Event Report

1) **Name of Event:** 3D Printing and CAD Modelling Workshop
2) **Nature of the Event:** Workshop
3) **Date:** 01-12-2025 to 31-12-2025
4) **Time:** 09:30 AM to 12:30 PM
5) **Venue:** Mentor room and Maker Lab-2
6) **Mode of Event:** Offline session
7) **Organized by:** GUIITAR Council, GSFC University.

8) **Objective of the Event:**

- To develop competency in 2D drafting and engineering drawing using AutoCAD.
- To build skills in 3D parametric modeling, assembly creation, and drawing generation using SolidWorks.
- To understand the complete CAD-to-Print workflow including model preparation, slicing, and FDM 3D printing.
- To enhance practical design, visualization, and prototyping skills for academic and industry applications.

9) **Resource Persons Involved:**

- **Mr. Amit Duggal** – Senior Executive (Technical), GUIITAR Council.
- **Mr. Krish Shah** - Technical Associate, GUIITAR Council

10) **Number of Participants:** 12, Annexure – 1

11) **Brief of Event :**

The GUIITAR Council, GSFC University successfully organized a 30-hour hands-on internship program on AutoCAD, SolidWorks, and 3D Printing at Maker Lab-2, aimed at students from various schools of the university. The program was designed to provide practical exposure to industry-relevant CAD tools and additive manufacturing technologies, enabling students to develop strong design and prototyping skills through structured laboratory-based training.

During the training, students learned 2D drafting and annotation techniques using AutoCAD, followed by 3D parametric modeling, assembly

creation, and drawing generation using SolidWorks. The sessions emphasized practical learning through exercises, component modeling, and design assignments, helping participants understand the complete digital design workflow from conceptualization to engineering documentation.

The internship also included a dedicated module on FDM-based 3D printing, where participants prepared CAD models for printing, learned slicing parameters, operated printers, and performed post-processing activities. The program concluded with a mini-project involving drafting, 3D modeling, and fabrication, ensuring that students gained a complete CAD-to-print experience and improved their readiness for academic projects, internships, and industry applications.

Impact Created

- Enhanced students' practical proficiency in industry-relevant CAD tools such as AutoCAD and SolidWorks through hands-on design and modeling exercises.
- Developed understanding of the complete CAD-to-Prototype workflow, including model preparation, slicing, and FDM 3D printing.
- Strengthened problem-solving, design thinking, and visualization skills useful for academic projects, internships, and competitions.
- Increased awareness and adoption of digital manufacturing technologies such as additive manufacturing and rapid prototyping within the university ecosystem.

Outcomes Achieved

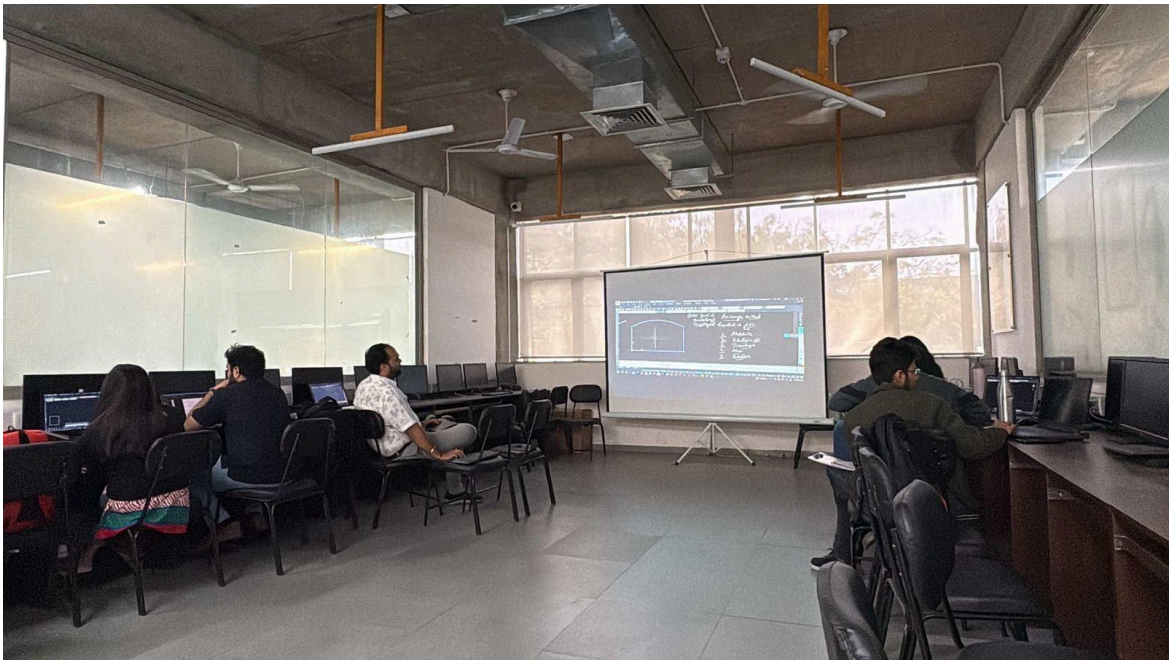
- Students successfully created 2D engineering drawings and 3D parametric models using AutoCAD and SolidWorks.
- Participants executed hands-on 3D printing of CAD models, gaining practical exposure to slicing, printer setup, and post-processing.
- Mini-projects completed by students demonstrated the end-to-end CAD-to-print workflow capability.
- Improved readiness of students for industry internships, academic projects, and design competitions through applied technical skill development.

