


RESUME

Name of Faculty	Hemanth Kumar C	
Department	Mechanical Engineering	
Qualification	B. E, M. Tech (Ph. D)	
Designation	Assistant Professor	
Area of specialization	Machine Design, Fatigue of Materials	
Date of Joining BNMIT	07.07.2016	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
Mobile Number	9901702164	
e-mail	hemanthkumarc@bnmit.in, hemanthkumar.sh17@gmail.com	
No. of years of Experience	Teaching: 06 years	

Academic Qualifications

- **Pursuing Doctor of Philosophy** (2016) in Department of Studies, University B.D.T College of Engineering, Davangere under Visvesvaraya Technological University, Belagavi. (**Completed Comprehensive Viva Voce**).
- **M.Tech.** (2014), Machine Design, University B.D.T College of Engineering, Davangere. (**FCD**).
- **B.E.** (2011), Mechanical Engineering, Sir M. Visvesvaraya Institute of Technology Bangalore. (**FCD**).

Working Experience Details

- Asst. Professor, Dept. of Mechanical Engineering, BNMIT, Bangalore, India, (From 07th July 2016 – Till date).
- Asst. Professor, Dept. of Mechanical Engineering, SVIT, Bangalore, India, (From 23rd July 2014 – 18th June 2016).
- Lecturer, Dept. of Mechanical Engineering, Dr. TTIT, KGF, India, (From 23rd July 2011 – 31st October 2012).

Subjects taught

Topics Taught: Mechanical Vibrations, Dynamics & Kinematics of Machines, Tribology, Experimental Stress Analysis, Material Science, Product Life Cycle Management, Mechanical Measurements and Metrology, Control Engineering, Manufacturing Process-III, Elements of Mechanical Engineering, Computer Aided Engineering Drawing, Management and Entrepreneurship.

Research Experience Details:

M. Tech:

Optimized helicopter tail rotor drive shaft to assess damage tolerance capability of aluminium and composite shaft subjected to ballistic impact by conventional and FEA analysis. Maximum torsional capability was determined for different boundary conditions using ANSYS.

Ph.D.

Area: Fatigue of Materials

It is proposed to analyze the effect of mean stress on the S/N behavior of materials under consideration for on-axis and off axis loading.

Guide: Dr. C.S Venkatesha, Professor. Dept. of Mechanical Engineering.

Research Centre: University B.D.T College of Engineering.

Research Projects.

Ongoing

Title: Development of Bio Degradable Diaper for Hygiene Applications.

Funding Agency: Karnataka State Council for Science and Technology (KSCST)

Amount: Rs.7000/-

Academic Positions and other Responsibilities (Institute Level):

1. **Coordinator**, T-5 & TW-5, BNMIT (2017-18 -Till Date)
2. **Chief NSS Coordinator**, SVIT, Bangalore.

Experimental/ Computational/ Any other Skills:

A. Optimization Technique

- Design of Experiments.

Softwares handled:

- AutoCAD, Pro-E. Solid Edge.
- Hypermesh, Nastran, LS-Dyna, Ansys, Minitab and MATLAB.

Awards:

- Awarded for securing 100% results in Mechanical Vibrations in SVIT. Bangalore.

Workshops /Seminars Organized:

1. Organized Entrepreneurship Awareness Camp along with ICTC, Tamilnadu.at SVIT, Bengaluru.

Research Publications:

I. International Journals

1. Experimental Investigation on Mechanical Behaviour of GFRP Countersunk Composite Bolted Joints. Hemanth Kumar C, A Periya Karupan, Arun Kumar, Abhishek. S, Shivram Mabla Gauda. International Research Journal of Engineering and Technology, June 2018, Volume 5, Issue 6, ISSN-2395- 0056.pp.2488-2496
2. Experimental Investigation on Mechanical Behaviour of GFRP Composite Bolted Joints. Hemanth Kumar C, A. Periya Karupan, Arun Kumar, Abhishek. S, Shivram Mabla Gauda. Journal of Emerging Technologies and Innovative Research, June 2018, Volume 5, Issue 6, ISSN-2349-5162.pp. 392-401.
3. Productivity Improvement of High End CNC Machines by DMAIC Methodology, Veeresh Bhusnur, Hemanth Kumar C. International Journal of Engineering Research and Advance Technologies, (IJERAT) Volume 3, Issue 2, February 2017.
4. Design and Analysis of Rigid Tow Bar for Recovery of Damaged Underground Mining Truck in International journal of Mechanical and Industrial Technology. ISSN 2348-7593. Vol. 3, No.1, September 2015.
5. Analysis of Metallic and Composite Tail Rotor Drive Shaft for Ballistic Impact in International Journal of Mechanical Engineering and Robotics Research. ISSN 2278-0149. Vol. 4, No.1, January 2015.

II. In National/International Conference Proceedings

1. Mechanical Characterization of ZA-27 Reinforced with Silicon Carbide MMC in the Proc. of Int. Conf. on Current Trends in Eng., Science and Technology, ICCTEST. Grenze ID: 02.ICCTEST.2017.1.39 © Grenze Scientific Society, January 2017.

Papers presented in International/National Conferences

National

1. Ballistic Damage Tolerance analysis of Metallic and composite Tail Rotor Drive Shaft” in National Conference on Engineering Technologies-2014.

Participation in Training courses/Seminars/Workshops

1. Successfully completed the **NPTEL Online Certification** organized by **Indian Institute of Technology (IIT) Roorkee** for the course entitled ‘**Product Design and Development**’ with a score of **96%** during Jan-Feb 2019.
2. Participated in one week “**AICTE-ISTE Induction Program for Faculty of Technical Institutions**” organized by Dept. of Electronics & Communication Engineering, A.M.C Engineering College, Bangalore from 23rd– 28th July, 2018.
3. Participated FDP on “**Research Issues and Challenges in Mechanical Engineering**” organized by Dept. of Mechanical Engineering, BNMIT, Bangalore from 16th July to 20th July, 2018.
4. Participated in one-week faculty Development program on “**Recent Advancements in Materials, Energy & Design Engineering**” organized by Dept. of Mechanical Engineering, BNMIT, Bangalore from 16th – 21st January, 2017.
5. Participated in one-week faculty Development program on “**Research Avenues in Thermal, Design & Manufacturing Engineering**” organized by Dept. of Mechanical Engineering, BNMIT, Bangalore from 11th -16th July, 2016.
6. Participated in one day Workshop on “**COMSOL MULTIPHYSICS for Engineering Applications**” on 16thDecember, 2015 held at R V College of Engineering, Bangalore.
7. Participated in one week Faculty development programme on “**ENTREPRENEURSHIP**” from 14th-18th, July, 2015 held at Sai Vidya Institute of Technology, Bangalore.
8. Participated in Engineering Faculty Empowerment Programme on “**Formulation of Research Proposal under DST/DRDO/ISRO/DIETY Schemes**” on 30th June, 2015 held at MS Engineering College, Bangalore.
9. Participated in a Two day workshop on “**SCI LAB Programming**” organized by Department of Mathematics, B.M.S.I.T. Bangalore from 14th – 16thDecember 2014.

Personal Details:

- **Date of Birth:** 07 - 06 –1989
- **Hobbies:** Swimming
- **Marital Status:** Married