

Faculty Profile



Faculty Photo

Dr. Sourabha H, is an accomplished academic and researcher specializing in composite materials, with over two decades of experience in academia, research, and industry. He currently serves as an Assistant Professor in the Department of Mechanical Engineering at R.V. College of Engineering, Bangalore, where he has been teaching and guiding students since 2012. His primary research interests lie in advanced composite materials, sandwich structures, vibration and frequency analysis, particularly in applications related to aerospace engineering.

Dr. Sourabha H, holds a Ph.D. in Mechanical Engineering from Visvesvaraya Technological University (VTU), where his research focused on the dynamic behavior of multilayered composite and foam sandwich structures. He also holds an M.Tech in Machine Design from VTU and a B.E. in Industrial Production from Kuvempu University. His academic journey has been complemented by significant research collaborations with ISRO, where he worked on advanced aerospace materials as both a Project Associate and Apprentice Trainee.

In addition to his academic accomplishments, Dr. Sourabha H brings rich industrial experience as a Stress Engineer in renowned aerospace and engineering firms such as Magellan Aerospace (United Kingdom), Fairtech Engineering, and Satyam Computers. This experience has honed his expertise in stress analysis, hand calculations, and structural evaluation of aerospace components.

He has authored several peer-reviewed journal articles on topics including modal damping, natural frequencies of composite panels, and adhesive bonding behavior. His publications contribute to the advancement of composite material applications in aerospace and structural engineering. Dr. Sourabha H continues to combine his academic rigor with hands-on engineering experience to mentor students, conduct funded research, and contribute meaningfully to the field of mechanical and aerospace engineering. Dr. Sourabha H is guiding 4 PhD students has successfully guided and completed one PhD under his guidance.

Personal Information

- **Name:** Dr. Sourabha Havaladar
- **Designation:** Sr.Assistant Professor
- **Department:** MECHANICAL
- **Email:** sourabhash@rvce.edu.in
- **Phone:** 9481721298

Google Scholar : <https://scholar.google.co.in/citations?user=7ta8rYYAAAAJ&hl=en>

Domain of Expertise Composite materials

Research Focus

- **Primary Area:** Composite Materials
- **Allied Areas:** Advanced Composite materials, Sandwich structures, Vibration, Frequency Analysis, Aerospace Materials, Aerospace related Hand calculations

Academic Qualifications

- **Ph.D.:** Mechanical VTU University 2014
- **M.Tech:** Machine Design VTU University 2004
- **B.E: Industrial Production** Kuvempu 2001

Professional Experience

Experience			
S.No	College	Job Title	Duration (From- To)
1.	R V College of Engineering Bangalore	Assistant Professor	Jan 2012 till Date
2.	PES Institute Of Technology Bangalore	Assistant Professor	August 2009- January 2012
3.	SDM Dharwad	Lecturer	August 2004- December 2004

RESEARCH EXPERIENCE			
S.No	RESEARCH Organization	Job Title	Duration (From- To)

1.	ISRO	M.Tech Project Associate	August 2003- August 2004
2.	ISRO at SHRI HARI KOTA	Apprenticeship Trainee	August 2009- January 2012
3.	SDM Dharwad	Lecturer	January 2002 – August 2002
INDUSTRIAL EXPERIENCE			
S.No	Industry	Job Title	Duration (From- To)
1.	Magellan Aerospace United Kingdom, BRISTOL	Stress Engineer	November 2008 - April 2009
2.	Fairtech Engineering	Stress Engineer	July 2007 – July 2009
3.	Satyam Computers	Stress Engineer	December 2004- June 2007

Publications & Patents

Journal Publications

- 1) “Estimation of modal damping ratio from specific shear modulus for monolithic materials and hybrid cored multilayer composites” Science Direct Procedia, Volume 10, 2015, Pages 124-138
- 2) “Effects of Angle Ply Orientation on Dynamic Characteristics of Composite Laminates”, IJAEA: An International Journal of Advanced Engineering & Applications Year 2011, Volume-2, June Issue, Print ISSN: 0975 – 7783 Online ISSN: 0975 – 7791.
- 3) “Evaluation of Dynamic Parameters of Adhesively Bonded Steel and Aluminium Plates”, ARPN Journal of Engineering and Applied Sciences 2012.
- 4) “Effect of Cell Size on the Fundamental Natural Frequency of FRP Honeycomb Sandwich Panels”, Journal of Mineral and Materials Characterization and Engineering 2012.
- 5) “Experimental Investigation of Dynamic Characteristics of Multilayer PU Foam Sandwich Panels”, Journal of Mineral and Materials Characterization and Engineering 2014.
- 6) “Design and development of Fixture for Installing Car Front Seat”, International journal of Engineering Research & Technology 2015/3/24 Volume 4, Issue 3
- 7) “Estimation of modal damping ratio from specific shear modulus for monolithic materials and hybrid cored multilayer composites”, Science Direct, Procedia Materials Science 10 (2015) 124 – 138.

International Conference:

CNT International Conference Hyderabad- 2014. “Estimation of modal damping”.

Books/Book Chapters

Patents

R & D Grants & Consultancy Projects

1. Principal Investigator in “Investigation of Dynamic Characteristics of Multi- layered Sandwich Panels”, AICTE New Delhi, Rs 15.33 Lakhs, 3 Years.
2. Principal Investigator in "Mining of Under Water Vehicle", KSCST, IISC, Rs 10000

Completed Research Projects

1. Principal Investigator in “Investigation of Dynamic Characteristics of Multi- layered Sandwich Panels”, AICTE New Delhi, Rs 15.33 Lakhs, 3 Years.

Ongoing & Completed Consultancy Projects

Professional Memberships

Indian Welding Society - LMIWS

Awards & Recognitions

Student Supervision

- **Ph.D. Candidates:** [4] ([1] Graduated)
- **M.Tech/M.Sc. Students:** [5]
- **Undergraduate Research Mentees:** [8]

Professional Roles

- **Editorial Board:**
- **Chair/Committee Member:**
- **Industry Advisor:**

Teaching

Core Courses: [Current semester]

ME123ATE Fundamentals of Mechanical Engineering

HS248AT Universal Human Values

HS261TA Principles of Management and Economics

Advanced/Lab Courses:

Professional Roles

Responsibilities

- **Academic:** [SAP Coordinator/ First year Skill Lab Coordinator/ YANTRA Coordinator]
- **Administrative:** [Disciplinary Committee]

External Connect