


Faculty Profile

Name of Faculty	Karthik S. R.	
Department	Mechanical Engineering	
Qualification	B.E., M.Tech (Ph.D.)	
Designation	Assistant Professor	
Area of specialization	Thermal Power Engineering	
Date of Joining BNMIT	07.07.2016	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
e-mail	srkarthik.vinu@gmail.com , karthiksr@bnmit.in	
No. of years of Experience	Teaching: 6.5 years	

Academic Qualifications

- Pursuing Doctor of Philosophy (Ph.D.) in Visvesvaraya Technological University, Belagavi.
- M.Tech (2012), Thermal Power Engineering, BIET Davanagere, VTU Belagavi (FCD/ 78%).
- B.E. (2009), Mechanical Engineering, MCE Hassan, VTU Belagavi (FCD/ 71%).

Working Experience Details

- **B.N.M Institute of Technology, Bangalore**
Assistant Professor, Department of Mechanical Engineering, 07th July 2016 - till date
- **Mangalore Institute of Technology and Engineering, Moodbidri**
Assistant Professor, Department of Mechanical Engineering, 30th July 2012 - 21th May 2016.

Subjects taught

Thermodynamics, Fluid Mechanics, Turbomachinery, Energy Engineering, Heat Transfer, Automotive Engineering.

Ph.D.

(Pursuing)

Title : Effects of ultrasonic vibrations on natural convection heat transfer inside enclosures

Guide : Dr. Mukesh Patil, Professor & HoD, Department of Mechanical Engineering, BNMIT, Bengaluru.

Research Center: Department of Mechanical Engineering, BNMIT, Bengaluru

University: VTU, Belagavi

The use of ultrasonic waves for heat transfer enhancement demands considerable attention since the applications for the same encompass a wide spectrum of areas including but not limited to acoustic streaming driven cooling of blood vessels, thermoacoustic refrigeration, processing of olive oil, etc. Most of these applications employ natural convection heat transfer. The proposed work is focused towards

studies into effects of ultrasonic vibrations on natural convection heat transfer through numerical simulations and the development of an experimental setup for validation and optimization of results.

Professional Memberships

- Life Member, Indian Society for Heat and Mass Transfer (ISHMT), Membership No. 954

Research Publications

In National/International Conference Proceedings

- Combined Natural Convection and Surface Radiation Inside Vented Triangular Enclosure – An Experimental Study Rahul Raj, K. C. Pradyumna, B. R. Rakshith, R. B. Nithin, S. R. Karthik, MATEC Web Conf. 144 04019 (2018), DOI: 10.1051/mateconf/201714404019.

Participation in Training courses/Seminars/Workshops

1. Two day National workshop on Nano Science and Technology, MITE, Moodbidri, 18th and 19th October 2013.
2. VTU VGST sponsored four day FDP on Practical Aspects of CFD in application to Heat transfer and Fluid flow, CiTech , Bangalore, 19th and 22nd February 2014.
3. VTU VGST sponsored four day FDP on Recent Developments in Alternate fuels and IC engines, MITE, Moodbidri ,15th and 18th May 2014.
4. VTU-VGST sponsored five day FDP on Recent Developments in CIM and Automation, MITE, Moodbidri, 8th and 12th June 2015.
5. FDP on Research Avenues in Thermal Design And Manufacturing Engineering by Dept. of Mechanical Engineering, BNMIT, Bengaluru from 11th to 16th July 2016.
6. InternationalConferenceCWF-16, Cities in Transition, Palace grounds, Bengaluru, 28th to 30th November 2016.
7. FDP on Recent Advancements in Mechanical Engineering by Dept. of Mechanical Engineering, BNMIT, Bengaluru from 16th to 21st January 2017.
8. FDP on Emerging Research Areas and Trends in Mechanical Engineering by Dept. of Mechanical Engineering, BNMIT, Bengaluru from 31st July to 5th August 2017.
9. International workshop on Thermal Design and Management of Multi-Scale Electronic Systems, PMR Lab, PESU, Bengaluru,19th and 20th December 2017.
10. FDP on Research Issues and Challenges in Mechanical Engineering by Dept. of Mechanical Engineering, BNMIT, Bengaluru from 16th July to 20th July 2018.

Personal Details

- Date of Birth : 06th April 1988
- Sex : Male