

Dr. Sudhir Kumar

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Ph.D., M.Tech., B.Tech. (Mechanical Engineering)



AREAS OF INTEREST:

Advanced Machining Processes (EDM & AWJM), Optimization Techniques for Manufacturing

EDUCATION:

- Ph.D., Indian Institute of Technology (Indian School of Mines), Dhanbad (Jharkhand), 2022.
- M.Tech. (Machine Design), Maharshi Dayanand University, Rohtak (Haryana), 2011.
- B.Tech.(Mechanical Engineering), Uttar Pradesh Technical University, Lucknow, 2008.

ACADEMIC EXPERIENCE:

- Foreman Instructor, Government Polytechnic, Uttawar (Palwal), 09.08.2016-present

SELECTED PUBLICATIONS:

1. **Sudhir Kumar**, Sanjoy Kumar Ghoshal, Pawan Kumar Arora & Leeladhar Nagdeve. Multi-variable optimization in die-sinking EDM process of AISI420 stainless steel. Mater.Manuf. Processes. 2021, 36(5), 572-582. DOI: <https://doi.org/10.1080/10426914.2020.1843678> (SCI IF: 4.616)
2. **Sudhir Kumar**, Sanjoy Kumar Ghoshal & Pawan Kumar Arora. Optimization of process variables in electric discharge machining (EDM) using Taguchi methodology. Indian J Eng Mater Sci. 2020. 27(4), 819-825. (SCI IF: 0.881).
3. Harish Kumar, Chitra Sharma, Anil Kumar, P K Arora, **Sudhir Kumar**. Design, Development and Metrological characterization of a Low-capacity precision industrial Force transducer, ISA Transactions. 2015, 58, 659-666. DOI: <https://doi.org/10.1016/j.isatra.2015.07.011>. (SCI IF 5.468)
4. **Sudhir Kumar**, H Kumar. Development and Testing of Ring-Shaped Force Transducers, J Sci Ind Res (India). 2014, 73(2), 103-106. DOI: <http://hdl.handle.net/123456789/26449> (SCI IF: 1.056)

BOOK PUBLICATION (2)

1. Thermodynamics Made Easy (2012), Acme Learning, ISBN : 978-93-80408-86-6.
2. Thermal and Hydraulic Machines (2010), Acme Learning, ISBN: 978-93-80408-32-3

MEMBERSHIP AND AFFILIATIONS:

- Life member, Metrology Society of India (L M No. 1156).
- Life member, International Association of Engineers (L M No. 119554).

ACHIEVEMENTS:

- GATE 2013 Qualified in Mechanical Engineering (ME) with 92 percentiles.

PROFILE:

- Google scholar: <https://scholar.google.com/citations?user=mkD0FssAAAAJ&hl=en>
- Research Gate: <https://www.researchgate.net/profile/Sudhir-Kumar-34>
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