


Faculty Profile

Name of Faculty	Mr.Madhu P	
Department	Mechanical	
Qualification	B.E., M.Tech., (Ph.D).	
Designation	Assistant professor	
Area of specialization	Machine Design	
Date of Joining BNMIT	23.07.2012	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
e-mail	madhup@bnmit.in, pmadhu.mech@gmail.com	
No. of years of Experience	Teaching: 7.5 years	

Academic Qualifications

- **Ph.D (Pursuing)** Completed comprehensive viva K. S. School of Engineering & Management under VTU, Belagavi, India.
- **M.Tech** (2011), Machine Design, Visvesvaraya Technological University, Belagavi, India (FCD).
- **B.E** (2005), Mechanical Engineering, Visvesvaraya Technological University, Belagavi, India (FCD).

Working Experience Details

- Asst. Professor, Mechanical Engineering, B.N.M.Institute of Technology, Bangalore, India, (2012 – Till date).
- Lecturer, Mechanical Engineering, R.L.Jalappa Institute of Technology, Doddaballapur, India, (Aug2011 – July 2012).

Subjects taught

Computer Aided Engineering Drawing, Computer Aided Machine Drawing, Mechanics of Materials, Kinematics of Machines, Dynamics of Machines, Finite Element Method.

Research Experience Details:

M. Tech:

Title: Design and Automation of Expansion Tool to Expand Shape Memory Alloy (SMA) Rings

The SMA rings are being used for clamping Poly Ether Ether Ketone (PEEK) insulator tubes onto the Aluminum alloy tubes. The SMA rings has to be expanded before making the conduit pipe assembly. The

Expansion tool is designed and automated for the expansion of SMA rings mechanically in liquid nitrogen at cryogenic temperature.

Ph.D:

Title: Experimental and analytical approach in optimizing profile of guide ways for energy efficiency in lathe machine tool.

Guide: Dr.A Shailesh Rao

Research Projects

Completed

Title: Development and Fabrication of Street Sweeping Machine.

Funding Agency: KSCST

Amount: Rs.6000/-

Duration: 04 Months (Jan 2018 – June 2018)

Research Publications:

I. In National & International Journals

International Journals:

1. “Design and Fabrication of Stir Casting Furnace with Bottom Pouring Arrangement for the Development of Aluminum Particulate Metal Matrix Composite” International Journal of Latest Research in Engineering and Technology (IJLRET) ISSN: 2454-5031.

II. In National/International Conference Proceedings

1. Characterization of Al-CNT MMC in “International Conference on Advances in Mechanical Sciences ICAMS-2017” held during 3-5, March 2017 at Malnad College of Engineering, Hassan.
2. “Non Linear Analysis of Rubber boot in passenger Car” Second International Conference on Recent Research Emerging Trends in Mechanical and Civil Engineering (ICRRERMCE-2018) held on 13th & 14th July 2018.

Participation in Training courses/Seminars/Workshops:

1. One day training program on Cyber Security & Cyber Laws at BNMIT on 20th August 2014.
2. One day workshop on “Domain knowledge Augmentation in Mechanical Engineering” at K.S.School of Engineering & Management on 31st January 2014.
3. One week FDP program on “Technological Advancements in manufacturing and Application of Smart Materials, Structures and Systems” at Vemana Institute of technology from 9-13th December 2014.

4. 3 day workshop on “Research Methodologies & Latex” at Acharya Institute of Technology from 29- 31 July 2015.
5. One Week Workshop on Nanomaterials and Nano composites at MSRIT, Bengaluru, from 20th to 25th June 2016.
6. FDP on Research Avenues in Thermal Design And Manufacturing Engineering by Dept. of Mechanical Engineering, BNMIT from 11th to 16th July 2016
7. Two day National Conference on “Advanced Materials & Design” at BMSIT&M , Bengaluru, From 29th & 30th July 2016.
8. FDP on Recent Advancements in Mechanical Engineering by Dept. of Mechanical Engineering, BNMIT from 16th to 21st Jan 2017.
9. FDP on Emerging Research Areas and Trends in Mechanical Engineering by Dept. of Mechanical Engineering, BNMIT from 31st July to 5th Aug 2017.
10. FDP on Research Issues and Challenges in Mechanical Engineering by Dept. of Mechanical Engineering, BNMIT from 16th July to 20th July 2018.

Personal Details:

- **Date of Birth:** 11 - 04 -1988; **Sex:** Male.
- **Family Details:** Wife

16th February 2019

MADHU P