M.J.P. Rohilkhand University, Bareilly	National	Under Process
43	2024	Smart device for monitoring the health of horticultural plants	M.J.P. Rohilkhand University, Bareilly	National	Under Process
44	2024	Biosensor device to detect lung cancer using machine learning	M.J.P. Rohilkhand University, Bareilly	National	Under Process
45	2024	Smart portable industrial hydraulic drum lift machine	M.J.P. Rohilkhand University, Bareilly	National	Under Process
46	2024	Smart health monitoring wearable device	M.J.P. Rohilkhand University, Bareilly	National	Under Process
47	2024	AI-based medicine dispensing device	M.J.P. Rohilkhand University, Bareilly	National	Under Process
48	2024	Portable billboard for marketing and promotion	M.J.P. Rohilkhand University, Bareilly	National	Under Process
49	2024	AI-based smart goggles for construction labours	M.J.P. Rohilkhand University, Bareilly	National	Under Process
50	2024	Brain tumor detection device	M.J.P. Rohilkhand University, Bareilly	National	Under Process
51	2024	Portable solar-powered water purifier	M.J.P. Rohilkhand University, Bareilly	National	Under Process

52	2024	Health check-up device for pet animals	M.J.P. Rohilkhand University, Bareilly	National	Under Process	
53	2024	Stress and anxiety detection wristband	M.J.P. Rohilkhand University, Bareilly	National	Under Process	
(f) Projects (With Title, Year, Grants, Funding Agency and Collaborations)						
S.No	Year	Name of Project	Funding Agency	Amount	Duration	
					From	Till
1	2010	Technical Education Quality Improvement Programme (TEQIP-II) (Coordinator)	NPIU/MHRD/GoI (TEQIP-II Project)	Rs. 10.00 Crore	2010	2012
2	2017	Technical Education Quality Improvement Programme TEQIP-III (Coordinator)	NPIU/MHRD/GoI (TEQIP-III Project)	Rs. 10.00 Crore	2017	2022
3	2019	Determinants of Indian electronics manufacturing competitiveness industries: A TISMAHP approach (PI)	NPIU/MHRD/GoI (TEQIP-III Project)	Rs. 2.00 Lakhs	2019	2021
4	2019	Development of solar power thermo electric cooler using desiccant dehumidification (Co-PI)	NPIU/MHRD/GoI (TEQIP-III Project)	Rs. 10.21 Lakhs	2019	2021
5	2019	Hybrid solar air heater for space heating and crop drying (Co-PI)	NPIU/MHRD/GoI (TEQIP-III Project)	Rs. 12.61 Lakhs	2019	2021
6	2023	Monitoring of sustainable agriculture of small farms wielding Image processing integrating with Sensor Antenna and Machine learning for improving socio-economic status of farmers (Co-PI)	Science and Engineering Research Board, New Delhi	Rs. 27.02 Lakhs	08 May, 2023	On-going
7	2023	Development of an artificial intelligent based asset inspection system for the Energy Industries with scouting drones. (Co-PI)	Council of Science & Technology, U.P.	Rs. 14.58 Lakhs	19 Oct. 2023	On-going

		(Project ID 3246)				
(g) Research Guidance						
S.No.	Name of Ph.D. Candidate	Title	University	Submitted	Awarded	
1	Mohammed Nadeem Khalid	Experimental study of hardness and fatigue behaviour in joining of similar, dissimilar and alloy metals by friction stir welding.	Shri Venkateshwara University, Amroha		Awarded	
2	Savrabh Kawar	Energy efficient & Fault Tolerance in Wireless Sensor Network	Shri Venkateshwara University, Amroha	Submitted		
(h) Administrative Positions/Assignments Held						
S.No.	Post	Organization	Duration			
			From	Till		
1	In-Charge, Mech. Engg.	Mechanical Engg, MJPRU	Aug. 2009	2012		
2	TEQIP-II Coordinator	FET, MJPRU	Oct. 2010	2012		
3	TEQIP-III Coordinator	FET, MJPRU	Sept. 2017	2022		
4	Head, Mech. Engg.	Mechanical Engg, MJPRU	July 2018	2020		
5	Convenor, Diploma in Engineering	FET, MJPRU	Nov. 2020	Continues		
6	Proctor, Mech. Engg.	Mechanical Engg, MJPRU	Nov. 2021	2023		
7	Head, Mech. Engg.	Mechanical Engg, MJPRU	June 2023	Continues		
8	IPR Cell Coordinator	MJPRU	Sept. 2023	Continues		
9	Proctor, Chemical Engg.	Chemical Engg, MJPRU	July 2024	Continues		
10	Training and Placement Officer	MJPRU	Dec. 2024	Continues		
(i) Seminar/Conference Presentations						
S.No.	Title of paper presented	Conferences / Seminars / Workshops attended			International/ National	
1	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,			International (within Country)	



