



Report on "Certificate program on Fusion 360 Software"

Programme Venue	Computer Center LAB
Programme Schedule	7 th October 2025 to 11 th October 2025
Programme Mode	Offline Mode
Details of Resource Person	Prof. R. M. Kshirsagar, Prof. A. P. Bawane & Prof. V. M. Gawali
Total Number of Students Participated in the Programme	71 Students
Total Number of Faculty Participated in the Programme	00
Programme Coordinator/s	Prof. R. M. Kshirsagar

Course objective:

- To familiarize student with the basics of Fusion 360 Software for 3D modeling and design.
- To enhance industry relevant CAD Skills.

Course outcomes:

- Students will be able to design, modify and analyze mechanical components.
- Students will be able to generate technical drawing and documentation suitable for manufacturing.

An academic activity titled "**Certificate program on Fusion 360 Software**" was successfully conducted by the Department of Mechanical Engineering during 7th October 2025 to 11th October 2025. The primary objective of this activity was to enhance students' understanding of the subject through practical exposure and interactive learning methods. The session was conducted under the guidance of Prof. Rohit M. Kshirsagar, who served as the course instructor for the activity. He provided detailed explanations of the concepts, demonstrated relevant techniques and ensured that students were actively involved throughout the session. His approach helped in simplifying complex topics and encouraged students to participate confidently. Also Prof. A. P. Bawane, covered static structural analysis part and Prof. V. M. Gawali, covered basics of Engineering graphics during this session.

A total of **71 students** from **2nd Year Mechanical Engineering** actively participated in the activity. The students showed great enthusiasm and interest, engaging in discussions, asking questions and taking part in hands-on learning. The interactive nature of the session created a positive learning environment and helped in strengthening their conceptual understanding.

During these session topics covered are:

- 1) Introduction to Fusion 360
- 2) Sketch Mode
- 3) Solid Part Modeling 3D
- 4) Assembly Design and Animation
- 5) Drawing Sheets
- 6) Static Structural Analysis

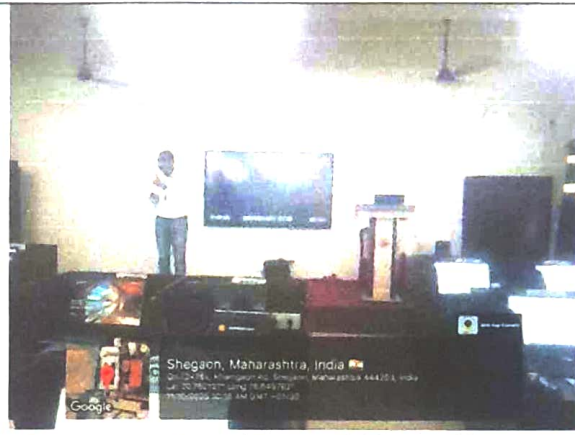


Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's, College of Engineering & Technology, Shegaon
Department of Mechanical Engineering
A.Y.: 2025-2026

Geo Tagged Photographs



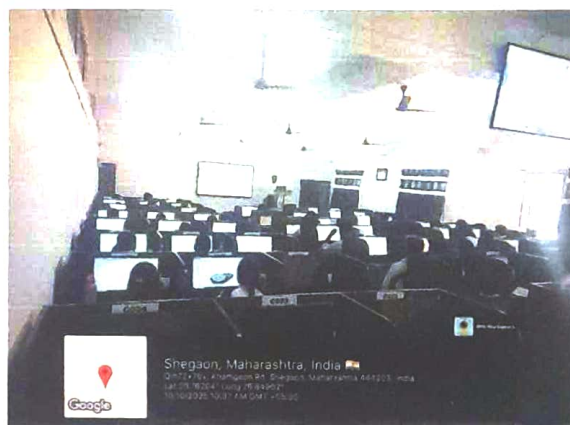
Interactive Teaching with Smart Classroom



Interactive Teaching with Smart Classroom



Student Feedback



Interactive Teaching with Smart Classroom

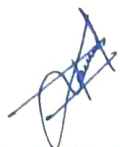


Dr. C. M. Jadhao (Principal, MGI-COET, Shegaon)



Student Appreciation


Prof. R. M. Kshirsagar
Course coordinator
Mechanical Department


Dr. R. B. Ingle
HOD (Mech. Dept.)
MGI-COET, Shegaon



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Mauli Group of Institution's,
College of Engineering & Technology, Shegaon
Department of Mechanical Engineering

Date: 03rd October 2025

NOTICE

All students of 2nd year Mechanical Engineering Department are here by informed that **Mechanical Department** is going to organize a short term course on: "**Fusion 360 Software**" a hands on certificate training program from date **07th October 2025 to 11th October 2025**. Students are encouraged to actively participate during training, we will award the best trainee after evaluation.

About the course: This course is designed to take students with no previous CAD experience to learn about Fusion 360 Software in simple step by step manner.

Features of the course:

- Hands on training.
- Certificate for successful completion of the course.

Course objective:

- To familiarize student with the basics of Fusion 360 Software for 3D modeling and design.
- To enhance industry relevant CAD Skills.

Course outcomes:

- Students will be able to design, modify and analyze mechanical components.
- Students will be able to generate technical drawing and documentation suitable for manufacturing.

Venue: Computer Center

Duration: 5 Days (6 Hours per day)

Course Instructor: Prof. R. M. Kshirsagar & Prof. A. P. Bawane

Prof. R. M. Kshirsagar

Course coordinator

Dr. R. B. Ingle

HOD, MECH

Head of Department
Mechanical Engineering
Mauli Group of Institution's
College of Engineering & Technology
Shegaon Dist. Buldhana

Dr. C. M. Jadhao

Principal

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College of Engineering &
Technology, Shegaon



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College of Engineering & Technology, Shegaon
Department of Mechanical Engineering

Title: Certificate program on Fusion 360 Software.

Academic Year: 2025-26

Course Content

Chapter No.	Topic	Duration
1	Introduction to Fusion 360	1 Hours
2	Sketch	5 Hours
3	Solid Modeling Part (3D)	6 Hours
4	Simulation	6 Hours
5	Drawing	6 Hours
6	Static Structural Analysis	6 Hours
Total:		30 Hours

Course Details:

Sketch 2D

- Making basic sketches, applying constraints
- Circle, rectangle, arc, spline and polygon
- Mirror, trim, extend, offset and fillet

Solid modeling

- Starting with 3D modeling using extrude
- Revolve feature, sweep, combine feature, loft feature, 3D fillet and chamfer
- Shell feature, press pull feature, construction geometries, adding text and emboss
- Creating patterns, measurement and inspection

Simulation

- Motion analysis of assembly components.

Drawing

- Sheet layout and generation of drawing views
- Dimensioning the drawing view, annotation

Static Structural Analysis

- Introduction to Static structural analysis
- Boundary conditions and mesh formation.
- Applying load and stress calculation

Prof. R. M. Kshirsagar

Course coordinator

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