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

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)

Drive Link: https://drive.google.com/drive/folders/1jTz94iycdIyCfzJuproASDoq3jZZ2ia0?usp=drive_link

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.

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: -

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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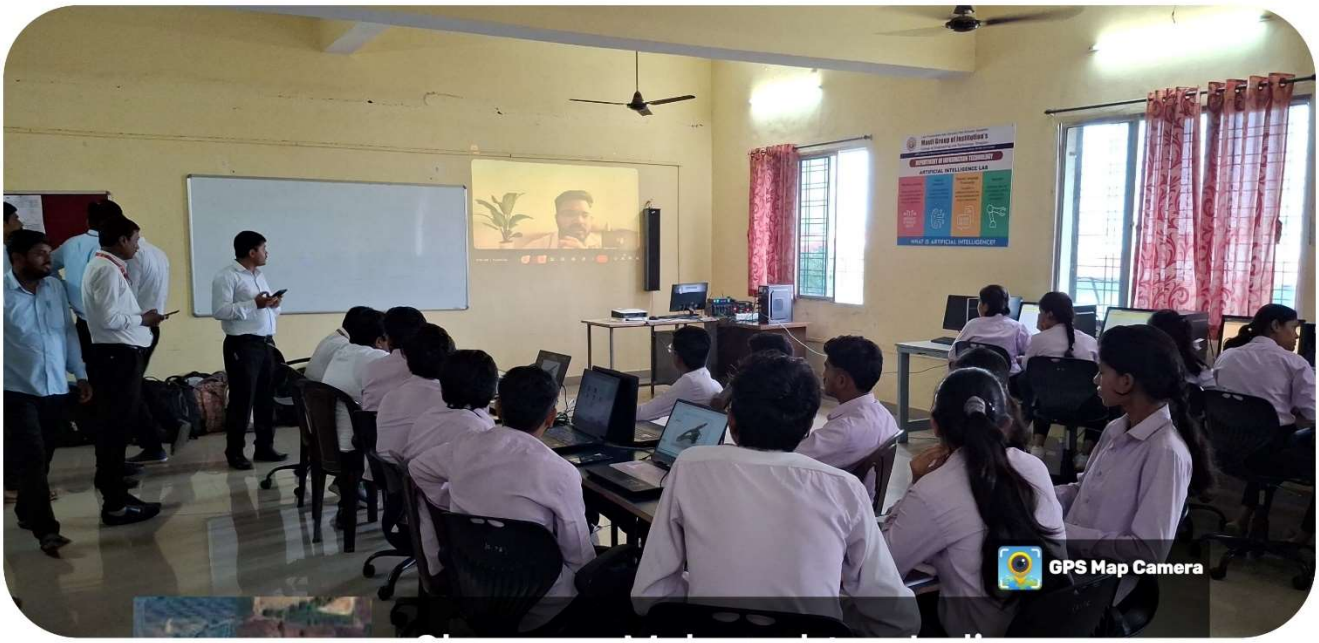
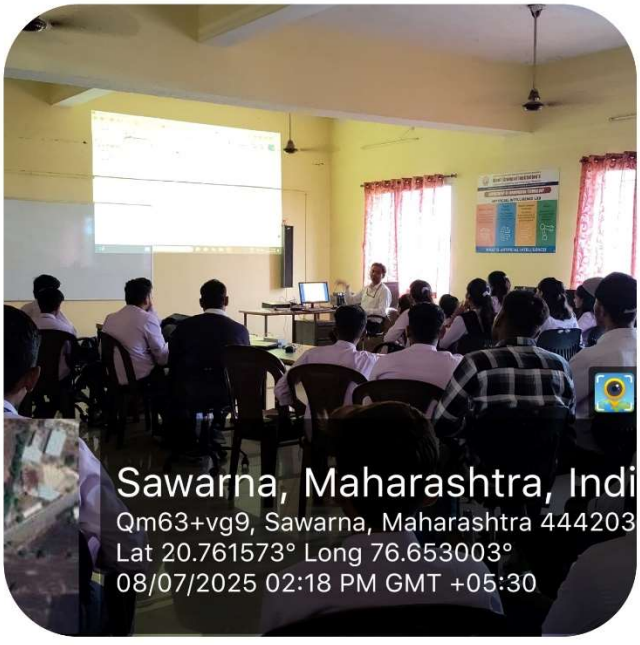
6 Days STTP Highlights





