



Learn Beyond

**KPR Institute of
Engineering and
Technology**

(Autonomous, NAAC "A")

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Phone: 0422-2635600**Web:** kpriet.ac.in**Social:** kpriet.ac.in/social**ME027****NBA Accredited**
(CSE, ECE, EEE,
MECH, CIVIL)**HAND ON TRAINING ON 3D PRINTING**

Event No	ME027
Organizing Department	Mechanical Engineering
Associate Dept. NSC	Centre of Excellence
Date	30/07/2022
Time	09:15 AM to 04:30 PM
Event Type	Workshop
Event Level	Dept. Level
Venue	3D Printing Lab, Mechanical Engineering
Total Participants	11
Students - Internal	11

Related SDG**Involved Staffs**

Sl	Name	Role
1	Arunkumar P	Coordinator
2	Kumar M	Coordinator

Outcome

This workshop was greatly motivated the mechanical engineering students to excel their skills in the field of 3D Printing Technology.

Event Summary

An one-day Hands-on Workshop on "3D Printing and 3D Scanning" was organized by CoE- 3D Printing Laboratory, Department of Mechanical Engineering on 30.07.2022, between 09.15am to 04.30pm at 3D Printing Laboratory. Dr. M. Kumar, Associate Professor, Mechanical Engineering, KPRIET and Mr. P. Arunkumar, Assistant Professor, Mechanical Engineering, KPRIET, consented to be the guest speaker and handled the sessions. Around 11 internal students had attended the session. The resource persons have explained about 3D printing, 3D scanning and it's reverse engineering applications. They explained about growth of 3D Printing nowadays and importance of the skills in industry 4.0. They explained various materials used in 3D Printing and their applications in details. Further, the classification of 3D Printing technology (solid, liquid and powder based method) is dealt. They trained the students with demonstration of FDM and DLP 3D printer. In addition, the slicing software for 3D Printing is explained and made the students to practice and learn. Also they gave hands on experience about 3D scanner with detailed post processing steps. The specification of 3D scanner as follows:

Resolution : 0.5 mm (500 microns)

Accuracy : 0.1 mm (100 microns)

Light source : Flash bulb (white)

Working distance : 0.4 – 1m

Linear Field of View : Closest 214 x 148mm; Furthest 536 x 371 mm

Angular FoV : 30 x 21°

Image throughput : 16 fps

Further, They interacted and clarified the doubts raised. The participants was so curious about learning 3D scanner and they are motivated to work further in the field of 3D Printing technology.

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