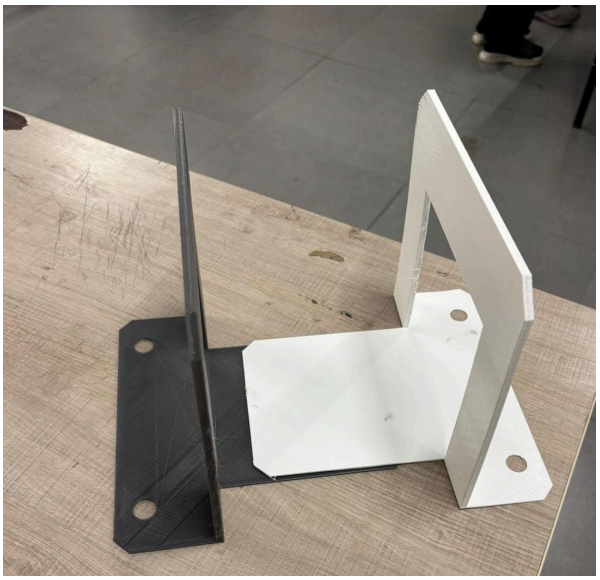
Conclusion

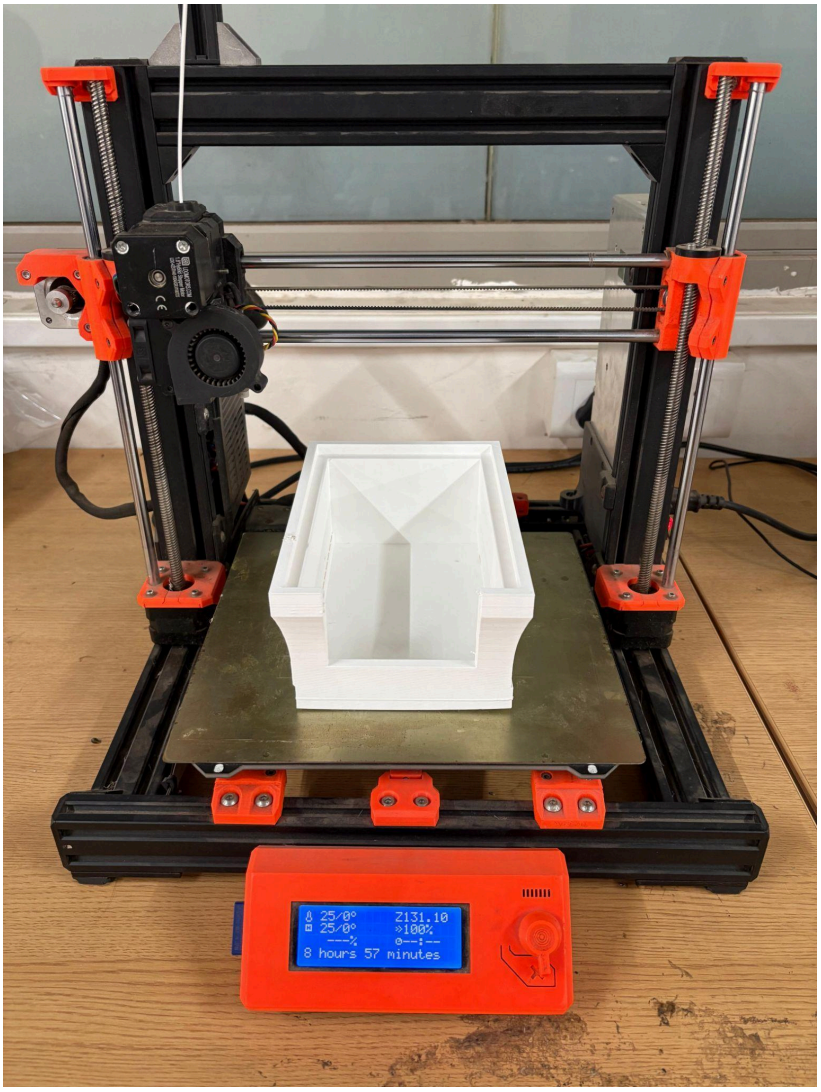
The internship program successfully provided participants with a comprehensive blend of theoretical knowledge and practical exposure to modern CAD and additive manufacturing technologies. Through hands-on

learning, mini-projects, and real-time fabrication activities, students developed design, modeling, and prototyping skills. The program effectively strengthened their technical competencies and prepared them for academic projects, internships, and future industry requirements.

12) Important Photographs



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Annexure-1

Number of Participants: 12

#	Student Name	Program	School
1	Ms. Rameez Malek	B.Sc. Data Science	SoS
2	Mr. Divya Ashish Chaudhari	BCA	SoT
3	Mr. Meet Dholariya	B.Sc. Data Science	SoS
4	Mr. Manav Rajai	B.Sc. Data Science	SoS
5	Ms. Raksha Singh	B.Sc. Data Science	SoS
6	Mr. Akash Mishra	B.Sc. Data Science	SoS
7	Ms. Somanshi Jain	B.Tech. CSE	SoT
8	Mr. Jayom mehta	B.Tech. CSE	SoT
9	Mr. Havya Miteshkumar Darji	B.Tech. CSE	SoT
10	Mr. Harsh Patel	B.Tech. CSE	SoT
11	Ms. Hema Pandit	B.Tech. CSE	SoT
12	Mr. Jayom mehta	B.Tech. CSE	SoT