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6 Days STTP Highlights

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
2025/07/12 3:15:23 PM GMT+5:30	Yogita Dhondu Mamatkar	Third Year	9.00 /20
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 lanjulkar	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

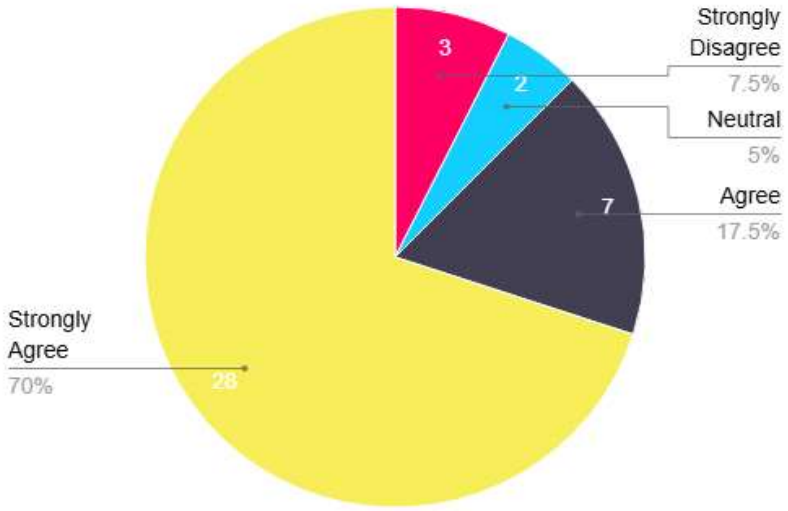
2025/07/12 3:17:15 PM GMT+5:30	Pratiksha Tejrao Jawarkar	Third Year	10.00 /20
2025/07/12 3:17:18 PM GMT+5:30	Bhushan Shankar Sultane	Third Year	12.00 /20
2025/07/12 3:17:23 PM GMT+5:30	JAY SANTOSH LOD	Third Year	14.00 /20
2025/07/12 3:17:23 PM GMT+5:30	**Chaitanya Hariah Bore**	**Third Year**	**18.00 /20**
2025/07/12 3:17:27 PM GMT+5:30	**Vaishnavi Gajanan Rothe**	**Third Year**	**18.00 /20**
2025/07/12 3:17:37 PM GMT+5:30	Sakshi Shrikrushna Dugane	Third Year	15.00 /20
2025/07/12 3:17:41 PM GMT+5:30	**Gayatri Samadhan Chopade**	**Final Year**	**19.00 /20**
2025/07/12 3:17:43 PM GMT+5:30	Kunal lalit Dhanokar	Third Year	14.00 /20
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

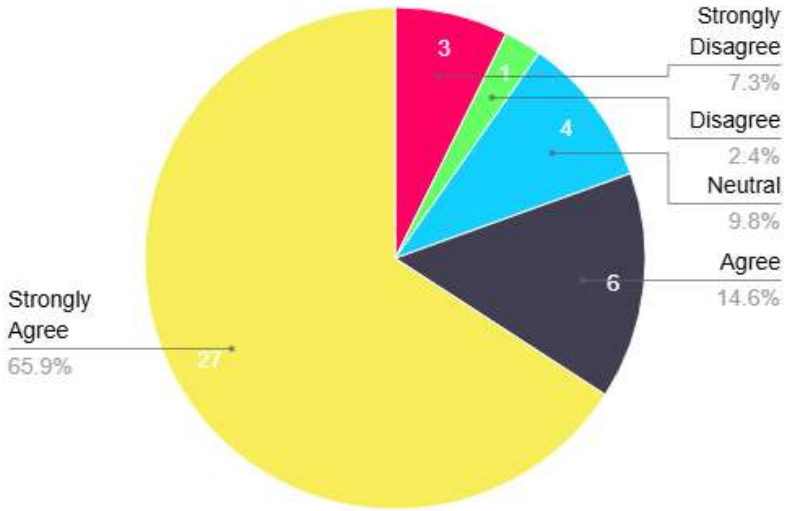
Feedback and Suggestions

Participants expressed high satisfaction with the quality of the sessions and the depth of content covered. They appreciated the practical sessions, which allowed them to apply the theoretical knowledge gained during the lectures. The feedback indicated that the training program was a valuable learning experience and would be beneficial for future research and teaching initiatives.

