



# Training Course on CAD Modeling & 3D Printing

Duration : All short courses between 3-5 days

## Program Details

This short term course is designed to impart participants with the skills and practice on CAD modeling and subsequently 3D Printing. Participants will acquaint adequate hands-on experience in designing, checking, simulating and manufacturing of a range of engineering models using CAD software and 3D printing machine & utilities. The following topics will be covered on the course;

### CAD Modeling

- Fundamentals of drafting and modeling (2D & 3D)
- Use of CAD software for practice
- Integrating 3D models with the machine

### 3D Printing

- Fundamentals on the concept of additive manufacturing
- Use of 3D software for practice
- Manufacturing of Engineering models using 3D printer

## Learning Outcomes

- To develop an understanding of additive manufacturing
- To practice 3D CAD solid models using the software
- To understand the operation, programming, maintenance and safety aspects of 3D printing machine.

## Target Participants

The course would suit any individual working professionals or organizations who are interested in sending groups of staff for training. Ideally, participants shall be diploma holders and engineering graduates, CAD technicians, practicing supervisors and engineers. In addition the course will also benefit individuals from a mechanical/ production engineering background, draftsmen, practicing design engineers, academicians and laboratory staff.

## Pre-requisites

In addition, the participants must have an adequate knowledge on various types of materials, properties particularly polymers and low melting metals and various manufacturing processes.