

Faculty Profile



1. Name of Faculty: Dr. Bajirao S. Gawali
2. Designation: Professor
3. Department Name: Mechanical Engineering
4. Qualification: B.E., M.E., Ph.D.
5. Degree/Diploma: Degree, PG, PhD recognized guide
6. Specialization: Heat Power Engineering
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9. Bio sketch:

Bajirao S. Gawali is a Professor within the Mechanical Engineering Department at Walchand College of Engineering, Sangli. He holds a Bachelor's degree in Mechanical Engineering from Government College of Engineering, Karad, and a Master's degree in Mechanical Heat Power Engineering from WCE Sangli, affiliated with Shivaji University Kolhapur. He further earned his Ph.D. from IIT, Bombay. With three decades of experience in teaching within academic institutions, he has instructed a variety of courses in the field of heat power engineering, catering to both undergraduate and postgraduate students, as well as PhD scholars.

Dr. Gawali has supervised ten Ph.D. theses, with five already completed and five still in progress. Additionally, he has overseen 94 M.Tech dissertations. His academic contributions were recognized with the Best Paper Award at the 2nd International Conference on Engineering, Technology, and Management in the Digital Era (ICETMDE 2020), jointly organized by Life Way Tech India and K Research Associations.

His research interests encompass cryogenics, cold chain management, liquid desiccant cooling systems, and organic Rankine cycle, with a particular focus on pulse tube cryocoolers. In these areas, he has authored 46 journal articles and presented 88 conference papers. Dr. Gawali has also actively served as a reviewer and session chair in various international and national conferences. He has evaluated Ph.D. theses and participated as an external examiner for Ph.D. viva-voce examinations at various universities. Furthermore, he is a life member of several professional organizations, including the Indian Society for Technical Education (ISTE), the Indian Cryogenic Council (ICC), the Indian Society of Heating, Refrigeration and Air Conditioning Engineering (ISHRAE), the Indian Society for Heat and Mass Transfer (ISHMT), and the American Society of Heating, Refrigeration, and Air Conditioning Engineering (ASHRAE). In addition to his involvement in various renowned training programs, Dr. Gawali has delivered invited talks and expert lectures in Short-Term Training Programs (STTPs), Faculty Development Programs (FDPs), workshops, and training programs. He has also taken on roles such as faculty advisor and committee member at departmental, institutional, university, state, and national levels.

Throughout his career, he has assumed several key roles, including serving as the Head of the Department, Dean of Research and Development (R&D), and Dean of Quality Assurance (Q.A.). In these capacities, he has effectively managed both academic and administrative responsibilities at his institute as well as at Shivaji University. Additionally, he has been actively engaged in various important university committees and councils, holding positions such as: Member of the Academic Council, Member and Chairman of the Board of Studies in Mechanical Engineering, Member of the Research and Recognition Committee, Member of the Senate, Member of the Management Council., Member of the Budget Committee at Shivaji University, Kolhapur.

His involvement in these roles demonstrates his commitment to both the academic and administrative aspects of higher education and his contributions to the governance of Shivaji University.

Research Area: Cryogenics, Cold Chain management, Organic Rankine Cycle, Liquid Desiccant Cooling Systems