

## **Workshop on Prototype/Process Design, Development, and 3D printing – for Sathaye College faculty Members**

### **Objective:**

- To sensitise participants about prototyping/Process design & Development.
- To introduce 3D printing technology to participants of Sathaye College EDC Members.

### **Benefits:**

- Participants understood the meaning and importance of prototyping/Process design & Development.
- Participants got a clear idea about the 3D printing technology.
- Participants tried to design their 3D models.

**Description:** 8<sup>th</sup> July 2023 PTVAIM's COEI in collaboration with Sathaye college EDC organised a Workshop on Prototype/Process Design, Development, and 3D printing for Sathaye College EDC Members from 1:00 pm to 3:00 pm . There were 10 participants attended the workshop.

### **Report on Workshop on Prototype/Process Design and Development and 3D printing.**

8th July 2023 PTVAIM's COEI in collaboration with Sathaye college EDC organised a Workshop on Prototype/Process Design, Development, and 3D printing for Sathaye College EDC Members from 1:00 pm to 3:00 pm . There were 10 participants attended the workshop.

Mr. Mandar Salasakar, Innovation Ambassador started the workshop with brief about importance and different types of prototyping. He gave an example of a musical instrument tracking device, where He explained how that product should be, what would be the design and what would be the properties of that product. While explaining the types of prototyping He highlighted 3D printing technology. He also shared how 3D printing technology can be the most efficient and effective type of prototyping. After that Mr. Mandar Salasakar asked Mr. Mayur Khanvilkar to explain 3D printing technology.

Mr. Mayur Khanvilkar started with a concept of 3D printing in very simple words. He stated that 3D printing technology is an additive manufacturing process. It is a process of making a



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3D dimensional product with the help of digital files i.e. a soft copy of a 3D model. To make it simpler he distributed some prints and 3D printed objects with participants and explained the differentiation between regular 2D printing and 3D printing. Participants understood the basic concept behind the 3D printing technology. Mr. Mayur also covered discussed the sectors in which 3D printing technology is being used and what are the benefits of 3D printing technology.

After the theoretical part Mr. Mandar Salasakar took over the session and explained the actual 3D designing in software. He explained participants how to create their 3D designs on Tinkercad website and he asked participants to explore the tinkercad website. Accordingly, participants started to explore and tried to design their products. Mr. Mandar Salaskar also taught participants how to set the 3D printers for printing. All the participants were so active and overall, it was interactive session and it ended successfully at 3:00 pm.

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