



Name : Dr.RAVIKUMAR R N
Designation: ASSOCIATE PROFESSOR
Qualification: Ph.D
Email-id: (official): rnravi.mech@bmsce.ac.in
Experience: 20 years
Teaching experience: 19
Date of Joining to BMSCE:18/03/2003

Research Interests: Foil bearing, Vibrations, Condition Monitoring

About Your self

Paragraph – To be a part of a reputed organization with a highly motivated work culture, that is professionally satisfying and promises bright growth prospects and to deliver to the best of my knowledge to the organization.

Presently handling courses for both undergraduates and postgraduates.

Guiding PG student

Interested in Research and Development leading to implementable product in an industry

Education:

Doctoral Research: Design

Masters: Maintenance Engineering

Bachelors: Mechanical Engineering

Personal web site/page if any then mention the Webpage link

[Researchgate/Ravikumar Rattehalli Ningachar](#)

Selected Publications

Publications in Journals

1. Dr.Rathanraj K J, Ravikumar R N , “Review A Research trends in Air foil thrust bearings used in micro turbines and aircraft machines” International Journal of Emerging trends in Engineering and Development , 2011; Issue1, Vol. 2 ,p 13-24.
2. Ravikumar, R. N., Rathanraj, K. J., &Arunkumar, V. (2015). Experimental studies on Air foil thrust bearing load capabilities considering the effect of foil configuration, *Applied Mechanics and Materials Vols. 813-814 (2015) pp 1007-1011*© (2015) *Trans Tech Publications, Switzerland*
3. Ravikumar.R.N.,Rathanraj.K.J., ArunKumar. V (2016). ScienceDirect “Comparative Experimental analysis of Load carrying capability of Air foil thrust bearing for different configuration of foil assembly” .Procedia Technology (2016).Published by Elsevier Ltd.
4. “ Enhancing the load carrying capability of **Airfoil thrust bearing** using different configuration of foil arrangements” Accepted for publication in “Journal of Mechanical engineering Research and

Development” 2019

5. The Mechanical Properties and Microstructure Behavior of Aluminium Alloys Subjected to Shock Waves, Accepted for publication in Elsevier Article
6. Study Of Dry Sliding Wear Behaviour Of Eutectic Aluminium-Silicon Alloy Solidified Under The Influence Of Mechanical Mold Vibration, JOURNAL OF CRITICAL REVIEWS, ISSN- 2394-5125 VOL 7, ISSUE 14, 2020
7. Experimental Studies on Performance of **Air Foil Thrust Bearing** Load Carrying Capabilities Considering Different Foil Materials., Accepted for publication AIP Journal 2021.
8. Dynamic stiffness Evaluation of Inter-shaft Squeeze film Damper (ISSFD) rings. Submitted to International journal of Engineering Materials and Manufacturing

National and International Conference

1. **Ravikumar R N, Rathanraj K J & Arun Kumar V** “**Experimental studies on Air foil thrust bearing load capabilities**” presented in National Symposium of Rotor Dynamics, NSRD 2014 to be held at Dr.AIT, Bangalore during 12th to 14th February 2014
2. Ravikumar R N, Rathanraj K J and Arun Kumar V “**Experimental studies on Air foil thrust bearing load capabilities considering the effect of foil configuration**”, presented International Conference on Mechanical and Manufacturing Engineering (ICMME 2015) held at Sri Chandrasekharendra Saraswathi Viswa Mahavidyala, Enathur, Kanchipuram – 631561. Tamilnadu, India, dated 2nd - 3rd April 2015.
3. Ravikumar R N, Rathanraj K J and Arun Kumar V “**PERFORMANCE STUDIES OF CASCADED AIR FOIL THRUST BEARINGS**” Presented in International conference on Tribology, TURKEYTRIB’15, held at **Yıldız Technical University, İstanbul, TURKEY**, from 7-9 October 2015.
4. Ravikumar R N, Rathanraj K J and Arun Kumar V “**Comparative Experimental analysis of Load carrying capability of Air foil thrust bearing for different configuration of foil assembly**”, Presented in the International conference on Recent Advancements and Effectual Researches in Engineering,

	<p>Science & Technology (RAEREST 2016) held at ST.JOSEPH'S COLLEGE OF ENGINEERING & TECHNOLOGY, PALA, Kerala, during 22-23 April 2016</p> <p>5. The mechanical properties and microstructure behaviour of Aluminium alloys subjected to shock waves, International Conference on Advanced trends in Mechanical& Aerospace Engineering (ATM –2019) , during 07- 11 -2019 to 09-11-2019. Dayananda Sagar University, Bangalore.</p> <p>6. Experimental studies on Performance of Air foil thrust bearing load capabilities considering different foil materials” at Virtual International Conference on Advances in Mechanical Engineering Sciences & Management (ICAMESM-2020), from 7th to9th of December 2020, Dayananda Sagar College of Engineering, Bangalore.</p> <p><u>Patents:</u></p> <p>1. Cascaded Air Foil thrust Bearing ,Patent Application number 3663/CHE/2015, Date: 17/07/2015, PATENT OFFICE,INTELLECTUAL PROPERTY BUILDING, G.S.T. Road, Guindy, Chennai-600032,Tel No. (091)(044) 22502081-84 Fax No. 04422502066,E-mail: chennai-patent@nic.in,Web Site: www.ipindia.gov.in</p>
	<p>Courses Handled/List</p> <ol style="list-style-type: none"> 1.Mechanical Vibrations 2.Tribology and Bearing design 3.Experimental Mechanics 4.Auotmotive Engineering 5.Mechatronics 6.Non Destructive Testing 7.Management and Entrepreneurship 8.Non-Conventional Energy sources 9.Operations Management 10.Statistical Quality control

	Additional Responsibilities: Member DAC Mechanical Department, Member Board of Studies, Mechanical Department, Member Board of exam, Mechanical Department, Coordinator Examination allotment, Project Coordinator. In charge 3DPLM laboratory coordinator for Graduation day
	Other Information: Projects Undertaken: AICTE funded project Rs.12 lakhs as a Co- investigators