



EVENT REPORT

“A Workshop on 3D Printing”

**Organised by the SAEINDIA - MAIT
Club in association with Curiosity 3D**

VENUE & TIME:

Mechatronics Lab

2nd Block

MAE Department

10, 11, 12 & 13 May, 2022

Report of SAEINDIA-MAIT Club's "Workshop on 3D Printing"

SAEINDIA collegiate club of Maharaja Agrasen Institute of Technology, conduct the 4- day "Workshop on 3D Printing" in association with, Curiosity 3D on 10th May 2022 to 13th May 2022. To give the hands-on experience to students, provided three 3D printer of Creality Ender – 3D Printers. The 3D printer is available in lab for students with material to learn the design methodology, generate idea and check their ideas by manufacturing the part by 3D printer.

EVENT OBJECTIVES:

- To impart basic knowledge about the 3D printing process.
- To explain the considerations and constraints for designing a part for 3D printing (Design for Additive Manufacturing).
- To explain the process of preparing a model for 3D printing using Slicer software, along with its various settings.
- To further encourage the understanding of the students about the 3D printing process through a Design Competition.

EVENT SCHEDULE:

Day 1 to 3 - 2 session each day

Day 1 – Basics of 3D Printing

Day 2 – Design for 3D Printing (DFAM)

Day 3 – Preparing a model for 3D Printing (Slicing)

Day-4 - Design Competition

EVENT HIGHLIGHTS:

- The key speaker for the workshop was Mr. Raunaq Dua from Curiosity 3D.
- The event was conducted in a span of three days.
- A design competition was organised after the workshop in which various teams participated.

DAY 1:

- The first day of the workshop began with an introduction of the Additive Manufacturing (3D Printing) process.
- Multiple 3D Printers were set-up in the room for live demonstration of the 3D printing process.
- Next, various industrial applications of the AM process were shown through a presentation.
- The first day of the workshop was concluded with a Q&A session.

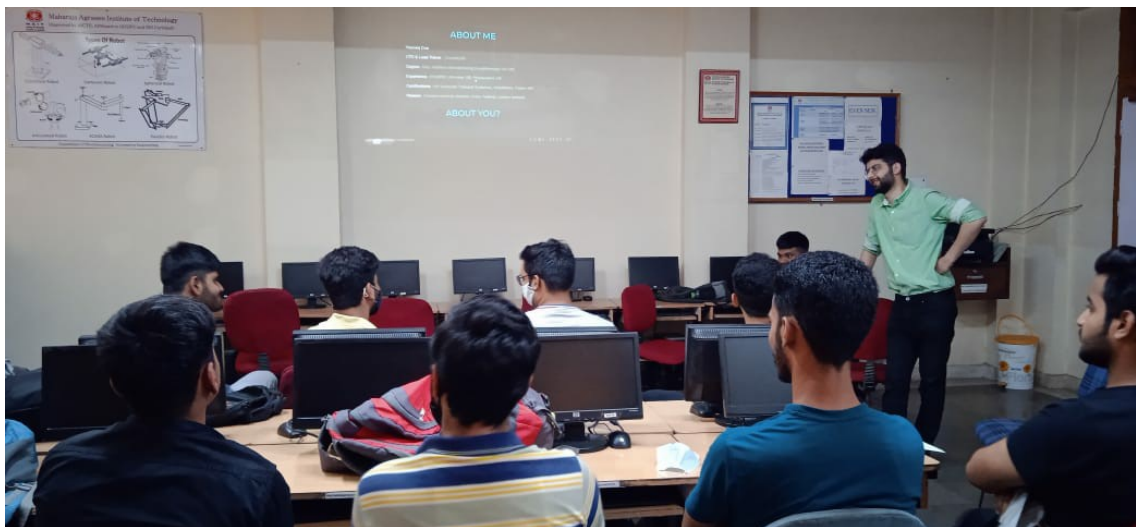
DAY 2:

- On day two of the workshop, the students were taught about Design for Additive Manufacturing (DFAM).
- Various considerations and constraints for designing a part for 3D printing were introduced.
- Good practices while designing a part for 3D printing were also explained.
- The second day was concluded with a QnA session.

DAY 3:

- On the third day of the event, the students were introduced to the complete workflow of 3D printing.
- The process of “Slicing” was explained.
- Functions of different settings were explained.
- A model was printed for demonstration.
- The final day of the workshop was wrapped up with a QnA session.

