

Faculty Profile

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About me:

I am Dr. Prithvi C, an Assistant Professor in the Department of Mechanical Engineering at The National Institute of Engineering, Mysuru, with over 17 years of teaching experience in engineering education. I completed my Ph.D. in Structural Vibration from JSS Science and Technology University, and my academic interests include Machine Design, Structural Vibrations, Finite Element Method, Computer Aided Engineering Drawing, and modern manufacturing technologies. I am actively involved in teaching, research, and mentoring undergraduate and postgraduate students, and I contribute to academic administration through roles such as Program coordinator for Machine Design, NBA coordinator, laboratory In charge, and curriculum-related activities. I have published research papers in reputed journals and conferences and regularly participate in faculty development programmes and online certification courses, reflecting my commitment to continuous learning, innovative teaching, and professional development.

Qualification:

BE: Mechanical Engineering(2006), VTU.

ME: Machine Design (2009), UVCE,BU.

Phd: Mechanical Vibration (2022), JSS STU.

Courses Taught:

UG: Computer Aided Engineering Drawing, Introduction to Mechanical Engineering, Innovation and Design thinking, Engineering Mechanics (Statics and Dynamics), Design of Machine Elements-I and II, Tribology and Bearing Design, Finite Element Method, Mechanics of Machines and Mechanisms. Additive Manufacturing, Engineering Photography.

PG: Theory of Elasticity, Waste to Energy, Fracture Mechanics, Fatigue Analysis, Finite Element Analysis, Design for Manufacture and Assembly.

Publications:

◆ 2025

Book Chapters

1. Praveenkumar S., Sarkar R., Kanwa P., Chandel, and **C. Prithvi**, “Innovative Leadership in College-Based Higher Education Practices,” in *Digital Leadership for Sustainable Higher Education*, June 2025, DOI: 10.4018/979-8-3693-9989-7.ch004.
2. Shikalgar N., Moolchandani J., Dhamija D., and **C. Prithvi**, “Microrobot for Lump Permeation with Artificial Intelligence and Attractive Torque Method,” in *Hybrid and Advanced Technologies*, Jan. 2025, DOI: 10.1201/9781003559139-20.

◆ 2023

Journal / Conference Publication

3. Ranjith K., **C. Prithvi**, Mathivanan R., and Gowda R., “Experimental and Numerical Investigation on Damage Resistance Characteristics of Woven E-Glass/Epoxy Composite Laminates Subjected to Drop-Weight Impacts,” *Engineering Proceedings*, Multidisciplinary Digital Publishing Institute, 2023.

◆ 2022

Book Chapter

4. **C. Prithvi**, Policepatil S. C., and Ramachandracharya S., “Dynamic Analysis of Electric Train Bogie Using MATLAB Simulink,” in *Recent Advances in Hybrid and Electric Automotive Technologies: Select Proceedings of HEAT 2021*, Springer Nature Singapore, 2022.

◆ 2021

Book Chapter

5. **C. Prithvi**, Srinidhi R., and Hebbar A. K., “Vibration Analysis of Railway Wagon Suspension System for Improved Ride Quality Using MATLAB Simulink,” in *Operations Management and Systems Engineering: Select Proceedings of CPIE 2019*, Springer Nature Singapore, 2021.

◆ 2020

Journal Publications

6. Karthik H. S. and **C. Prithvi**, “Design and Analysis of Folding Mechanism for a Horizontal Stabilizer in a Helicopter,” *International Journal of Engineering Research & Technology (IJERT)*, vol. 9, issue 5, 2020.
7. Suresh B. S., **C. Prithvi**, and Ramachandracharya S., “Modal Analysis of FIAT Bogie of LHB Railway Coach,” *Materials Today: Proceedings*, 2020. DOI: 10.1016/j.matpr.2020.03.817.
8. Suresh B. S., **C. Prithvi**, and Ramachandracharya S., “Static Analysis of LHB Railway Coach with FIAT Bogies,” *International Journal of Research in Engineering, Science and Management*, vol. 3, issue 3, 2020.

◆ 2019

Journal / Conference Publications

9. Niranjan Y. C., **C. Prithvi**, and Sridhara B. K., “Influence of S0 Type of Addendum Modification on Sliding Performance of Spur Gears,” *IOP Conference Series: Materials Science and Engineering*, vol. 624, no. 1, 2019.
10. Hebbar A. K., **C. Prithvi**, and Ramachandracharya S., “Analytical Modeling of Railway Suspension System Using MATLAB Simulink,” *International Journal of Recent Technology and Engineering*, vol. 8, issue 1S2, pp. 164–168, 2019.

Other achievements:

- Completed the **PG Certificate Programme in 3D Printing** conducted by Indian Institute of Technology Palakkad under the QIP initiative of All India Council for Technical Education during June–December 2025.
- Dr. Prithvi Chandrashekar has been recognized as a **Certified Entrepreneurship Educator** by the **Wadhvani Foundation** on 19 March 2025. This certification acknowledges his high level of proficiency in entrepreneurship education and his ability to effectively train, inspire, and motivate innovation among higher education students. The recognition highlights his commitment to fostering entrepreneurial thinking and guiding students toward developing innovative ideas and ventures.
- Recognized as an **NPTEL Star** multiple times by NPTEL, including **Domain Scholar (2022, 2024, 2025)** and other categories such as Motivated Learner, Believer, Discipline Star, and Evangelist during 2020–2025.
- **Intellectual Property (Patents)**
 1. **Electrochemical Reactor for Efficient CO₂ Conversion into Fuel for Use in Hybrid Electric Vehicles**
 - Application No.: 202511059160
 - Date of Filing: 20/06/2025
 - Publication Date: 04/07/2025
 2. **IOT-Enabled Dual-Arm Robotic System for Enhanced Precision and Real-Time Monitoring in Endoscopic Cardiac Surgeries**
 - Application No.: 202441089432
 - Date of Filing: 19/11/2024
 - Publication Date: 29/11/2024
 3. **Automated Hanging Cable Rescue with Real-Time GPS Monitoring and Alerts for Landslide Areas**
 - Application No.: 202441091501
 - Date of Filing: 24/11/2024
 - Publication Date: 29/11/2024
 4. **Adaptive Resource Provisioning in Cloud Environments Using Data Mining and Machine Learning**
 - Application No.: 202441036588
 - Date of Filing: 09/05/2024
 - Publication Date: 17/05/2024
