



ACTIVITY COMPLETION REPORT

Institute: Faculty of Engineering, Major S.D. Singh University, Farrukhabad

Activity: CAD/CAM Workshop

Date: 03/08/2026

Venue: Faculty of Engineering, Major S.D. Singh University, Farrukhabad

Organized by: Engineering Department

Coordinators: Dr. Anil Kumar Yadav / Mr. Vishal Singh

Objectives

- To provide students with practical knowledge of Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) technologies.
- To enhance students' technical skills in engineering design, drafting, modelling, and manufacturing applications.
- To bridge the gap between theoretical concepts and practical implementation in modern engineering practices.
- To familiarize students with the role and applications of CAD/CAM technologies in industry.
- To develop students' problem-solving, design, and technical skills through hands-on learning.
- To motivate students towards industry-oriented learning, innovation, and advanced engineering technologies.

Description of the Activity

A **CAD/CAM Workshop** was organized on **03.08.2026** by the Engineering Department, Faculty of Engineering, Major S.D. Singh University, Farrukhabad. The workshop aimed to provide students with practical exposure to modern **Computer-Aided Design (CAD)** and **Computer-Aided Manufacturing (CAM)** technologies used in engineering and manufacturing industries.

During the workshop, students were introduced to the fundamentals and applications of CAD/CAM systems, including computer-aided drafting, engineering drawing, 2D and 3D modelling, component design, and manufacturing-related applications. The sessions focused on connecting theoretical engineering concepts with practical design and manufacturing processes.

The workshop was conducted under the guidance of **Dr. Anil Kumar Yadav** and **Mr. Vishal Singh**. Students actively participated in the sessions and gained an understanding of how digital engineering tools can be used for designing, modifying, analysing, and manufacturing engineering components. Practical demonstrations and interactive discussions helped students understand the relevance of CAD/CAM technologies in real-world industrial applications.

The programme provided an effective platform for students to enhance their technical knowledge, develop design skills, and understand the importance of computer-based engineering tools in modern manufacturing and industrial practices.

Outcome of the Activity

- Students gained practical knowledge of CAD/CAM technologies and their engineering applications.
- Improved understanding of computer-aided drafting, modelling, design, and manufacturing processes.
- Enhanced technical, design, and problem-solving skills among participating students.
- Students developed a better understanding of industry-oriented engineering practices.
- The workshop helped bridge the gap between theoretical knowledge and practical application.
- Students were motivated to explore advanced engineering software and modern manufacturing technologies.

Highlights

- CAD/CAM Workshop successfully organized by the Engineering Department.
- Students received practical exposure to modern computer-aided engineering technologies.
- Interactive demonstrations and discussions enhanced students' understanding of CAD/CAM applications.
- The workshop strengthened students' technical and design capabilities.
- Students gained valuable insight into the role of CAD/CAM in modern engineering and manufacturing industries.
- The activity promoted practical learning, technical development, and industry-oriented education.

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