

3D Printing Workshop Course Content

3D Printing Workshop:

We believe in bringing new technology to students, so that they can face the competitive world in future. We provide everyone an opportunity to participate in this technology either he/she belongs to any stream. 3D printing in the technology which brings imagination into 3D object realistic world. In today's world there is huge demand of 3D technology

Student Benefits:

1. Creating Inventors
2. Bring Art Back
3. Engaging Reluctant Learners
4. Creating Responsible Digital Citizens
5. Making Everything Hands On
6. Building School Camaraderie
7. Solving Real World Problems
8. Experienced Trainer
9. Guaranteed Successful Program

What Students would gain?

- Students enhance their ability to utilize information technology in design practice.
- Chance to work & experience “Meet by Things” & most evolving Technology.
- Students develop their ability to apply necessary CAD skill to meet the emerging challenges occurring in the profession.
- Students improve their ability to prepare for pursuing an advanced graduate degree in design Computing.
- A broad range of intellectually challenging curricula that prepares graduates for successful and rewarding lives in a rapidly changing world - with emphasis on developing skills in Critical thinking, information management, team-based learning, problem-solving, and skills needed for life-long learning.
- Innovations in effective teaching and learning programs supported by faculty and staff development opportunities; widespread emphasis on student-centered learning environments.

DAY-1

Session 1: Introduction to 3D printers

- General introduction
- Basic and technologies in 3D printers
- History of 3D Printing
- How does a 3D-printer work?
- What are the different types of printers and materials you can use?
- Who uses 3D Printing and what for?
- What can you print with a 3D-printer?

Session 2: Design for 3D Printing

- Hands-on design and print process
- Basic CAD software
- File sources & formats
- Modifying existing designs
- Making your own creation

Session 3: Initialize and set up the 3D Printer with basic settings

- Printer settings
- How to setup a 3D printer
- Troubleshooting
- Testing and calibration of 3D Printer

DAY-2:

Session 4: Practical work on 3D printer.

- Operating a 3D Printer
- Make your own 3D design
- Evaluate the Prototype and Tips to Improve It
- A 3D print to take away
- Advanced Topics, Latest Trends, Tips and Tricks – More hands-on 3D Printing Training

Session 5: Competition

At the end of the workshop, all participants will get a Certificate of Participation and the best designs will be given a merit certificate.