

Faculty Profile



1. Name of Faculty: Dr. Aniket C. Patil.
2. Designation: Assistant Professor
3. Department Name: Mechanical Engineering
4. Qualification: B.E., M.S., Ph.D.
5. Degree/Diploma: Degree, PG
6. Specialization: Numerical Simulation of Crack Propagation, Constitutive Material Modelling, and Product Development
7. Email Id: aniket.patil_degm@walchandsangli.ac.in
8. Contact Number: +91 9860797269

9. Bio sketch:

Dr. Aniket C. Patil is a seasoned academic and researcher with over 16 years of experience in mechanical design and numerical analysis. He earned his Bachelor of Engineering (B.E.) in Mechanical Engineering from PVPIT Budhgaon, affiliated with Shivaji University, Kolhapur in 2005. He further specialized in Product Development and Industrial Design, obtaining his Master of Science (M.S.) in Mechanical Engineering from Jönköping University, Sweden in 2008.

Dr. Patil's professional journey commenced as a Design Engineer at Robert Bosch Produkte NV, Belgium, followed by his pivotal role as a Scientist-II at Northern Research Institute (NORUT) and SINTEF in Norway. From 2010 to 2022, he contributed to high-impact projects funded by the Norwegian Research Council and industry partners, which provided the foundation for his doctoral studies. In 2022, he has been awarded his Ph.D. in Structural Engineering from Luleå Tekniska Universitet, Sweden. His academic path also included a brief tenure as Assistant Professor in the Department of Aerospace Engineering at AMITY University, Maharashtra, before joining WCE, Sangli.

Dr. Patil's research expertise lies in advanced numerical simulation techniques, particularly in Nonlinear Finite Element Analysis (FEA), Cohesive Element Method (CEM), and Smooth Particle Hydrodynamics (SPH). His work has successfully modelled complex ice-structure interactions and large deformations in engineering materials. He has published several Scopus-indexed international journal articles and peer-reviewed conference papers (h-index: 5; citations: 69 as of February 2026).

In addition to his academic endeavours, Dr. Patil has demonstrated proficiency in numerous Computer-Aided Engineering (CAE) software such as LS-Dyna, ANSYS, and ABAQUS. His research interests also encompass the application of digital twin technology and the integration of industrial-scale 3D printing using Fused Deposition Modelling (FDM).