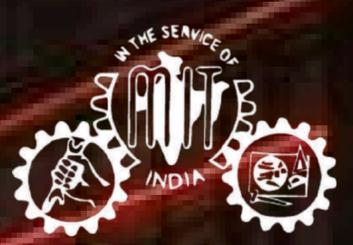


MADRAS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF AEROSPACE ENGINEERING
ASSOCIATION OF AERONAUTICAL ENGINEERS



PRESENTS

FLIGHT'26

3D PRINTING WORKSHOP

REGISTER NOW



FOR REGISTRATION
299/- PER HEAD

FOR MORE INFO



MIT

22 MARCH 2026

9:30 AM

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3D PRINTING WORKSHOP

INTRODUCTION AND DESCRIPTION

Step into the world of modern manufacturing where digital models transform into physical objects through Fused Deposition Modeling (FDM) technology. This workshop introduces the fundamentals of 3D printing using the Creality Ender Series printer, blending core concepts with guided practical exposure.

The session begins with an overview of 3D printing principles and the working mechanism of FDM, followed by a walkthrough of the Creality Ender printer and its key components. Participants will explore common 3D file formats and model sources before moving into model inspection and repair using Meshmixer.

Slicing fundamentals will be covered using Ultimaker Cura and Creality Slicer, focusing on converting models into print-ready files. Core print settings such as layer height, infill density, print speed, temperature control, supports, and adhesion techniques will also be discussed, providing a clear understanding of the complete 3D printing workflow.

OUTCOMES

By the end of the workshop, participants will:

- Understand how FDM 3D printers work and identify major printer components
- Safely operate and maintain a Creality Ender 3D printer
- Import, inspect, and repair 3D models
- Prepare models for printing using slicing software
- Adjust key print settings such as layer height, infill, supports, and temperature
- Start and monitor a print job
- Identify and troubleshoot common print problems
- Perform basic post-processing on printed prints

SCHEDULE

TIMING	EVENT
09:30 AM - 10:00 AM	Introduction to 3D printing
10:00 AM - 10:45 AM	Creality Ender Printer
10:45 AM - 11:30 AM	Model Inspection & Repair using Meshmixer
11:30 AM - 12:00 PM	Slicing Fundamentals
12:00 PM - 12:30 PM	Live Demonstration

INDIVIDUAL ENTRY ONLY

- THE STUDENTS MUST BRING THEIR ID CARD WITHOUT FAIL.
- STUDENT CAN BRING THEIR LAPTOP - INSTALL THE SOFTWARE BEFOREHAND IF POSSIBLE, ULTIMAKER CURA, MESH MIXER AND CREALITY SLICER
- ALL THE NEEDED STATIONERY STUFF FOR EVERY STUDENT WILL BE PROVIDED

PARTICIPATION CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

REGISTRATION FEES: INR 299/- per head (LUNCH WILL BE PROVIDED)

FOR ANY QUERIES, CONTACT:

JAYARAM

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