

Profile of Prof PK Bharti

Dr. Prem Kumar Bharti is Professor and Head of the Department of Mechanical Engineering in the Faculty of Engineering and Information Technology at Integral University, Lucknow. With more than 26 years of distinguished academic experience, he has made significant contributions to teaching, research, academic administration, and institutional development. He specializes in Industrial and Production Engineering, with expertise in Quality Management, Production Engineering, and Material Science. His research interests encompass Quality Management, Production and Industrial Engineering, Material Science, and Modelling and Simulation.

Throughout his academic career, Dr. Bharti has successfully supervised eight Ph.D. scholars and is currently guiding 6 (six) doctoral candidates. He has also supervised 18 (eighteen) M.Tech. dissertations, reflecting his commitment to mentoring and nurturing future researchers and professionals. His scholarly contributions include the publication of 62 (sixty-two) research papers in reputed national and international journals and conference proceedings. In addition, he has authored three books in the field of Mechanical Engineering, namely Engineering Mechanics, Introduction to Mechanical Engineering, and CAM: An Introduction. He has also played an instrumental role in establishing engineering laboratories and contributing to curriculum development within the university.

As an academic administrator, Dr. Bharti has been serving as the Head of the Department of Mechanical Engineering since 2009. He has led the department through important quality assurance initiatives, including NBA accreditation, and served as the NAAC Criteria-II In-charge during the university's successful A+ accreditation process.

He has been an active member of the Academic Council and the Board of Studies and has convened several national and international conferences. Earlier in his career, he undertook various administrative responsibilities, including those of Warden, Proctor, and Time-Table In-charge.

Dr. Bharti's innovative work is also reflected in his patent contributions, which include an Indian patent filed for the design of an Ergonomic Visual Display Terminal for the Physically Challenged, a UK Design Patent on a Quad Laser Optics Metal Additive Manufacturing Machine, and an Indian patent on a deep learning-based approach for predicting fuel consumption and maintenance costs of heavy-duty vehicles using diesel and alternative fuels. He is a professional member of The Institution of Engineers (India).

Among his notable achievements is the successful supervision of the internship of a German student under the prestigious DAAD RISE Programme, focusing on solar plant evaluation. Through his extensive experience, academic leadership, and research accomplishments, Dr. Prem Kumar Bharti continues to make valuable contributions to the advancement of mechanical engineering education and research.