

DAYANANDA SAGAR UNIVERSITY

Dayananda Sagar University (DSU) is a premier private university located in Bengaluru, India, dedicated to fostering excellence in education, research, and innovation. Established under the Dayananda Sagar Institutions (DSI) legacy, DSU continues to uphold a tradition of academic excellence and industry-oriented learning.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering, School of Engineering, DSU, is committed to building industry-ready competencies in design, manufacturing, and digital product development. The department actively integrates Autodesk's generative design, computational design automation, and ECAD-MCAD co-design tools into teaching and research, preparing faculty and students for the evolving landscape of AI-driven engineering design.

AUTODESK DESIGN & INNOVATION LAB

The Autodesk Design & Innovation Laboratory at DSU is a dedicated facility equipped with industry-standard CAD, generative design, and digital fabrication tools. In association with Autodesk Education, the lab supports hands-on training, research, and industry-academia collaboration in modern product development workflows.

CHIEF PATRONS

Dr. D. Hemachandra Sagar *Chancellor, DSU*

Dr. D. Premachandra Sagar *Pro Chancellor, DSU*

PATRONS

Dr. B. S. Satyanarayana *Vice Chancellor, DSU*

Prof. R. Janardhan *Pro - Vice Chancellor, DSU*

Dr. Prakash S *Pro - Vice Chancellor, DSU*

Dr. C. Puttamadappa *Registrar, DSU*

Dr. Udaya Kumar Reddy K. R *Dean - SoE, DSU*

CONVENOR & COORDINATORS

Dr. Saravana Bavan *Convenor — Professor & Chairperson, Dept. of ME, SoE, DSU*

Dr. Shashidhar L. C. *Faculty Coordinator — Asst. Professor, Dept. of ME, SoE, DSU*

Dr. Jerrin Joy Varughese *Faculty Coordinator — Asst. Professor, Dept. of ME, SoE, DSU*

FOR QUERIES

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DAYANANDA SAGAR UNIVERSITY

School of Engineering

Department of Mechanical Engineering



FACULTY DEVELOPMENT PROGRAM

ON

**Engineering Graphics, Generative Design,
Design Automation & Digital Product
Development**



20 – 25 JULY 2026

ORGANISED BY

**Department of Mechanical Engineering,
School of Engineering, Dayananda Sagar University,
Harohalli, Bengaluru South Dt. – 562 112
*in association with***

Autodesk India Limited, Bengaluru

ABOUT THE FDP

This one-week Faculty Development Program builds deep, hands-on competency among engineering educators in Autodesk Fusion's generative design, design automation through the Fusion API and Python scripting, and PCB/ECAD–MCAD co-design — equipping faculty to bring industry-grade digital product development practice into the classroom.

PROGRAM HIGHLIGHTS

- Engineering Graphics & CAD using Autodesk Fusion
- Parametric 3D Modeling & Assembly Design
- Generative Design & Optimization
- Design for Additive Manufacturing & 3D Printing
- Fusion API & Python Scripting for CAD Automation
- ECAD–MCAD Integration & Co-design
- PCB Design Fundamentals
- AI-Enabled Engineering Design Education



GENERATIVE
DESIGN



ECAD–MCAD
INTEGRATION



DESIGN
AUTOMATION



PCB DESIGN
FUNDAMENTALS

WHO SHOULD ATTEND

- Teaching faculty members of Mechanical and Other Engineering Departments
- Non-teaching / technical staff supporting CAD and design labs
- Research scholars working in design, manufacturing, aerospace and mechatronics

WHAT PARTICIPANTS WILL GAIN

- Working proficiency in Autodesk Fusion's Generative Design module — constraints, materials, loads, and optimization objectives
- Practical scripting skills using the Fusion API and Python for CAD automation and add-in development
- Exposure to computational and rule-based design systems for generating design variants
- Foundational knowledge of ECAD–MCAD co-design, schematic capture, and multilayer PCB layout and routing

Note: Assessment and Attendance is mandatory

CERTIFICATION & COLLABORATION



Certificate of
Participation
will be provided



Industry–Academia Collaboration
for Future-ready
Engineering Education

TARGET PARTICIPANTS

Teaching Faculty, Non-Teaching / Technical Staff, and Research Scholars of the Department of Mechanical Engineering and Other Engineering Departments.

REGISTRATION



Seats are limited — register early.

Link: <https://forms.gle/4bnKeRcynz5GSPJ58>