PTVAIM'S CENTER OF ENTREPRENEURSHIP & INNOVATION

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

Workshop on Prototype/Process Design, Development, and 3D printing.

Objective:

- To sensitise students about prototyping/Process design & Development.
- To introduce 3D printing technology to PTVAIM students.

Benefits:

- Students understood the meaning and importance of prototyping/Process design & Development.
- Students got a clear idea about the 3D printing technology.
- Students designed their own 3D models and printed their own 3D objects by themselves.

Description: On 11th October 2022 under student exchange programme 18 students from Tetso College, Nagaland and 2 faculty members visited the PTVAIM's Centre of Entrepreneurship & Innovation as well as attended the Workshop on Prototype/Process Design and Development and 3d printing.

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

PTVAIM's COEI organised a 'Workshop on Prototype/Process Design and Development and 3d printing' on 11th October 2022. There were 25 students who attended the workshop. Dr. Sucheta Pawar started with explaining the business model of COEI and also introduced the MBA_IEV Course to them. Students of Tetso College, Nagaland interacted with our PTVAIM's director Dr. Vijay Wagh & COEI Team members.

Students visited COEI and were later moved to M.L.Dahanukar IT lab for workshop on Prototyping & 3D Printing. Dr. Sucheta Pawar started the workshop with brief about importance and different types of prototyping. She gave an example of a musical instrument tracking device, where she explained how that product should be, what would be the design and what would be the properties of that particular product. While explaining the types of prototyping she highlighted 3D printing technology. She also shared how 3D printing technology can be the most efficient and effective type of prototyping. After that Dr. Sucheta Pawar asked Mr. Mayur Khanvilkar to explain 3D printing technology.

Mr. Mayur Khanvilkar started with a concept of 3D printing in very simple language. He stated that 3D printing technology is an additive manufacturing process. It is a process of making a 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 students and explained the differentiation between regular 2D printing and 3D printing. Students 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.

PTVA's Institute of Management Mumbai 57.

Director
PTVA's Institute of Management
Chitrakar Ketkar Marg,
Behind M. L. Dahanukar College,
Vile Parle (E), Mumbai-400 057.

After the theoretical part Mr. Mandar Salasakar took over the session and explained the actual 3D designing in software. He explained students how to create their 3D designs on Tinkercad website and he asked students to design their own 3D key chains. Accordingly, students started to design their keychain and Mr. Mayur & Mr. Mandar inspected each student's designs. Mr. Mandar Salaskar also taught students to set the 3D printers for printing and also showed them how to use the 3D pens. All the participants were so active and everyone tried the 3D pens and created their own models.

Students of Tetso College, Nagaland received a participation certificate at the hands of Dr. Snehalata Deshmukh. At the end Dr. Sucheta Pawar declared a small competition of designing own 3D models and winners of this competition will get his/her 3d printed gift & a certificate. Overall it was interactive session.

Workshop was ended successfully at 5:30 PM

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