

Five Days Workshop
on
“Skill Development using 3D Printing”
held on
14th – 18th November, 2022

Organized by: Department of Mechanical Engineering, The ICFAI University Tripura

Theme of the workshop: The most essential theme of this industry-aligned workshop on 3D printing is to develop participants’ abilities that are properly suited to the need of the current modern workplace. The goal of the workshop is to provide chance to the participants to gain real-world industry experience in a variety of 3D printing, which will build their confidence.



Fig.1. Inaugural Session on 14.11.2022



Fig.2. Delivered Welcome address by Prof. (Dr.) Biplab Halder, Vice Chancellor, The ICFAI University Tripura during Inaugural Session.



Fig.3. Benchmark 3D printer and build preparation software



Fig.4. Students need to ensure that they are industry-ready by the end of the programme.

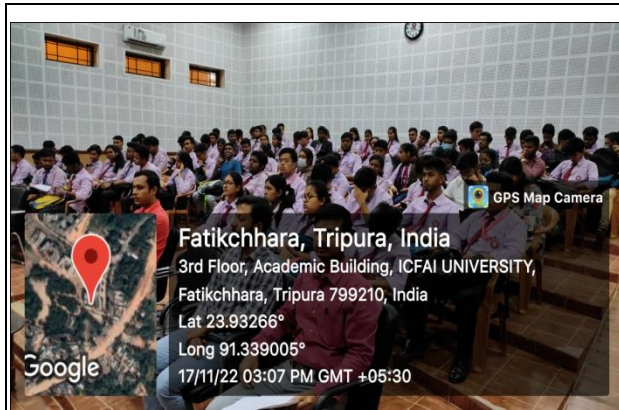


Fig.5. Lecture session on 3D printing materials for Complex engineering applications



Fig. 6. 3D objects fabrication using 3D printing machine



Fig. 7. Photo sessions on Day 3 of the workshop



Fig. 8. Valedictory Photo session

The 3D printing, an additive manufacturing technology, involves adding material to create an object, while traditional manufacturing removes material through machining, or milling. Using 3D printing technology, multifaceted designs can be produced easily and multiple parts can be amalgamated for higher durability. Additive Manufacturing permits shorter manufacturing runs and is flexible to customisation - a big advantage. Wastage of materials will be minimal, reducing both materials as well as disposal costs.

Now-a-days, it is beneficially used in space applications as the lower weight of the launch vehicle/rocket allows higher payloads, apart from cost saving accruing from avoiding high tooling costs for small volumes. It is helpful in healthcare too for orthopaedic applications, surgical implants that allow the required porosity levels and enable faster fusion. Its application is increasing day-by-day.