

## Dr. MANJUNATH C.T.

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### Education

	Degree	Year	Institute	Specialization
1	PhD	2020	IIT Madras, Chennai	Machine Design, Non-Destructive Evaluation
2	M.Tech	2008	University of Mysore, Mysore	Computer Cognition Technology
3	B.E.	2002	VTU, Belgaum	Mechanical Engineering

### Professional Experience

	Date (from-to)	Designation	Organization
1	Jan 2011 to <i>til date</i>	Assistant Professor	Siddaganga Institute of Technology, Tumkur
2	Sep 2009 to Dec 2010	Lecturer	Siddaganga Institute of Technology, Tumkur
3	July 2004 to Aug 2006	Engineer	Bharat Forge Limited, Pune

### Positions held

1. CAD, CAM & CIM Lab coordinator
2. Department Board of Studies coordinator
3. Department Timetable coordinator
4. NBA Criteria 3 coordinator
5. Coordinator in exam section

### Courses Taught

Undergraduate Courses

- Industrial Robotics
- Robotics & Automation
- Industry 4.0
- Non-Destructive testing
- Research Methodology & IPR
- Mechanical Vibrations
- Finite Element Methods
- Strength of Materials
- Computational Methods in Engineering

#### Research Areas

- Non-Destructive Testing
- Elastic Metamaterials
- Ultrasonic Guided Waves
- Super-resolution Imaging

#### Sponsored Projects

##### Ongoing Projects:

1. Title: Laser Ultrasonic Inspection for Structural Integrity Evaluation of Additive Manufactured Components  
Funding Agency: SERB TARE  
Amount: Rs. 18.3 lakhs  
Duration: 3 Years  
Role: Principal Investigator

##### Completed Projects:

1. Title: Development of photopolymer-metal composites based on metallization of digital light processed (DLP) parts  
Funding Agency: AICTE, New Delhi  
Amount: Rs. 6 lakhs  
Duration: 3 years  
Role: Principal Investigator

## Publications

### Journals

- Ramesh, G.V., Kushal, B., Charan, K.N., Mohan, R.R., Manjunath, C.T., *Deformation Behaviour Analysis of Structures for Impact Loading*, Journal of Mines, Metals and Fuels, 71(12), 2023, pp. 167-171.
- MC Thippeswamy, SAR Kuchibhatla, P Rajagopal, *Concentric shell gradient index metamaterials for focusing ultrasound in bulk media*, Ultrasonics 114, 106424, 2021.
- SK Sikundalapuram Ramesh, M Chitnaduku Thippeswamy, P Rajagopal, K Balasubramaniam, *Elastic metamaterial rod for mode filtering in ultrasonic applications*, Electronics Letters 56 (19), 2020, 1024-1027.
- C T Manjunath, P Rajagopal, *Lensing in the Ultrasonic Domain using Negative Refraction Induced by Material Contrast*, Scientific reports 9 (1), 6368, 2019.

### Conference Proceedings

- S Kuchibhatla, CT Manjunath, P Rajagopal, *Focusing of elastic waves in bulk media using add-on concentric cylindrical shells*, Review of Progress in Quantitative Nondestructive Evaluation held during July 14-19, 2019, Portland, USA.
- CT Manjunath, P Rajagopal, *Topographic metamaterials for ultrasonic non-destructive evaluation*, 2017 Progress In Electromagnetics Research Symposium - Spring (PIERS) held during 22-25 May 2017, St. Petersburg, Russia.

## Patents

- Manjunath C.T., Prabhu Rajagopal, BIMETALLIC LENSES FOR FOCUSING ULTRASOUND, Patent No. – 548806, Date of Grant- 27/08/2024