



Dr. Shashidhar L C

Associate Professor, Department of Mechanical Engineering

ABOUT

Dr. Shashidhar L. C. is an accomplished academician, researcher, and administrator with over 17 years of experience in engineering education at Dayananda Sagar University and other leading institutions in Bengaluru. He holds a Ph.D. in Mechanical Engineering, M.Tech in Machine Design, and B.E. in Mechanical Engineering from VTU, Belagavi, and a Diploma in Automobile Engineering from DTE, Karnataka.

His expertise includes Fracture Mechanics, Finite Element Methods, AI-driven Fracture and Fatigue Analysis, CAD/CAM, Generative Design, Design Automation, Robotics and Automation, Sustainable Materials and Manufacturing, and Automotive Systems.

RESEARCH FOCUS

Primary research focus is on the fracture-mechanics characterization of sustainable natural-fibre and metal-matrix composite materials for engineering applications, AI-based fracture and fatigue analysis and predictive modelling of material failure. His work integrates experimental mechanics, advanced material characterization, and artificial intelligence techniques to develop sustainable, high-performance engineering solutions. He has authored several research publications in reputed international journals and conferences, actively promotes interdisciplinary and application-oriented research, and serves as a reviewer for a number of reputed journals. He has guided Ph.D. scholars, M.Tech and B.Tech projects, fostering innovation, analytical thinking, and industry readiness among students.

LEADERSHIP & ADMINISTRATIVE

Made significant contributions to skill-based curriculum enhancement, accreditation and quality-assurance processes, industry–academia collaboration, and the development of advanced laboratory infrastructure at Dayananda Sagar University. He currently serves as Manager of the Autodesk Design & Innovation Laboratory, SPOC for the Makerspace Lab (Centre of Excellence), SPOC for six B.Voc programs, IQAC Department Head, PG Coordinator, and Member of the Board of Studies (BoS). Through these leadership roles, he actively contributes to academic quality enhancement, curriculum innovation, industry engagement, skill development, laboratory modernization, and the integration of emerging technologies into engineering education.

DIGITAL ENGINEERING & AI

A key professional contribution is the integration of **CAD/CAM, Generative Design, Design Automation, and emerging digital manufacturing technologies** into Mechanical Engineering courses and curriculum. He promotes the application of advanced CAD tools, parametric modelling, computational design, Generative Design, topology optimization, simulation, and design automation in teaching, student projects, laboratory activities, and engineering problem-solving.

He also incorporates the **NVIDIA Deep Learning Institute (NVIDIA DLI) ecosystem**, including **Generative AI and Large Language Models (LLMs)**, **Computer Vision**, and **accelerated computing**, as complementary technologies for engineering education. This integration enables students to explore the application of AI and computational technologies in engineering design, analysis, simulation, optimization, and automation.

His approach connects core Mechanical Engineering concepts with **AI-enabled design**, **CAD/CAE simulation**, **Generative Design**, **optimization**, **digital manufacturing**, **automation**, and **intelligent decision-making**, thereby promoting industry-relevant, technology-driven, and innovative engineering solutions for real-world applications.