



Activity Report on

“ISTE Approved STTP on Autodesk Fusion 360 Software”

- **Title of the Program** :- ISTE Approved STTP on Autodesk Fusion 360 Software
- **Organized by** :- Mechanical Engineering Department, MGI-COET, Shegaon
- **Date** :- 7th July 2025 to 12th July 2025
- **Time**: 10:00 AM to 5:00 PM
- **Approved by** :- Indian Society for Technical Education (ISTE)
- **Venue** :- AI Lab, MGI-COET, Shegaon, Maharashtra
- **Duration** :- 6 Days
- **Mode** :- Offline
- **Instructor**: 1) Mr. Pratik Deshmukh, (Autodesk Certified Trainer, SW System Pune)

Objective of the Training Program

The primary objective of this STTP was to enhance the technical proficiency of Third and Final year Mechanical Engineering students in modern CAD tools, specifically Autodesk Fusion 360. The training aimed to:

- Provide hands-on experience in 3D parametric modeling and product design.
- Develop skills in simulation, assembly design, and drafting using cloud-based CAD tools.
- Bridge the gap between academic knowledge and industry requirements.
- Prepare students for industry-oriented design tasks and internships.

Overview of the Program

The program was designed to introduce the participants to the core concepts of Fusion 360 software and its applications in mechanical engineering. The sessions were led by experts from both academia and industry, ensuring a rich learning experience. Throughout the Six days, participants were exposed to theoretical aspects, followed by practical sessions to work on real-life engineering problems.



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



Program Details

Inauguration Ceremony

The program was organized under ISTE Student & Faculty Chapter. The speaker of this event was Mr. Pratik Deshmukh from SW System Pune, anchoring of the program was done by Prof. Saurabh Thakur from Mechanical Engineering Department. A total of 45 students and 08 faculty members participated in the event. The inauguration session set the tone for the training program, emphasizing the importance of design tools like Fusion 360 in modern Mechanical Engineering applications.

Circular or Brochure: -



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**MAULI GROUP OF INSTITUTION'S
COLLEGE OF ENGINEERING & TECHNOLOGY
SHEGAON**

AICTE Approved Affiliated to Sant Gadge Baba Amravati University, Amravati, ISO 9001 2015 Certified



Department of Mechanical Engineering

ISTE Approved

One Week Short Term Training Program on:

"Fusion 360"

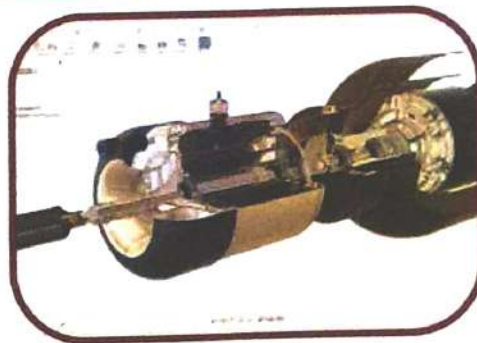
Resource Person

Mr. Pratik Deshmukh
M Tech., SW Systems Pune

Date: 07 to 12/07/2025

Time: 10 AM to 5 PM

Place: CAD Lab





Session Highlights

Day 1: Introduction & Basic Sketching

- Introduction to Fusion 360 interface and cloud features
- Account setup and data management, Navigating the user interface
- Creating 2D sketches, Constraints and dimensions

Day 2: 3D Modeling – Basic Features

- Extrude, Revolve, Sweep, Loft
- Creating solid models from sketches, Understanding parametric modelling

Day 3: Advanced Modeling & Modifications

- Pattern (circular & rectangular), Mirror, Fillet, Chamfer
- Shell and draft features, Editing features in timeline/history

Day 4: Assembly Design

- Creating components and assemblies
- Joint types and motion studies
- Exploded views

Day 5: Drafting, Rendering, and Animation

- Creating 2D drawings from 3D models, Dimensions, annotations, and title blocks
- Basic rendering tools and appearance customization
- Creating motion animations of assemblies

