

Faculty Profile

FacultyName	Dr. Pawan Kumar
Designation	Assistant Professor (ME)
Qualification	Ph.D, M.Tech, B.Tech
Email	pawankumar@gecnilokheri.ac.in
Area of Interest	Machining & Manufacturing Engineering
Work Experience (Total)	16.6 years
• Teaching	16 Years
• Research	NIL
• Industry	6 Months
• Others	NIL
Courses taught at Diploma/ PostDiploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	UG:- Measurement & Control, Production Technology, Refrigeration and Air-Conditioning, Thermodynamics, Applied Thermodynamics, Operation Research, Fluid Mechanics, Non-Conventional Manufacturing Process PG:- Advanced Thermodynamics, Product Design and Development, Non-conventional Machining Precision Engineering, Design Thinking, Robotics and Automation, Mechatronics
Membership of Professional Bodies	Coordinator of Departmental Club "MECHANOIDS"
Research Publications	
• Research Papers UGC-CARE	4
• Research Papers SCOPUS	14
• Research Papers WoS/SCI/ABDC	
• List of Publications	Enclosed as Annexure-I

M.Tech. Guidance	
• Degree Awarded	01
• Thesis Submitted	02
Invited lectures/Resource Person/paper Presentation in Seminars/Conferences/full paper in Conference	02
• International (Abroad)	
• International (Within Country)	03
• National	
• List of published papers	Enclosed as Annexure-II
Organizing National Conference/ International Conference/FDP/STTP	
• List of Conference/FDP/STTP committee	
Social Contributions and Sports	
• List of Social Contributions and Sports	01

ANNEXURE-1

List of Publications:

- Manish, Sandeep Kumar Khatkar, **Pawan Kumar**, and Amit Gupta (2023). Study of Different Types of Reinforcements in Polymer Composites - A Review, *International Conference on Innovations in Mechanical and Materials Engineering (IMME 2022)*, Nano World Journal
- Anupam, Sandeep Kumar Khatkar, **Pawan Kumar** and Amit Gupta (2023). Magnesium and solid lubricants based self-lubricating metal matrix composites: A comprehensive review and future directions. (*International Conference on Innovations in Mechanical and Materials Engineering, (IMME-2022) Nano World Journal* (Scopus Indexed/UGC approved list).
- Anupam, Sandeep Kumar Khatkar, **Pawan Kumar** and Amit Gupta (2023). Reinforcement Philosophy and Effect of Nano Sized Materials on Mechanical, Corrosive and Wear Behaviour of Magnesium Nano-composites- A Critical Review *International Conference on Recent Advancements in Nanotechnology for Sustainable Developments*
- Vivek, **Pawan Kumar**, Sandeep Kumar Khatkar and Amit Gupta (2023). TIG Welding Cladding of Stainless Steel using Inconel Series Alloy: A Review, *International Conference on Innovations in Mechanical and Materials Engineering (IMME-2022) Nano World Journal*

- Nitin Rathi, **Pawan Kumar**, Sandeep Kumar khatkar, Amit Gupta (2023). Non-conventional machining of nickel based superalloys: A Review, *International Conference on Advancements in Manufacturing Engineering (ICAME 2022)*, *Materials today proceedings*
- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2021). Experimental investigation of surface crack density and recast layer thickness of WEDMed Inconel 825. *Journal of Computational and Applied Research in Mechanical Engineering*, (Scopus Indexed/UGC approved list).
- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2021). Experimental investigation of surface crack density and recast layer thickness of WEDMed Inconel 825. *Journal of Computational and Applied Research in Mechanical Engineering*, (Scopus Indexed/UGC approved list).
- **Pawan Kumar**, Meenu Gupta, Arvind Kumar, Sandeep Sangwan (2020). State of art research trends in Wire-Cut Electric Discharge Machining (WEDM). *Journal of Critical Review*, 7(19):2702-2723(Scopus Indexed/UGC approved list).
- Sandeep Singh Sangwan, **Pawan Kumar**, Mukesh Kumar (2020). Statistical optimization of the Gas Metal Arc welding parameters in hard facing with consideration of multiple weld qualities. *Journal of Critical Review*, 7(19):2664-2671(Scopus Indexed/UGC approved list).
- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2019). Parametric optimization of WEDM characteristics on Inconel 825 using desirability approach. *International Journal of Recent Technology and Engineering (IJRTE)*, 8(2): 4992-4996 (Scopus Indexed/UGC approved list).
- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2019). Experimental analysis of WEDM machined surface of Inconel 825 using single objective PSO. *IOP Journal of Physics: Conference Series*, (NFEST 2019, NIT, KKR)1240 (2019) 012053doi:10.1088/1742-6596/1240/1/012053 (Web of Science, Scopus Indexed/UGC approved list).
- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2019). Multi-Objective Particle Swarm Optimization of WEDM Process Parameters for Inconel 825. *Journal of Computational and Applied Research in Mechanical Engineering* (Scopus Indexed/UGC approved list).
DOI: 10.22061/JCARME.2019.4297.1518
- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2019). Multi-response optimization of WEDM characteristics and microstructural analysis of machined Inconel 825 using desirability approach. *Journal of Mechanical Behaviour of Materials*, 28: 39-61 (Scopus Indexed/UGC approved list).
- **Pawan Kumar** et al. (2019) Process parameters optimization of Wire-cut Electric Discharge Machining: A Review. *A Journal of composition theory*, 12(7): 982-996.
- Arvind Kumar, **Pawan Kumar**, Sandeep Sangwan (2019). Investigation of Kerf quality of Inconel material machined by Abrasive water jet. *A Journal of composition theory*, 12(7): 1008-1015.

- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2018). Optimization of process parameters for WEDM of Inconel 825 using grey relational analysis. *Decision Science Letters*, 7(4): 405-416 (Scopus Indexed/UGC approved list).
- **Pawan Kumar**, Meenu Gupta, Vineet Kumar (2018). Surface integrity analysis of WEDMed specimen of Inconel 825 superalloy. *International Journal of Data and Network Science*, 2(3): 79-88.
- Rajan Garg, **Pawan Kumar** and Birajashis Patnaik (2016). Designing & Modeling of 3-Way Catalytic Converter in a Two-Stroke S.I Engine. *International Journal of R&D in Engineering, Science and Management*, 3(7): 187-192.

ANNEXURE-II

International Conference

- **Pawan Kumar**, Sandeep Malik “Experimental Analysis of Process Parameters on Machining Performance of WEDM” *International conference on Emerging Technology” (ICET-2014) sponsored by TEQIP-II, 24-26 April, 2014, NCCE, Israna.*
- Jaswinder, **Pawan Kumar** “Application of Acoustic Signal for Wear Detection of Gear” *International conference on Emerging Technologies” (ICET-2014) sponsored by TEQIP-II, 24-26 April, 2014, NCCE, Israna*
- Sumit Sakhuja, Gulshan Sharma, **Pawan Kumar** “Genetic algorithm approach to solve job-shop scheduling problem with sequence dependent set up times” *International conference on “Mathematics and Soft Computing (Application in Engineering)” sponsored by DST, DRDO, ICMR, December, 2010, NCCE Israna.*