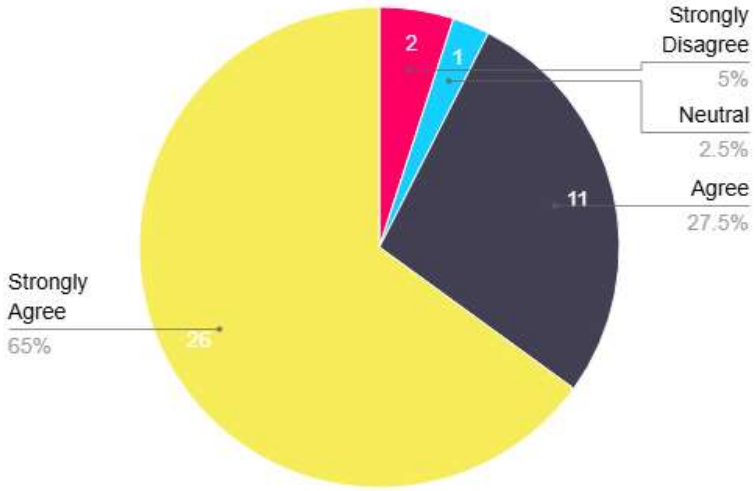
1) **The training sessions were well-organized and easy to follow.**



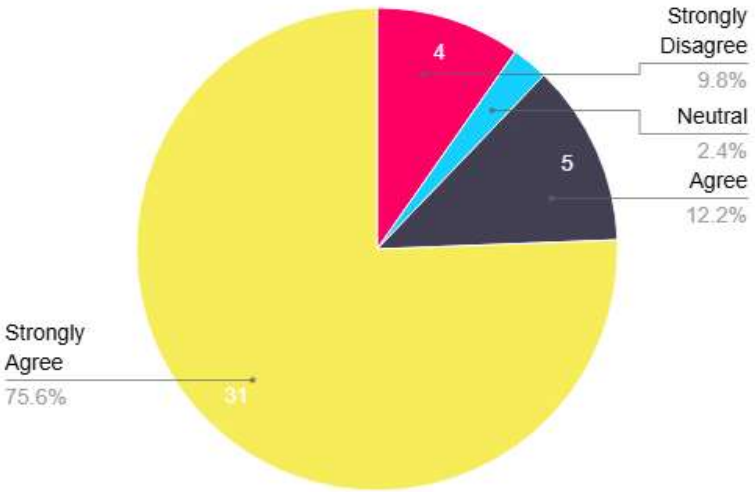
2) **The trainer(s) explained the concepts of Fusion 360 clearly.**



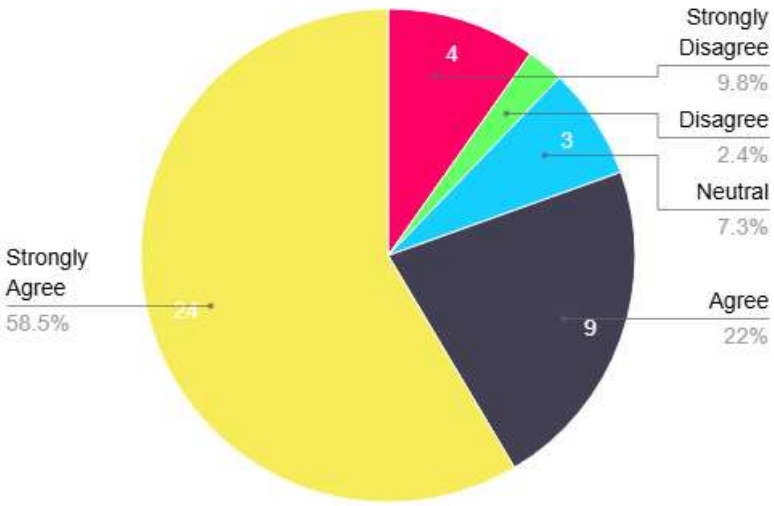
3) I was able to understand the basic tools and features of Fusion 360.



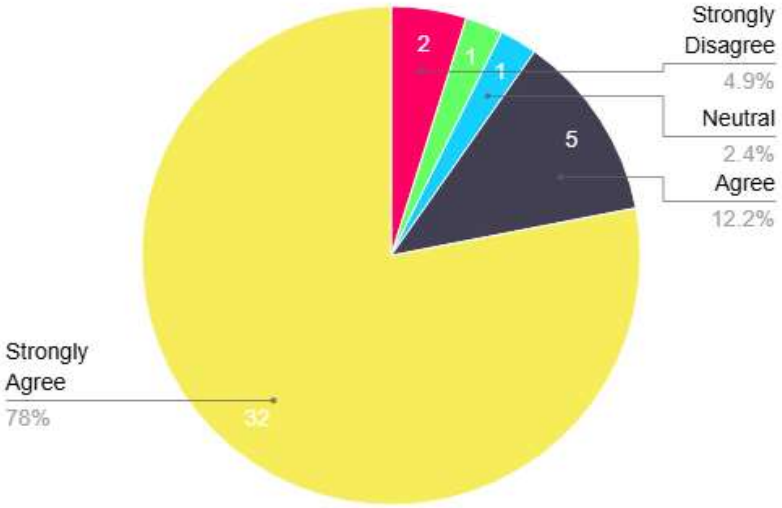
4) Hands-on practice sessions helped me improve my design skills.



