



Panipat Institute of Engineering and Technology

Approved by A.I.C.T.E. & Affiliated to Kurukshetra University, Kurukshetra
70, MILESTONE, G. T. ROAD, SAMALKHA, PANIPAT-132103, HARYANA
Phone no-0180-2569700 Fax-0180-2569800, E-mail – info@piet.co.in, Web – www.piet.co.in

Department of Civil Engineering


Ref. No.: PIET/CE/ICT/2021/02

Date: 1st October 2021

NOTICE

Session on “3D Printing in Civil Engineering”

This is for the information of all concerned that the Department of Civil Engineering is organizing a session on **“3D Printing in Civil Engineering”** on **4th October 2021**. The session will start at 10:00 AM in Seminar Hall (E-Block, Second Floor). Mr. Lalit Kumar (Assistant Professor, Civil Engineering Department) will coordinate the event. He will carry out all necessary arrangements for the event. Interested students can give their names to the coordinator.


HEAD
CIVIL ENGINEERING DEPARTMENT
PANIPAT INSTITUTE OF ENGINEERING. TECHNOLOGY
SAMALKHA (PANIPAT)

Head of Department

CC

Notice Board



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Report on “3D Printing in Civil Engineering”

Event Details

Title of the Event: 3D Printing in Civil Engineering

Date of the Event: 4th October 2021

Timings: 10:00 AM onwards

Venue: Seminar Room, Second Floor, E-Block

No. of Participants Enrolled: 31

No. of Participants Attended: 31

Mode: Offline

Resource Persons: Mr. Pradeep Kumar (Assistant Professor, Mechanical Engineering Department, Panipat Institute of Engineering and Technology)

Coordinator: Mr. Gaurav Kumar

A session was held on 4th October 2021 to educate B.Tech. Civil Engineering students on the applications of 3D printing in civil engineering. Mr. Lalit Kumar coordinated the event. He and Mr. Gaurav Kumar (Head of the Department) welcomed the event resource person (Mr. Pradeep Kumar). The session started with elucidating the concepts, procedures, and historical evolution of 3D printing technology. The key components that were reviewed encompassed the several types of 3D printing techniques pertinent to civil engineering, including concrete printing, polymer-based printing, and metal printing. The session emphasized the benefits of utilizing 3D printing in construction, including minimized material wastage, enhanced design adaptability, accelerated project completion, and financial savings. The session also discussed the obstacles and constraints of 3D printing in civil engineering, including the requirement for substantial initial investment, regulatory obstacles, and restrictions in materials. The discussions on future developments encompassed the progress in materials used for 3D printing, the automation of processes, and the fusion of 3D printing with other technologies such as BIM (Building Information Modelling) and robots. The outcomes of the session are as follows:

- Students gained a solid understanding of 3D printing technology, including its principles and processes.
- Students learned about the various applications of 3D printing in civil engineering, such as in the construction of houses, bridges, and infrastructure.
- Students recognized the advantages of 3D printing in construction, including reduced material waste, design flexibility, faster project completion, and cost savings.

The event was concluded with a vote of thanks by the coordinator of the event and felicitation of the resource person of the event, Mr. Pradeep Kumar, by the head of the department, Mr. Gaurav Kumar.

Picture of session



Picture: A session on 3D Printing by Mr. Pradeep Kumar



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3D Printing in Civil Engineering

List of Attendees

Sr. No.	Roll No.	Name	Department	Year	Sign
1	2818652	SHAHID AIJAZ	Civil	Fourth	Shahid
2	2818653	ANIKET	Civil	Fourth	Aniket
3	2818656	ROHITKUMAR YUMNAM	Civil	Fourth	Rohit
4	2818657	AMAR KUMAR SHAH	Civil	Fourth	Aman
5	2818661	SHUBHAM SHARMA	Civil	Fourth	Shubh
6	2818666	TARUN GULYANI	Civil	Fourth	Tarun
8	2818671	NITIN KUMAR MALIK	Civil	Fourth	Nitin
9	2818676	PRINCE KAUSHIK	Civil	Fourth	Prince
10	2818681	ABDULLAH ANSARI	Civil	Fourth	Abdullah
11	2818684	BHASHKAR PANDEY	Civil	Fourth	Bhashkar
12	2818686	VIVEK KUMAR RAWAL	Civil	Fourth	Vivek
13	2818690	ARUN SAH	Civil	Fourth	Arun
14	2818692	SANJIT KUMAR YADAV	Civil	Fourth	Sanjit
15	2818695	ANIL KUMAR YADAV	Civil	Fourth	Anil
16	2818697	SRISHTI THAKUR	Civil	Fourth	Shrishti
17	2818699	MANISH YADAV	Civil	Fourth	Manish
18	2819971	SAINIEE SAIKIA	Civil	Fourth	Sangee
19	2819659	KOSHIK SAGOTRA	Civil	Third	Koshik
20	2819664	AYUSH	Civil	Third	Ayush
21	2819677	AMIT	Civil	Third	Amit
22	2819684	DHIRAJ KUMAR SAH	Civil	Third	Amit
23	2819693	LOKESH	Civil	Third	Lokesh
24	2819697	MAHENDRA SUNAR	Civil	Third	Mahendra
25	2820971	DAKSH VERMA	Civil	Third	Daksh
26	5120465	ADITYA	Civil	Third	Aditya
27	2820702	PARSHANT ROHILLA	Civil	Second	Parshant
28	2820710	AMAN KUMAR	Civil	Second	Aman
29	2820714	GAURAV KUMAR	Civil	Second	Gaurav
30	2820719	CHIRAG JHINJHRIA	Civil	Second	Chirag
31	2820727	ADITYA SRIVASTAV	Civil	Second	Aditya

Lalit Kumar

Coordinator
Mr. Lalit Kumar