

Mr. SANTHOSHA M

Assistant Professor,
Dept. of Mechanical Engineering

Address:

Department of Mechanical Engineering,
Bapuji Institute of Engineering and Technology
Post Box: 325, Shamanur Road,
Davangere-577004, Karnataka, India.



Career Objective

To pursue a versatile and goal-oriented career in my specialized areas using the skills acquired and passions for the development of the organization and grow myself along with the organization.

Research Interests

- Design Methodology
- FEM, CAD
- Smart Materials
- Tribology & Controls
- Design for Biomedical Applications
- Composite Materials

Academic Profile

Ph.D.

Pursuing Doctor of Philosophy (Ph.D.), in Mechanical Engineering from Srinivas University, Mangalore.

- **Thesis Title:** “Fracture Analysis of Natural Fiber Polymer Reinforced Composites: An Experimental Study”

I have completed my Ph.D. courses, finalized the doctoral thesis title, materials and methodology, and also submitted a synopsis.

Responsibilities @BIET

- Institute Level NAAC Criteria-3 coordinator
- Institute Level I- 17 File coordinator during NBA accreditation
- Department (Program) NBA CRITERIA-3 Coordinator
- Department Website Coordinator
- Department ERP Coordinator
- Student Mentor for higher semester students

Subjects taught at UG and PG Levels

For B.E.

Tribology, Finite Element Method, Elements of Mechanical Engineering, Introduction to Mechanical Engineering, Energy and Environment, Innovation and Design Thinking.

For M. Tech.

Composite Materials, Finite Element Analysis and Research Methodology.

Project Guidance

1. **For B.E.:** 5 batches
2. **For M.Tech.:** 1 students

Journal and Conference Publications

International Journal Publications:

1. Manjunatha GM, **Santhosha M** and Raghavendra NT, “Experimental Investigation of Fracture Analysis of Hybrid Natural Fiber Reinforced Polymer Composites – A Comprehensive Review”, International Journal of Engineering Research and Technology (IJERT), Volume 12 (Issue 11), ISSN: 2278-0181.
2. **Santhosha M**, Raghavendra NT and Manjunatha GM, “Review of Fracture Analysis of Natural Fiber Polymer Reinforced Composites: An Experimental Study”, International Journal of Engineering Research and Technology (IJERT), Volume 12 (Issue 11), ISSN: 2278-0181.
3. Raghavendra NT, Manjunatha GM, **Santhosha M**, “Review on Bearing Strength and Failure Behavior on Fiber Reinforced Composite Joints”, International Journal of Engineering Research and Technology (IJERT), Volume 12 (Issue 11), ISSN: 2278-0181.

International Conferences

1. Presented a paper entitled “Design and fabrication of reverse gear mechanism for handicapped person vehicle using gearbox with differential” in an International conference organized by MVJ College of Engineering, Bangalore on April 29-30, 2019.

Post Graduation

2014-2016

Master of Technology (M.Tech.) in Mechanical Engineering from Bapuji Institute of Engineering and Technology, Davanagere, affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, India.

Under Graduation

2011-2014

Bachelor of Engineering (B.E.) in Mechanical Engineering from G M Institute of Technology, Davanagere, affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, India.

Professional Experience

Assistant Professor

Department of Mechanical Engineering, Bapuji Institute of Engineering and Technology, Davanagere from August, 2017 to till date.

Professional Memberships

- Member of Indian Society for Technical Education (MISTE) [LM125336]

Events Organized

As a part of AUTODESK, The Department of Mechanical Engineering, organized a Faculty Development Program on “Introduction to Modelling and Design for Manufacturing” Using Fusion 360 by AUTODESK from 11th to 13th Dec 2023 at 10.30 AM at CAMD Lab.

FDP/Seminars/Workshops Attended

1. Attended one week AICTE- ISTE Sponsored Refresher Program on “Design Thinking” held during 07th March 2022 to 12th March 2022, organized by the VTU e-learning center, Mysuru and Vidyavardhaka College of Engineering, Mysuru.
2. One Week faculty development programme on “Current Trends in Manufacturing” organised by Department of Mechanical Engineering & IQAC SJMIT from 13-06-2022 to 17-06-2022.
3. FDP on “Industry Demands, Coding and No Coding Options, Job Requirements, Career Guidance and Certifications”.
4. 5-Day Faculty Development Program on Recent trends in Mechanical and Industrial Engineering organized by the Department of Mechanical Engineering from 17th-21st August, 2020.
5. One Week National Level Online Faculty Development Programme on “Advances in Materials & Manufacturing” organized by Department of Mechanical Engineering from 12-07-2021 to 16-07-2021.
6. AICTE & MRSPTU approved One Week Short Term Training Program on "Recent Advancements in Materials & Manufacturing" from 25th to 30th January, 2021, organized by Department of Mechanical Engineering, GZSCCET MRSPTU, Bathinda.
7. One Week Online Short Term Course on “Reliability, Maintainability and Quality Issues in Process Industries” Organized at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India from 04- 08 August, 2020 under TEQIP-3.
8. Two days workshop on “Implementation of National Education Policy-2020” organized by Bapuji Institute of Engineering and Technology, Davanagere in association with Visvevaraya Technology University, Belagavi on 10th and 11th of December 2021 at B.I.E.T, Davanagere.

Extra/Co-Curricular Activities

1. Active participation in organizing and hosting the department forum activities

Research Plan

Research Plan for the Next Five Years

- To work on “Additive Manufacturing Revolution (3D Printing)” for the Creation of Intricate and Complex parts with unprecedented Precision. The aerospace and healthcare industries are particularly benefiting from this technology, with reduced material wastage and quicker production times.
- To work on “Artificial Intelligence Integration (AI)”. It is a game-changer in mechanical engineering. With AI, machines can now learn, adapt, and make decisions, leading to improved automation and efficiency. In manufacturing, AI-powered robots and machines can detect defects, optimize production schedules, and reduce downtime.
- To get more research grants from funding agencies like AICTE/DST/VGST/ICMR and other funding agencies.

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