

Faculty Profile



1. Name of Faculty: [Mr. Rustum S. Dhalait](#)
2. Designation: [Assistant Professor.](#)
3. Department Name: [Mechanical Engineering](#)
4. Qualification: [B.E., M. Tech, Ph.D. \(Pursuing\)](#)
5. Degree/Diploma: [Degree, PG](#)
6. Specialization: [Heat Power Engineering](#)
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9. Bio sketch:

Mr. Rustum Sikandar Dhalait is an Assistant Professor in the Department of Mechanical Engineering at Walchand College of Engineering, Sangli. He holds a Bachelor's degree in Automobile Engineering from Annasaheb Dange College of Engineering and Technology (ADCET), Ashta, and a Master's degree in Mechanical Heat Power Engineering from Walchand College of Engineering, Sangli, affiliated with Shivaji University. Currently, he is pursuing his Ph.D. from Shivaji University, Kolhapur under the AICTE – National Doctoral Fellowship (NDF) scheme.

He has over four years of teaching and research experience and has taught various undergraduate and postgraduate courses in the domain of Thermal Engineering, including Thermodynamics, Heat Transfer, Refrigeration and Air Conditioning, Turbomachines, and Power Plant Engineering. He is actively involved in teaching, research, curriculum planning, and laboratory development, with a strong focus on practical validation of fundamental engineering principles and outcome-based education.

His academic and research interests include Organic Rankine Cycle (ORC), Waste Heat Recovery, Heat Transfer Enhancement, thermal management systems, steam engineering practices, and energy system performance analysis. His doctoral research focuses on the theoretical and experimental investigation of low-temperature power cycles for waste heat recovery applications, aiming at improving system efficiency and sustainable energy utilization.

He has published 08 journal papers and 06 conference papers in reputed national and international platforms. He was awarded the Best Paper Award at the 2nd International Conference on Engineering, Technology and Management in the Digital Era (ICETMDE'20), jointly organized by Life Way Tech India and K Research Associations.

Mr. Dhalait is a professional member of Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), reflecting his active engagement in the HVAC&R domain and commitment to continuous professional development in heating, ventilation, air conditioning, and refrigeration technologies. He is dedicated to advancing sustainable thermal systems research and strengthening industry–institute interaction through technical activities, workshops, and professional collaborations.