

Faculty Profile

Name : Dr. Narender Singh
Designation : Assistant Professor
Qualifications : PhD (GGSIPU)
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Email : narender_singh@msit.in
Area of Interest/Specialization: Manufacturing technology, EDM
Experience : 14 years



I have completed my Ph.D from GGSIPU in the field of micro-Electric discharge machining.

Key Publications:-

1. Singh N., Bharti P.S. (2022) Experimental investigations and parametric optimization during micro-EDM drilling of Ti-5.6Al-3.6V using ABC algorithm. *Journal of Engineering Research*. <https://doi.org/10.36909/jer.ICMET.17201> (SCI)
2. Singh N., Bharti P.S. (2022) Multi-response Optimization of micro-EDM drilling of Ti-5.6Al-3.6V using grey-fuzzy logic based approach. *Advances in Materials and Processing Technologies*. <https://doi.org/10.1080/2374068X.2022.2096832> (ESCI)
3. Singh N., Bharti P.S. (2022) Multi-Objective parametric optimization during micro-EDM drilling of Ti-6Al-4 V using teaching learning Based optimization algorithm. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2022.03.257>
4. Singh N., Bharti P.S. (2020) A review on micro electric discharge machining of titanium alloys. *Materials Today: Proceedings*.25, 742-750. <https://doi.org/10.1016/j.matpr.2019.08.235>
5. Singh B., Singh N. (2022) Modelling of Manganese and Nickel Transfer in Terms of Flux Ingredients in SAW. *Recent Developments in Mechanics and Design, Lecture Notes in Mechanical Engineering*. https://doi.org/10.1007/978-981-19-4140-5_24.

Papers presented in Conferences (Scopus indexed international conference):-

1. One paper having title "Optimization of flux for Bead geometry and weld dilution in SAW using grey analysis" presented in 7th National Conference Advances in Metrology (ADMET-2021) organized by MSIT on 6th -7th March, 2021 and published as a Lecture Notes in Electrical Engineering 906 in book "Recent Advances in Metrology".
2. One paper having title ""Grey-fuzzy logic-based technique for multi-response optimization of micro-EDM drilling of Titanium alloy" in International Conference on Recent Trends in Materials Science & Devices 2023 (ICRTDM 2023) organized by Research Plateau Publishers & G.A.V. Degree College, Patauda, Jhajjar, Haryana, India on 22-23 JULY, 2023.

Patent:-

1. One patent is published with title "A COMPUTATIONAL MATERIAL SCIENCE SYSTEM BASED ON PYTHON POWERED DATA ANALYSIS" on dated 21/06/2024.

Awards and Recognitions:-

1. A letter of Appreciation is received from MSIT for academic year 2014-15 for outstanding contribution and continued dedication towards the multi-dimensional growth of the institute.

2. A certificate of excellence in research for the year 2022.

Extra Qualification:

1. Certificate Course in UG NX-5 from NSIC, Okhla, Delhi
2. NSS Programme Officer

Software Skills:

1. CAE Tools (solvers) – ABAQUS, MSC/Nastran
2. CAE Tools (pre-post) – HyperMesh 8.0, ANSA
3. CAD/Drafting – Unigraphics NX4, AutoCAD