

# INTRODUCTION TO 3D PRINTING AND CAD MODELING

future skills  
prime  
A MeitY - NASSCOM Digital Skilling Initiative



The objective of this course is to equip IT and Non-IT Professionals with strong fundamentals in Additive manufacturing. The course explains how additive manufacturing technologies overcome the limitations of conventional manufacturing technologies. This course is aligned to National Occupational Standards (NOS) defined under National Skill qualification framework. **The course is being offered at 50% discount if registered through CoE Cyber Security, JNTUH as a Spoke.**

**DISCOUNT**

**50%**

**Click here for Availing Discount**

- Pay Assessment fee
- Get Assessed
- **Get SSC NASSCOM certification**
- **Get FSP Badge**

~~Course Fee: ₹4000/- (Inclusive of taxes)~~

- Complete the course
- 90 days access

Register

Course Access

Course Completion

Assessment & Certificate

Incentive\*

- **Course Completion letter**

- Upload supportive documents & SSC NASSCOM certificate
- **Claim 50% of course fee and assessment fee as Incentive**

- Visit Future Skills PRIME portal
- Register
- Choose the Bridge Course
- Pay the fee

\*as per Govt guidelines

## ELIGIBILITY CRITERIA

- Students\* of 3rd year and 4th year B.Tech and M.Tech
- Fresh Recruits – Internship / apprenticeship
- Faculty
- Working professionals (IT and Non-IT)
- Employees of Central and State Government

\* They will be applicable for the incentive program only if they have internship / apprenticeship certificate

## SYLLABUS

- Introduction to Additive Manufacturing
- Evolution of 3D printing
- Various 3D printing technologies
- Fused deposition modeling (FDM) in detail
- CAD Modeling
- Creating support less designs
- Optimizing for orientation
- Achieving accuracy and fit
- Prototyping using 3D Printer
- Design guidelines for printing
- Designing assemblies
- converting CAD model to STL format
- Print settings



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### PRE-REQUISITES

- Familiarity with Mechanical Engineering fundamentals.
- Basic CAD knowledge



### CONDUCTION MODE

- Online and self paced learning
- 90 day access to the online content

Upskill now: <https://futureskillsprime.in/course/Introduction-to-3D-printing-%26-cad-modeling>

For further queries contact: [3dprinting@cdac.in](mailto:3dprinting@cdac.in)



Ministry of Electronics & Information Technology  
Government of India



प्रगत संगणन विकास केन्द्र

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