

D. Y. Patil College of Engineering and Technology, KasabaBawada, Kolhapur
School of Architecture

Activity Report
Graphic and Product Deigns Case study

Name of activity	Arunoday Enterprises -3D printing services
Course	Graphic and Product deigns
Year	Second year
Academic Year	2025-2026
Date	31January 2026
Category	Curricular
Name of resource person/s	Niranjan Shinde
Faculty coordinator/s	Chaitali shah and Krushnali Patil
No. of beneficiaries	Div. A – 30, Div.-B - 19 Total 9=49
Class & Division	Second year Div. A and B
CO mapped	-
PO mapped	PO3, PO9, PO10, PO11, PO12
PO gap identified as per previous year	PO10
PSO mapped	-

Brief Description of the Activity:

Graphic & Product Design course visited Arunoday Enterprises, a technology partner specializing in 3D printing, CAD/CAM software solutions, rapid prototyping, 3D scanning, and reverse engineering. During the visit, students received an overview of the additive manufacturing process, observed 3D printer operation, and interacted with professionals to understand the workflow from a digital CAD model to a physical prototype. The session included:

- Introduction to 3D printing technologies and terminology.
- Demonstration of CAD/CAM software used for preparing models for printing.
- Live observation of 3D printing equipment and materials (e.g., filaments).
- Discussion with technical staff about real-world applications in product design.
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This activity linked academic concepts from the curriculum directly with industry practices, helping students contextualize theoretical learning with practical application.

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Application-Based Learning Outcomes:

- Understanding the working of laser cutting and CNC machines.
- Exposure to file preparation and machine-readable formats (e.g., DXF, STL).
- Insight into design customization, prototyping, and fabrication for architecture.
- Awareness of material behaviour during digital cutting.

Attitude-Based Learning Outcomes:

- Developed curiosity and interest in digital fabrication.
- Encouraged hands-on and practical thinking in architectural detailing.
- Strengthened teamwork, observation, and communication skills.
- Motivated to integrate technology in creative design process
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Photography:



Prof. Chaitali Shah
Ar. Krushnali Patil
Assistant Professor

Pro. I S Jadhav
HOD
Head School Of Architecture