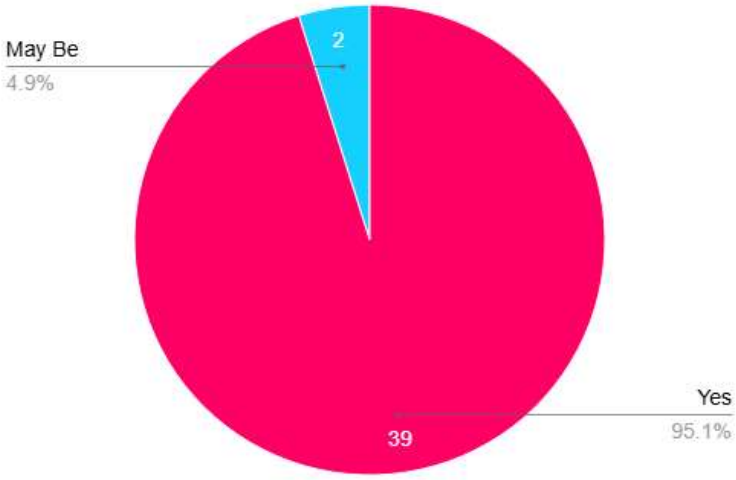
5) The duration of the STTP was sufficient to cover important topics.



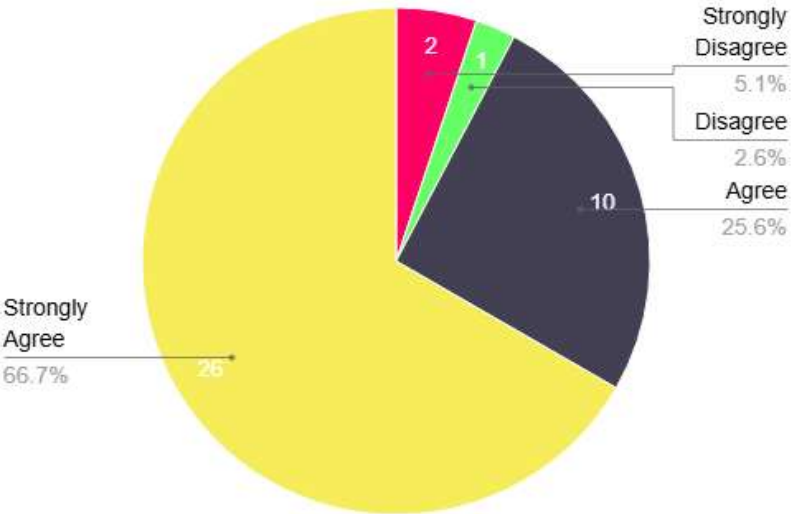
6) **The course content was relevant to my academic and career goals.**



7) **The Fusion 360 software was properly installed and available for use.**



8) **I feel confident in using Fusion 360 for future design projects.**



9) What did you like the most about this STTP?

- Easy to operate
- Manufacturing
- No
- Easy to operated
- Designing
- Fusion 360 is easy to cad molding software.
- Fusion 360 is easy to use
- Like it
- They way they taught us with dedication
- Fusion 360 is easy to operate
- Easy to operated
- Fusion 360 is easy to opertate and very easy to understand
- Like it
- Designing
- No
- No
- Designing
- Fusion 360 is easy to operate and very easy ti understand
- Fusion 360 is very easy to designing
- like it
- Fusion 360
- Fusion 360 Cloud Software and The way of Assignment Given
- CAM
- Easy to Learn and operate
- Sttp was great we learn lot of from it.
- STTP was great we learn lot of from it
- All
- Fusion 360 is very easy to learn
- Fusion 360 is very easy to learn
- Easy to work
- Fusion 360 is very easy to learn
- Easy to learn
- Fusion
- "The hands-on sessions and real-world applications were most impactful.
- Expert guidance and interactive teaching made learning effective and enjoyable.
- Everything
- It is easy to use
- The software was incredible and free to access it.
- Everything

10) Suggest any improvements or topics you would like in future STTPs.

