

Faculty Profile

Name : Aruna Mokhamatam
Designation : Assistant Professor
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About me: I have been working as an Assistant Professor in the Department of Mechanical Engineering since 2015. I teach manufacturing-related courses to undergraduate students and strive to deliver concepts in a simple and effective manner so that students can clearly understand manufacturing processes and their role in the product life cycle. My goal is to help students apply this knowledge to develop solutions that address the needs of society while considering environmental sustainability. My research interests include advanced manufacturing and the application of contemporary machine learning techniques in manufacturing systems.

Qualification:

B.Tech. (Nagarjuna University), M-Tech (IIT Kharagpur), Ph.D. (VTU, Belagavi)

Courses Taught:

UG

1. Manufacturing Processes
2. Machining Science and Metrology
3. Applied Thermodynamics
4. Coordinate Metrology
5. Heat Transfer
6. Computer Aided Engineering Drawing
7. Turbomachines
8. Research Methodology
9. Operations Research
10. CAD/CAM
11. Python Programming

Publications:

1. Aruna Mokhamatam, K. R. Prakash, B. S. Sharmila and H. V. Divya “A Machine Learning based Frame Work for Predicting Overall Equipment Effectiveness with Environmental Factors in Additive Manufacturing”, Journal of Mines, Metals and Fuels; 73(5): 1-18; 2025. DOI: 10.18311 Print ISSN: 0022-2755.
2. Aruna Mokhamatam, K.R. Prakash, B.S. Sharmila “SQ-3DP: A Novel Dataset for Predicting Surface Quality in 3D Printing using Machine Learning”, SSRG International Journal of Mechanical Engineering, Volume 12 Issue 7, 25-34, July 2025, ISSN: 2348-8360.
3. Arun Kumar K N, Aruna Mokhamatam, Shivaraj Dharennavar, Meenakshi “Investigation on The Effect of Carbon Fiber Reinforcement on The Mechanical and Physical Properties of FDM 3d Printed PLA”, Year : 2026 | Volume : 14 | Issue : 01 | Page : 284 298
