



राष्ट्रीयइलेक्ट्रॉनिकीएवंसूचनाप्रौद्योगिकीसंस्थान,कालीकट
National Institute of Electronics & Information Technology, Calicut

ISO 9001-2015 Certified



सत्यमेव जयते

Ministry of Electronics and
Information Technology
Government of India

On-line Courses Prospectus

Introduction to 3D Printing and CAD Modeling

Starts on 18th July 2023 (90 Hours) (Self Paced)

Course Description

This course introduces Additive Manufacturing Technology as one of the Emerging Technologies. It enables students to choose the best Additive Manufacturing technology for a given application. By the end of this online course the candidates understand how to define essential geometry terms and they relate to 3D Model, create optimized 3D Models, convert 3D models to STL files, slice & build the created model in a 3D printer.

[Click Here to Register](#)

Who can attend?

Manpower in IT/ ITeS/ Non-ITeS sector who are keen to undergo a significant change in their career path.

Fresh graduates who have received offer letter, besides interns and apprentices.

Any under graduate/diploma student with basic knowledge of Design and 3D Printing/ Additive Manufacturing.

- Students pursuing Engineering
- Professionals working on design & development activities and others who would like to develop competency in additive manufacturing
- Research students
- Teaching professionals & faculties
- 3D Printing/ Additive Manufacturing Enthusiasts

Course Content

S. No	Topic
Module1 - Introduction to Additive Manufacturing	
1.	Evaluation of 3D printing
2.	Various 3D printing technologies
3.	Fused deposition modeling (FDM) in detail
Module 2 - CAD Modeling	
1.	Creating support less designs
2.	Optimizing for orientation
3.	Achieving accuracy and fit
Module 3 - Prototyping using 3D Printer	
1.	Design guidelines for printing
2.	Designing assemblies
3.	converting CAD model to .stl format
4.	Print settings

Duration

90 Hours - Self Paced Course (Candidates need to complete the lectures on their own pace ideally **within 1 month**)

Prerequisite

- NIL

Fee and important dates

Fee	Rs. 1000/- (Excluding GST)*
Last date for registration & payment	14th July 2023
Course On boarding	18th July 2023

* Rs.400/- for Course Fee + Rs.600/- for Assessment Fee

Assessment fee shall be reimbursed[#] **once** by NASSCOM after successful completion of the assessment and Certification.

Candidate needs to register in FSPRIME Platform (<https://futureskillsprime.in>) for Fee Reimbursement

Certificate

- A Certification by NASSCOM will be provided after successful completion of assessment.

Government of India Incentive

On successful completion of course and certification by NASSCOM, as incentive 50% of course fee paid will be given back to beneficiaries falling under the below categories:

- IT Employees from IT Firms and Non IT Firms
- Non – IT Employees aspiring to use new and emerging technologies in their respective domains.
- Program would also aim to re skill/ up skill employees whose skills for a particular job have become outdated and may no longer be employed.
- Central Govt. and State Govt. employees, including employees of PSU & Autonomous Bodies would also benefit from the platform.
- Fresh Recruits (who have been offered employment) but are yet to take up a job, as well as those undergoing / selected for Internship & Apprenticeship roles in IT/ ITeS are also expected to derive great value from the program.

For More Details: <https://futureskillsprime.in/govt-of-India-incentives>

Minimum Requirements

- Attendees must have a computer/ Laptop with system configuration – Windows OS 8/10/11, i3/i5, 64bit processor and Minimum 4GB RAM.
- Internet Connection is mandatory.

Faculty Profile

Qualification and experience of the faculty handling the sessions

1. Mr. Leelakrishnan E – Senior Consultant (M.E. CAD/CAM)
2. Dr. Arun Unnikrishnan – Content Writer (PhD Sustainable Manufacturing)
3. Mr. Harikrishnan – Project Engineer (B.E. Mechanical Engineering)

Course Coordinator

E. Leelakrishnan, Senior Consultant, 9176030058(M), 0495 2287266- Exn-209(O),
Email: leelakrishnan@calicut.nielit.in

Terms and Conditions

1. *In case any registered candidate could not attend the online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated.*
2. *In case the online course is cancelled /postponed due to some technical issue at NIELIT side and new date is not convenient to the candidate, our liability is limited to the refund of the course fee and NIELIT shall not be responsible for any consequential damages.*

[Click Here to Register](#)

Autonomous Scientific Society of
Ministry of Electronics & Information Technology,
Govt. of India

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