		IIM Lucknow and GVSU, USA 21-23 December, 2012	
2	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 21-23 December, 2012	International (within Country)
3	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 Globalsed Era and Rise of India under new leadership” IIT Delhi 20-23 November, 2014	International (within Country)
4	Investigating the Indian Electronics Manufacturing Sector using PEST-SWOT analysis tools	Proceedings XI Annual World Congress, titled “Business and Entrepreneurship Development in a Globalsed Era and Rise of India under new leadership” IIT Delhi 20-23 November, 2014	International (within Country)
5	Academic Globalization: A need for competitiveness of academic institutions	International Institute of Informatics and Systemic, 19 <sup>th</sup> World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI-2015), Orlando, Florida, USA 12-15 July, 2015	International (Abroad)
6	Improving Competitiveness of Indian Electronics Manufacturing Industries: A need for FDI policy liberalization	International Institute of Informatics and Systemic, 19 <sup>th</sup> World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI-2015), Orlando, Florida, USA 12-15 July, 2015	International (Abroad)
7	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 22 January, 2016	International (within Country)
8	The social media cone: Towards achieving the manufacturing competitiveness goals	15 <sup>th</sup> IFIP I3E Conference on e-Business, e-Service and e-Society ‘ Social media: the good the bad and the Ugly 13-15	International (Abroad)

		September, 2016, School of Management, Swansea university, UK	
9	Digitized residential address system: A necessity towards the faster service delivery and smart cities development in India	16 <sup>th</sup> 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)
10	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)
11	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)
12	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 4-6 December, 2016	International (Abroad)
13	The Future of manufacturing: Global Value chains, smart specialization and flexibility	Global Institute of Flexible Systems Management, International Conference and Proceedings of GLOGIFT 16, University of Technology, Sydney 4-6 December, 2016	International (Aboard)
14	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)
15	Smart mobility: Crowdsourcing solutions for smart transport	ACM Press, ICEGOV 2018. Ireland, UK ICEGOV 2018	International (Abroad)

	system in smart cities context.		
16	Numerical Simulation of flow past a flat plate with anti-singing trailing edge	2 <sup>nd</sup> International Conference on Computational & Experimental Methods in Mechanical Engineering (ICCEMME-2019), 03-05 May, 2019	International (within Country)
17	Products and Services in Industries	Department of Mechanical Engineering, Government Engineering College Jhalawar Expert Lecture on 02 December, 2018	National
18	Inventory Management	Department of Mechanical Engineering, Government Engineering College Jhalawar Expert Lecture on 27 January, 2019	National
19	Driving competitive advantage for high technology manufacturing: A social media perspective	AGBA's 16 <sup>th</sup> World Congress, 2-4 July, 2019, IIT Delhi	International (within Country)
20	Forecasting methods in Industries	Department of Mechanical Engineering, Government Engineering College Jhalawar Expert Lecture on 24 August, 2019	National
21	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 Technology, Longowal, Sangrur, Punjab, India	National
22	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
23	Investigation of flow field in	ICAREMIT-2020, MJP Rohilkhand	International

	accelerated erosion test rings	University, Bareilly (U.P.) India 1-3 February, 2020	(within Country)
24	Development of textured tool for process improvements in dry machining	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India 1-3 February, 2020	International (within Country)
25	A review of hybrid solar air heater	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India 1-3 February, 2020	International (within Country)
26	Conversion of waste heat to electricity using thermoelectric generator: A review	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India 1-3 February, 2020	International (within Country)
27	Fabrication of hybrid braking system	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India 1-3 February, 2020	International (within Country)
28	Design and construction of an ornithopter	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India 1-3 February, 2020	International (within Country)
29	Comparative investigation on depth of cut in CO2 laser beam machining of MDF and acrylic	ICAREMIT-2020, MJP Rohilkhand University, Bareilly (U.P.) India 1-3 February, 2020	International (within Country)
30	High-End Workshop on Photonics Sensor for Chemical & Gas Detection	Science and Engineering Research Board (SERB) Dept. of Science and Technology, Govt. of India, organized by Indian Institute of Technology (ISM) Dhanbad, Jharkhand, India	International (within Country)
31	Technology will make India a developed nation@2047.	Mahamaya Polytechnic of Information Technology, Bachhraun, Amroha	National
32	International Conference on Artificial Intelligence: Challenges, Opportunities and its impact on Society (ICAI-2024)	Rajshree Institute of Management & Technology, Bareilly in association with Lumbini Technological University, Nepal 26-27 April, 2024	International (within Country)
33	38 <sup>th</sup> National Convention of Production Engineers and National Conference on Green	The Institution of Engineers (India) Bareilly Local Centre M.J.P. Rohilkhand University, Bareilly	National

	and Bio-inspired Manufacturing- The Way Forward	02-03 May, 2024	
34	One Week Online Faculty Development Program on Additive Manufacturing for Sustainability and Industry 4.0	Department of Mechanical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, India, 18-22 November, 2024.	National

#### **(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.

#### **(l) International Academic Exposure**

Paper Presented and Participated in International Institute of Informatics and Systemic, 19<sup>th</sup> World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI-2015), Orlando, Florida, USA

Paper Presented and Participated in 15<sup>th</sup> 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 of Management, Swansea university, UK

#### **(m) Keynote Speaker & Session Chair**

**Keynote Speaker** at the National Conference on Advanced Research Trends in Engineering (NCARTE-2022) held on 25-26 March, 2022 organised by Department of Electronics & Communication, Mechanical and Electrical Engineering, Shri Ram Murti Smarak College of Engineering and Technology, Bareilly

(U.P.), India.			

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**Signature of Faculty Member**