



Shree Santkrupa Shikshan Sanstha's
Shree Santkrupa Institute of Engineering and Technology
Ghogaon (Shivajinagar), Tal-karad, Dist-Satara

Event Report

1.	Name of the activity / Event	Two-day Continuing Education Program (CEP) on “3D Printing Technology”
2.	Date of Activity / Event	11-04-2025 to 12-04-2025
3.	Organized by	Department of Mechatronics Engineering
4.	Name of the Association	Arunoday Enterprises, Kolhapur
5.	Place of Activity / Event	Digital Classroom (Mechatronics Department) Hybrid Mode (Online Offline)
6.	Type of Activity / Event	Continuing Education Program (CEP)
7.	Activity / Event Description	<p>The primary objective of this CEP was to introduce students to the fundamentals of 3D printing technology, hands-on workflows, and its applications in modern industries. The program aimed to bridge the gap between academic knowledge and practical skills in rapid prototyping and design.</p> <p>Key Highlights</p> <ul style="list-style-type: none">• Excellent Student Participation: The program witnessed active involvement from diploma students specializing in Mechatronics. The enthusiasm and curiosity displayed by students throughout the sessions reflected their interest in emerging technologies.• Live Demonstration of 3D Printing Process: A key highlight was the live hands-on demonstration of the complete 3D printing workflow—from designing a model in CAD software to slicing,

		<p>printing, and post-processing the final object. Students were able to observe the layer-by-layer printing process in real time, which enhanced their practical understanding.</p> <ul style="list-style-type: none">• Introduction to CAD and Slicing Software: Students were introduced to beginner-friendly and industry-relevant software such as Tinkercad, Fusion 360, and Ultimaker Cura. They learned how to create basic 3D models and convert them into STL files suitable for 3D printing.• Exposure to 3D Printer Hardware: Students gained familiarity with the key components of a 3D printer including the extruder, print bed, nozzle, filament spool, and control interface. They were guided through the setup, calibration, and maintenance steps to ensure successful prints.• Material Demonstration: Various 3D printing materials like PLA, ABS, and resin were showcased. Their properties, print settings, and applications in different industries were explained, helping students understand material selection based on end-use requirements.• Interactive Troubleshooting Session: Common issues such as warping, stringing, and bed adhesion were demonstrated and discussed. Students were encouraged to ask questions and suggest possible solutions, fostering a collaborative learning atmosphere.• Career Awareness: A dedicated session was conducted on the growing career opportunities in the field of 3D printing, including roles in design, prototyping, machine operation, and product development.
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Program Title: - Two-day Continuing Education Program (CEP) on “3D Printing Technology”

Expert Name: - Mr. Shinde Niranjan (Director, Arunoday Enterprises)

Coordinator: Prof. Mr. Bamankar P. B. & Mr. Kanse A. B.

Date: - 11-04-2025 to 12-04-2025



Day-1 Introductory Session (Online-At digital Classroom)



3D Printing overview Session



Day-1 Overview of 3D Printer



Day-2 Printer setup & Modelling Session



SSIET/1215/MK/C23

Shree Santkrupa Institute of Engineering & Technology, Ghogaon



Department of Mechatronics Engineering

in Association with
Arunoday Enterprises Kolhapur



CERTIFICATE OF PARTICIPATION

This Certificate is presented to

Ms. Karande Samiksha

for successfully completion of two-days **Continuing Education Program (CEP)** on **"3D Printing Technology"** held by the Department of Mechatronics Engineering on **11-12 April 2025**.

HOD

Director
Arunoday Enterprise

Principal

Sample Certificate

Co-Ordinator



Principal