Day 6: Simulation, Assessment & Project Presentation

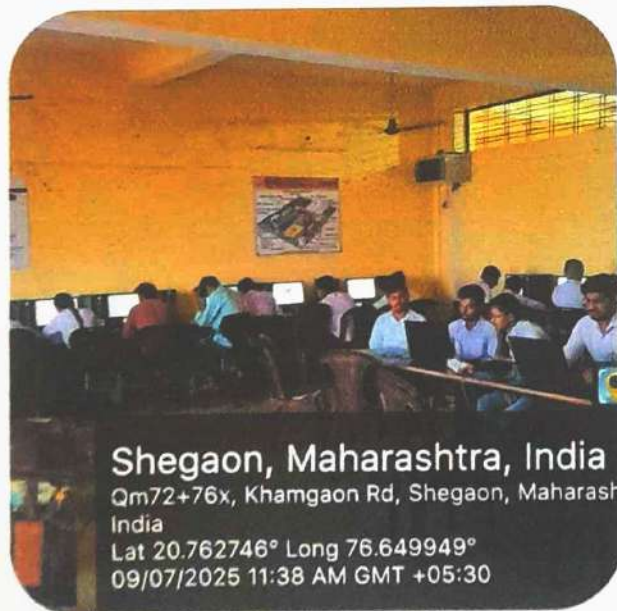
- Introduction to Simulation tools (Static Stress Analysis)
- Material assignment and boundary conditions
- Mesh generation and result interpretation, Review and final queries



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6 Days STTP Highlights





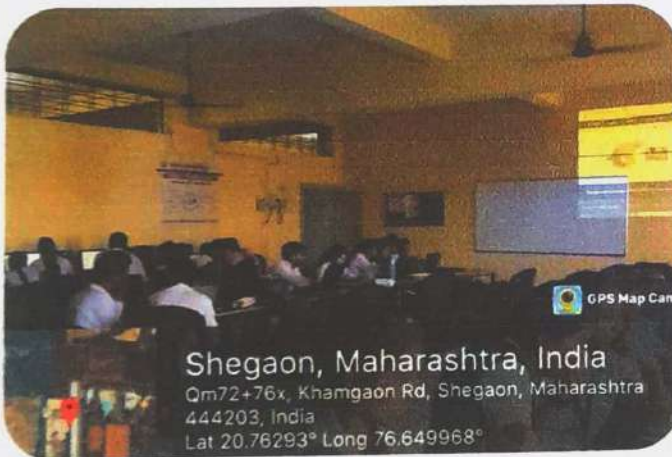
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6 Days STTP Highlights



Shegaon, Maharashtra, India
Qm72+76x, Khamgaon Rd, Shegaon, Maharashtra



Shegaon, Maharashtra, India
Qm72+76x, Khamgaon Rd, Shegaon, Maharashtra
444203, India
Lat 20.76293° Long 76.649968°



Buldhana, Maharashtra, India



Shegaon, Maharashtra, India
Qm72+76x, Khamgaon Rd, Shegaon, Maharashtra 444203



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Assessment of Participant at the end of STTP

At the end of the training, an assessment was conducted to evaluate the understanding and application of concepts learned:

- **Assessment Format:** 20 MCQ Test + Design Assignment
- **Criteria:** CAD Modeling Accuracy, Use of Tools, Completion Time
- **Evaluation:** Top performers were appreciated, and participation certificates were distributed to all attendees.