EVENT PHOTOS:





Day 4 (Design Competition):

- A design competition was organised at the end of the 3-day workshop on 3D printing.
- The competition was conducted on 13 May, 2022 from 11am to 3pm.
- Participants formed teams of 3 and designed and printed their parts.
- Designs were printed on “Creality Ender – 3 Printers” kindly funded by **AICTE SPICES**.
- The top three best designs were selected as winners.



3D Printer

1st Position:

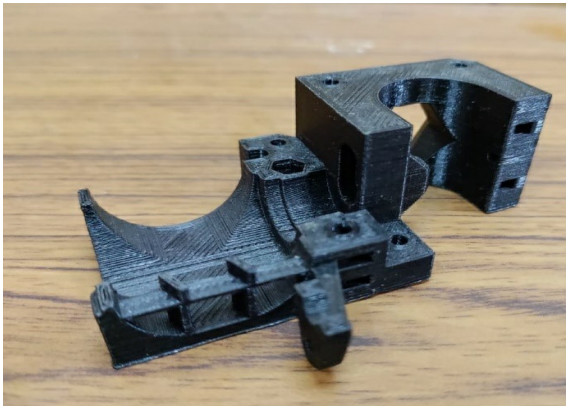




3rd Position:



2nd Position:



LIST OF ATTENDEES:

S.No.	Student Name	S. No.	Student Name
1	Abhijeet Suman	47	Priyanshu Jain
2	Abhishek Varun	48	Aditya Goyal
3	Adarsh Rai	49	Aniket Kumar
4	Aditya Goyal	50	Vikunj Kumar
5	Adnan Anwar	51	Priyanshu Rajan
6	Ajit	52	Mayank Arora
7	Akshat Chaudhary	53	Mohit Jha
8	Akshit Kashyap	54	Jean Krishna
9	Aman Dev Yadav	55	Archit Karn
10	Aman Gupta	56	Aryan Rana
11	Aniket Kumar	57	Mayank Neji
12	Anmol Kumar	58	Nishant Sharma
13	Ansh Goyal	59	Abhijeet Sharma
14	ARCHIT KARN	60	Mayank Dhyani
15	Aryan Gadroo	61	Jasdeep Singh
16	Aryan Rana	62	Chetan Vidian
17	Aryan Saini	63	Mandeep
18	Atinderjeet Singh	64	Hamish Sharma
19	Ayush Tyagi	65	Adyan
20	Balwinder Singh	66	Neeraj Jha
21	Chaitanya Rastogi	67	Chirag Gupta
22	Chandan Kumar	68	Abhay Malhotra
23	Chetan Vidiyar	69	Mayank Singh Negi

24	Chirag Saini	70	Mohak Shah
25	Chirag Sharma	71	Mohit Jha
26	Deepak Jha	72	Nazim Sahun
27	Dipesh Gupta	73	Neeraj Jha
28	Gaurav	74	Nikunj Kumar
29	Gautam Bargujar	75	Nishant Sharma
30	Gulzar Singh Chadha	76	Parijat
31	DEEPANSHU GOYAL	77	Parth Bhardwaj
32	Homesh Saharan	78	Pradumn Chauhan
33	Jasdeep Singh Chopra	79	Pratham Arora
34	Jean Krishna	80	Prince Singh
35	Jeff E Verghese	81	Priyanshu Jain
36	Kanav Bali	82	Priyanshu Ranjan
37	Kanav Jain	83	R Vignesh
38	Kartik Rana	84	RAHUL PATHAK
39	Kartik Tanwar	85	Rajat Nagarwal
40	KRRISH JINDAL	86	Ritesh Jha
41	Mandeep	87	Romil Shankar Gupta
42	Manik Bhatia	88	Saamarth Aggarwal
43	Mayank Arora	89	Saheem Ahmad Khan
44	Mayank Dhyani	90	Seemant Wason
45	Mayank Sejwal	91	Shivam Sharma
46	Shyam Singh	92	Shriyansh Jain

Design Competition Winner:

1. Abhinav
2. Aryaman Batra

3. Siddharth Aggarwal
4. Abhishek Kumar
5. Ajay
6. Bhavey Goel
7. Sanyam Jain
8. Rohan

ATTENDEE FEEDBACK:

Abhijeet Sharma:

“It was a very educating experience. I learned a lot about the uses of 3D printing in the industry.”

Jasdeep Singh:

“3D printing is a great technology. The process of sparking an idea in your mind to holding a finished model in your hand can be realised within a few hours.”

Total Cost for the workshop is Rs. 66,000/- for buying three 3D printer and its material to conduct the workshop.

Rakesh Saini
(SAE-Club Coordinator)

Atul Kaushik
(SAE-Club Co-coordinator)

Prof. Neelam Sharma
Director, MAIT