Dr.Vinay kumar

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OBJECTIVE

Seeking the role of Assistant Professor in Mechanical Engineering & Management to apply my academic knowledge, deliver effective teaching, and pursue research in advanced manufacturing and materials engineering. I can integrate industry experience with academic education, guide students in practical learning, and contribute to departmental research and development.

EDUCATION

PhD (2020-2025) 7.5 cgpa	Hybrid welding process, Additive manufacturing, solid state welding/processing of light materials such as Aluminium alloys for electric vehicles	Delhi Technological University((formerly Delhi College of Engineering)) Delhi-110042, India
M.TECH(2016-2018) 8.21 cgpa	Production and industrial engineering	Delhi Technological University (formerly Delhi College of Engineering), Delhi-110042, India

TECHNICAL SKILLS

- Design expert software for the optimization of experimental data
- Minitab software optimization software
- MATLAB software

Technical subjects

- Operation research
- Fluid mechanics
- Manufacturing science
- Theory of the machine

WORK EXPERIENCE

Working as a guest faculty in the Delhi Technological University mechanical engineering department from 2018 to 2020, then completing my phd as a full-time phd research scholar

RESEARCH PAPERS

[1] Kumar, V., Vipin and Mishra, R.S., 2024. Effect of multipass friction stir processing on microstructure and mechanical properties of MIG-welded joints of AA6082 and AA7075. *Journal of Adhesion Science and Technology*, *38*(7), pp.1062-1080.**[SCIE, Impact fact-2.7]**

[2] Kumar, V., Vipin and Mishra, R.S., 2024. Optimising the quality of several welds in a metal-inert gas arc joining of AA6082 and AA7075 using the grey-based Taguchi technique. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, p.09544089241279157.**[SCIE, Impact factor-3.2]**

[3] Kumar, V., Vipin and Mishra, R.S.,2025 Effect of Friction stir processing and ER4043 coating on the MIG welded joint of AA7075 and AA6082, *Journal of Adhesion Science and Technology* 77(8),pp 6087-7094 **[SCIE-Impact factor-2.7]**

INTERNATIONAL CONFERENCE PAPER PRESENTED

[1] International symposium on the fusion of science and Technology (ISFT-2024)
[2]International Conference on Advances in Renewable and Green Energy Technology (ICARGET-2023)
[3] 22ND ISME - International Conference on “Recent Advances in Mechanical Engineering for Sustainable Development (ISME-2024) ” organized by the Department of Mechanical Engineering, Delhi Technological University " Influence of Friction Stir Additive Manufacturing Parameters on Aluminium-Silicon Carbide Nanocomposites' Microstructure, Hardness, and Wear Resistance."

RECOGNITIONS

- 3-SCI Journals and three conference research papers were published
- Received 01 research excellence awards by DTU
- Received 2 recognitions from circle heads in Ericsson for audit and RET activities
- M.Tech Topper
- Secured 1703 AIR in GATE 2016
- Secured 97.12% in GATE 2017,

CERTIFICATIONS

- FDP on “Activity-Based Designing using Autodesk Fusion” | DTU | July 07–11, 2025

INTERESTS AND HOBBIES

- Training at the Gym.
- Watching movies.
- Learning new skills.
- Chess champion with a gold medal at the university level

PERSONAL TRAITS

- Having innovative ideas in the desired field.
- Ability to learn from success as well as failure.
- Strong will power, high commitment, consistency and dedication
- Dedicated to academic excellence and student success
- Continuous learner with research enthusiasm