Assessment Result

Timestamp	Full Name	Class	Total score
2025/07/12 3:12:32 PM GMT+5:30	Mr.Kunal Lalit Dhanokar	Third Year	13.00 /20
2025/07/12 3:12:33 PM GMT+5:30	Aryan Dnyandeo Unhale	Final Year	14.00 /20
2025/07/12 3:12:52 PM GMT+5:30	Roshan Polakhare	Final Year	17.00 /20
2025/07/12 3:13:05 PM GMT+5:30	Atharva Nischal Kolte	Third Year	17.00 /20
2025/07/12 3:13:10 PM GMT+5:30	Radhekrishna Yogesh Joshi	Third Year	19.00 /20
2025/07/12 3:13:22 PM GMT+5:30	Shlok Vijay Kediya	Third Year	13.00 /20
2025/07/12 3:13:22 PM GMT+5:30	Ritesh Vijay Parsaiye	Final Year	9.00 /20
2025/07/12 3:13:31 PM GMT+5:30	Prajwal Bhagwan Tarale	Final Year	15.00 /20
2025/07/12 3:13:32 PM GMT+5:30	Sakshi Dayaram Kapse	Third Year	11.00 /20
2025/07/12 3:13:42 PM GMT+5:30	Pooja Rajesh Vibhute	Third Year	10.00 /20
2025/07/12 3:13:48 PM GMT+5:30	Nakul Gulabrao Nimkale	Final Year	17.00 /20
2025/07/12 3:15:09 PM GMT+5:30	Durgesh Chandrakant Ghorade	Third Year	11.00 /20
2025/07/12 3:15:13 PM GMT+5:30	Vaishnavi Santosh Kale.	Final Year	12.00 /20
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2025/07/12 3:15:24 PM GMT+5:30	Nilesh Anantrao Thakare	Final Year	16.00 /20
2025/07/12 3:16:12 PM GMT+5:30	Aditya Gopal Kangate	Final Year	19.00 /20
2025/07/12 3:16:30 PM GMT+5:30	Umesh Raju Sonone	Final Year	18.00 /20
2025/07/12 3:16:37 PM GMT+5:30	Pratik Devendra Pahurkar	Third Year	17.00 /20
2025/07/12 3:16:47 PM GMT+5:30	Gauri Manohar Raut	Third Year	7.00 /20
2025/07/12 3:16:50 PM GMT+5:30	Payal Dipak Janjulkar	Third Year	10.00 /20
2025/07/12 3:17:00 PM GMT+5:30	Minakshi Subhash Ujjainkar	Third Year	20.00 /20
2025/07/12 3:17:02 PM GMT+5:30	Om Vijay Deshmukh	Third Year	19.00 /20
2025/07/12 3:17:02 PM GMT+5:30	Sanika dnyaneshwar dhokane	Third Year	14.00 /20
2025/07/12 3:17:03 PM GMT+5:30	Rushikesh Ananda Wankhade	Final Year	17.00 /20
2025/07/12 3:17:09 PM GMT+5:30	Shyam vijay awale	Third Year	11.00 /20
2025/07/12 3:17:11 PM GMT+5:30	Ashwini govind metkar	Third Year	12.00 /20



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2025/07/12 3:17:15 PM GMT+5:30	Pratiksha Tejrao Jawarkar	Third Year	10.00 /20
2025/07/12 3:17:18 PM GMT+5:30	Bhushan Shankar Sultane	Third Year	12.00 /20
2025/07/12 3:17:23 PM GMT+5:30	JAY SANTOSH LOD	Third Year	14.00 /20
2025/07/12 3:17:23 PM GMT+5:30	Chaitanya Hariah Bore	Third Year	18.00 /20
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2025/07/12 3:17:53 PM GMT+5:30	Gayatri Gajanan shejole	Final Year	19.00 /20
2025/07/12 3:18:18 PM GMT+5:30	Akash kashiram verulkar	Third Year	17.00 /20
2025/07/12 3:18:25 PM GMT+5:30	Saurabhsingh S Thakur	Faculty	16.00 /20
2025/07/12 3:18:34 PM GMT+5:30	Eshwari Dhumale	Third Year	15.00 /20
2025/07/12 3:18:55 PM GMT+5:30	Durgesh Chandrakant Ghorade	Third Year	15.00 /20
2025/07/12 3:19:10 PM GMT+5:30	Shyam vijay awale	Third Year	18.00 /20
2025/07/12 3:19:11 PM GMT+5:30	Yogita Mamatkar	Third Year	8.00 /20



Certificate Distributed to the Participant



Program Outcomes

By the end of the 6-day program, participants gained:

- **Gain Proficiency in Fusion 360** :- Participants will acquire hands-on skills in 3D modeling, simulation, rendering, and manufacturing tools available in Fusion 360.
- **Enhance Product Design Capabilities** :- Learn to conceptualize, design, and develop mechanical components and assemblies using industry-relevant CAD practices.
- **Apply Engineering Design Principles** :- Understand and apply design principles, parametric modeling, and assembly constraints in the development of real-world engineering solutions.
- **Utilize Cloud-Based Collaboration Tools** :- Gain experience with Fusion 360's cloud-based environment to manage files, collaborate on designs, and enhance productivity.
- **Perform Static and Motion Simulation** :- Analyze and evaluate mechanical components using simulation tools such as stress analysis, motion studies, and thermal evaluation.
- **Integrate CAD/CAM for Manufacturing** :- Understand how Fusion 360 bridges design and manufacturing, enabling toolpath generation, CNC simulation, and CAM integration.
- **Encourage Innovation and Creativity** :- Inspire innovative thinking and creative problem-solving in mechanical design and product development.


Prof. A. P. Bawne
ISTE Dept. Coordinator


Dr. R. B. Ingle
HOD / ISTE Secretary

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


Dr. C. M. Jadhao
Principal
PRINCIPAL
Mauli Group of Institutions
College of Engineering &
Technology, Shegaon

