

Dr. Pravin Laxman Jadhav

Ph.D. (Mechanical Engineering) | Assistant Professor

Specialization: Refrigeration & Air-Conditioning • Thermal Engineering • CO₂ Transcritical Systems

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☎ +91 99600 97294
📍 Satara, Maharashtra, India
📅 A+ve | DOB: 19 May 1980

CAREER OBJECTIVE

To apply advanced Mechanical Engineering expertise in Refrigeration & Air-Conditioning, Thermal Systems and CO₂ Transcritical technology, combined with strong administrative and social skills, to drive institutional excellence and contribute meaningfully to society.

ACADEMIC QUALIFICATIONS

Ph.D. (Mechanical Engineering) — Feb 2021
Dr. Babasaheb Ambedkar Technological University, Lonere
Thesis: CO₂ Transcritical System: Studies on Capillary Tube
M.E. (Heat Power) — Sept 2009 | 63.09%
Shivaji University, Kolhapur
B.E. (Mechanical) — May 2002 | 63.07%
Shivaji University, Kolhapur
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PATENTS

- ▶ Granted (21.06.2024): Comprehensive Soil Treatment & Biocontrol Composition
- ▶ Published (30.08.2024): Electric Power Generation from Biomass Gasification – System Efficiency & Optimization

PROFESSIONAL EXPERIENCE

Assistant Professor | Jan 2006 – Present
Karmaveer Bhaurao Patil College of Engineering, Satara
Lecturer | Jan 2004 – Dec 2005
KBP College of Engineering & Polytechnic, Satara

KEY ADMINISTRATIVE ROLES

- ▶ Head of Department – Mechanical Engg. (Aug 2023 – Aug 2024)
- ▶ Coordinator – Academic Monitoring Committee (2026-27)
- ▶ NBA Coordinator – Mechanical Dept. (2021-23)
- ▶ NAAC Coordinator – Mechanical Dept. (2019-21)
- ▶ ISO Coordinator (2024-25) | IQAC Member (2023-24)
- ▶ NSS Institute Coordinator (2012-18)
- ▶ Director – Centralized Assessment Process (DBATU 2022)
- ▶ Student Activity Chair, ISHRAE (2022-23)
- ▶ Working Committee Member – ISHRAE Satara Subchapter

RESEARCH, PUBLICATIONS & SCHOLARLY IMPACT

- 25 International Journal Papers in Scopus SCI Indexed Key Published Paper Journals : ASME J. Thermal Sci. Eng. Appl. • Journal of Thermal Analysis & Calorimetry • Int. J. Ambient Energy • Int. J. Air-Conditioning & Refrigeration • Elsevier Materials Today • Springer • World Scientific • IOP • Inderscience
- 3 Book Chapters (Springer) • 28 Conference paper Presentations • Ph.D. Supervisor (DBATU)

AWARDS & RECOGNITION

- ▶ ISHRAE Certified Engineering Professional (ICEP)
- ▶ Young Investigator Award – ICMIE Goa 2012
- ▶ Best Paper Award – ICMET 2019, Galgotias
- ▶ National Design Competition – 2nd Prize (₹50,000) – Hybrid Wind Tree 2023
- ▶ Session Chair & Keynote – NCRTET 2022, ICAME 2022
- ▶ Judge – Zonal Avishkar 2024
- ▶ Reviewer: Elsevier (Thermal Sci. Eng. Progress, Measurement), Journal of Thermal Engineering & others

PROFESSIONAL AFFILIATIONS

- ▶ ISTE – Life Member (LM-45172)
- ▶ Institution of Engineers (India) – AM 098839-4
- ▶ ISHRAE – Member (22515)
- ▶ ISHMT – Life Member (998)

CONSULTANCY

- ▶ Gas Chlorinator Testing – Ghorpade Industries
- ▶ Oxygen Tube Testing – Maharashtra Govt. (COVID)
- ▶ Gas Stove, RO Purifier & Solar Water Testing – Z.P. Satara

SOFTWARE & SKILLS

- ▶ Programming: C, C++, MATLAB, FORTRAN
- ▶ CAD: AutoCAD, CATIA V5
- ▶ Analysis: ANSYS
- ▶ Documentation: LaTeX, MS Office

PROJECT HIGHLIGHTS

- ▶ Multi-spindle Drilling Head (75% manpower reduction)
- ▶ Six Sigma – Mutta Foundry
- ▶ Varnish Machine & Rolling Cutter Attachments
- ▶ Guided 3 M.E./M.Tech. students

SOCIAL CONTRIBUTION & EXTRA-CURRICULAR

Regular Blood Donor (50+ times) • Body & Eye Donation Pledge • Marathon Runner (12+ Half Marathons) • Fundraised ₹1.31 Lakh for Alumni Kidney Transplant • Active in NSS, Tree Plantation, Organ Donation Awareness, Swachh Bharat & Traffic Safety Campaigns • Vipassana Meditation Practitioner

I hereby declare that the information furnished above is true and correct to the best of my knowledge.

– Dr. Pravin Laxman Jadhav –