- No
- CAM
- We want CAM software,Catia
- No
- No
- CAM
- We want CAM Software and CATIA
- Cam
- No any improvement
- No improvement needed
- We want CAM software
- CAM
- We will like to learn CATIA and CAM
- No any improvement
- CAM
- No
- No
- Cam
- We will like to CATIA and CAM
- We will like to learn Catia & CAM
- no improvement
- Cam software
- 3D Pattern Printing
- CAM
- CAM & CAE
- CAM ,CAE,CREO SOFTWARE
- CAM , CATIA, CREO
- Animation
- We like to learn CAM and CATIA
- We like to learn CAM and CATIA
- We like to learn CATIA and cam
- We like to learn CAM and Catia
- CAM software CAE software
- Cam
- No... And Thank you for Arranging this program....
- No any
- Course duration
- Yes improvement is needed only about, it shouldn't be in online platform try to keep it in offline mode
- Extend the days of training

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

Shegaon

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RAHUL INGLE

List of Faculty Development Program / Details

AUTODESK FUSION 360

APPROVED

Name and Address of Host Institution

Name: M. G. OF INSTITUTION'S COLLEGE OF ENGG. & TECH.

Email: rahul4ingle@gmail.com

Phone: 9730752607

City: DIST. BULDHANA

State: MAHARASHTRA

Pin Code: 444203

Address: KHAMGAON ROADSHEGAON-

Incharge Details

First Name: DR. C. M. JADHAO

Last Name: Jadhao

Designation: Professor

Email: dr.rahulingle@gmail.com

Mobile Number: 9730752607

Program Details

Intended For: Student and Teachers

Specialization: Mechanical

Course Type: Subject updating course

Programme Duration: One week

Proposed Dates(From-To): 7/7/2025 - 7/12/2025

Proposal covered categories: Industry-based programmes with substantial involvement of industry and its experts

Do you have enough expertise within your institute and neighbouring places to offer the course satisfactorily : No

Name Of Subject Expert

SYSTEMS	Pratik Deshmukh
Rahul Chimkar	Rahul Chimkar

Course Coordinators

Details	Coordinator 1	Coordinator 2
Name	Dr R B Ingle	Prof A P Bawane
Designation	HOD	Assistant Professor
Address	Shegaon	Shegaon
Telephone	09730752607	09657443244
Mobile	9730752607	9657443244
Email	rahul4ingle@gmail.com	amolbawane12991@gmail.com
Highest Qualification	PHD	M E
Area Of Specialization	MECHANICAL	Design
Teaching Experience(Years)	15	10
Industry Experience(Years)	0	0
Total Paper Published	12	5
Total Short Term Courses Attended	15	6
Total Short Term Courses Conducted	1	0

Course Details

Significance & Objectives of the programme

Topic	Duration	Subject Expert
parametric modeling	10	Pratik Deshmukh
Assembly tools	10	Rahul Chimkar
product design	5	Pratik Deshmukh
simulation	5	Pratik Deshmukh
Drafting	5	Pratik Deshmukh

Course Schedule

Total Working Days	Lecture(hrs)	Practical(hrs)	Visits(hrs)	Others(hrs)	Tota Enga
6	10	28	2	2	42

Details of special equipment or laboratory facilities available for the course

Computer

Collaboration with Regulating Authority / Department

Organization	Nature Of Collaboration	Expert Name	Area Of Expertise
SW SYSTEMS	MOU	Pratik Deshmukh	Design

Details of Course Faculty

Name	Designation	Institute	Highest Qualification	Specialization
R M Kshirsagar	Trainer	Up Tech	M E	Design

Audio Visual Facilities:

- LCD Projector

Mode of Course:

Offline

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RAHUL INGLE

IM Certificate

Membership Number	Certificate
2194	View Download

Does your institution have an ISTE Faculty Chapter : Yes

Chapter Certificate

Chapter Number	Certificate
MAH 204	View Download

Certified By Coordinator

Name:	Place:	Date:	Signature:	
RAHUL BHAGWAN INGLE	SHEGAON	6/24/2025	View	Download

Certified By Principal

Name:	Place:	Date:	Request Letter:	
Dr C M JADHAO	SHEGAON	6/24/2025	View	Download

Signature:

View Download