

Faculty Profile

Name: NANDINI T S

Designation: Assistant Professor

Department: Mechanical Engineering

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About me: Mechanical Engineering academic with research interests in Supply Chain Management, Lean Manufacturing, and Industrial Engineering. My research focuses on Lean–Agile supply chain integration, operational performance enhancement, and sustainable manufacturing practices, particularly in MSME sectors. I have contributed to peer-reviewed journal publications in areas such as manufacturing processes, composite materials, and process optimization.

I possess teaching experience in both engineering and management-oriented subjects including Supply Chain and Logistics Management, Lean Manufacturing Systems, Industrial Ergonomics, Metrology and Measurement, Project Management, and Financial Management. My teaching approach emphasizes the integration of theoretical concepts with practical industrial applications to enhance students’ analytical and problem-solving abilities. I am actively engaged in academic research, publication activities, and collaborative projects aimed at improving manufacturing efficiency and supply chain performance through innovative and sustainable engineering solutions.

Qualification:

B. E, PGDBA HR, M.Sc. Engg by Research, Pursuing Ph.D

Courses Taught:

- Supply Chain and Logistic Management
- Metrology and Measurement
- Financial Management
- Project Management
- Industrial Ergonomics
- Lean Manufacturing System

Publications:

Journal Publications

- 1. Aluminum Extrusion Profile Light Sections Die Failure Analysis and its Preventive Measures, *Journal of Advanced Engineering Science*, Vol. 7, July 2023, pp.3891–3905. Publisher: Gongcheng Kexue Yu Jishu / Advanced Engineering Science. ISSN: 2096-3246.**
- 2. Investigation of Slurry Erosion Wear Behaviour on Coir-Filled Polypropylene Composites, *Journal of Mines, Metals & Fuels*, Vol. 73, Issue 5, May 2025.**
- 3. “Process capability improvement in pumping element manufacturing,” *International journal of research science and management*, June, 2015,.**

Conference Proceedings

1. Modeling 4Ps of Toyota way principles in MSMEs supply Chain-an empirical approach." *Materials Today: Proceedings* 92 (2023): 284-290.
2. “Implementation of Lean Tools in Rubber Tube Manufacturing Industry” ICCTEM-2014

Book Chapters

1. Modeling the Enablers of Lean and Agile Manufacturing for Sustainable MSMEs Supply Chain—An ISM Approach., Book Chapter