

Dr. Sudhir Kumar (Lecturer, Department of Mechanical Engineering)

Research Paper Publications

1. **Sudhir Kumar**, A. Gupta, Ajay Pratap Singh, Harish Kumar (2025). Optimizing Parameters of Electric Discharge Machining for AISI420 Stainless Steel Using Weighted-Grey Relational Analysis. In: Singla, A.K., Shahi, A.S., Katoch, S. (eds) Recent Trends in Material Processing, Characterization and Applications. AEMTA 2024. Springer Proceedings in Materials, vol 73. Springer, Singapore. https://doi.org/10.1007/978-981-96-5856-5_43
2. Manisha Sharma, **Sudhir Kumar**, Anurag Rai, A. Gupta (2025). “Multi-variable Optimization in Electric Discharge Machining of AISI304 Stainless Steel Using Grey Entropy Weight Method”. In: Yadav, S., Garg, N., Kumar, M., Aggarwal, S.G., Jaiswal, S.K., Kumar, M. (eds) Advances in Metrology. AdMet 2024. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-96-6418-4_24
3. Ajay Pratap Singh, Harish Taluja, **Sudhir Kumar**, A. Gupta (2025). Experimental Investigation and Multi-Variable Optimization of Electric Discharge Machining Process for AISI420 Stainless Steel. In: Yadav, S., Garg, N., Kumar, M., Aggarwal, S.G., Jaiswal, S.K., Kumar, M. (eds) Advances in Metrology. AdMet 2024. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-96-6418-4_12
4. Bhoomika Bhoomika, Priyanka Rai, A. Gupta, Rohit Kumar, **Sudhir Kumar**, Ranjeet Ranjeet (2025). “Dust buster: A novel mechanism for blackboard duster”, *AIP Conf. Proc.* 3297, 070007. <https://doi.org/10.1063/5.0297377>

Patent:

- Design Patent related to “Smart Wearable Device”. Design No. 449786-001 and Date of Issue: 25.08.2025