

## Training on 3D Printer Technology and Hands on Session

### One day training on 3D printer technology and hands on session by WOL 3D, Pune on 28 March 2023

A one-day workshop/training was conducted on 28<sup>th</sup> March 2023, at VPKBIET's Bharat Forge Sponsored Centre of Excellence for youth Development on 3D printing and Design. Experts from WOL 3D Pvt. Ltd. conducted training for the students. Around 51 students along with lab in- charges attended the training session. 3D printing also called as Additive Manufacturing (AM) is a process of developing prototypes using various materials like plastics, ceramics, metals, glass and composite materials. In recent years, 3D printing has developed significantly and performs crucial roles in many applications, with the most common applications being manufacturing, medicine, architecture, custom art, and design, and can vary from fully functional to purely aesthetic applications. Knowledge of 3D printing process will enable students to convert their ideas into reality. I will also help them to develop their innovative products.

**Number of Students Participated: 51**

#### Objective of Workshop/Training:

1. To update the participants with the state-of-the-art technologies in 3D Printing.
2. To enable the participants to have experiential learning in 3D modeling, build-setup preparation and 3D printing through hands-on sessions.
3. To understand the concept of reverse engineering using 3D scanner

#### Topic Covered during workshop/Training

1. 3D model preparation using modeling software
2. STL files generation and conversion
3. 3D printing software and processes
4. Hands on Session on Fused Deposition Modeling (FDM) printer
5. Hands on Session on Stereo lithography (SLA) Printer
6. Hands on Session on 3D Scanner and 3D Pens



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