National Institute of Technology (NIT), Tiruchirappalli

Department of Production Engineering

Announces a Self-Sponsored

Short-Term Course (STC) on

Recent Trends in Additive Manufacturing and DfAM

February 23-27, 2026

Organised by

Department of Production Engineering
National Institute of Technology
Tiruchirappalli – 620 015.
Tamil Nadu, India

Course Coordinator

Dr. S. Vinodh

Course Co-Coordinator

Dr. Vineet Kumar Yadav
Department of Production Engineering
National Institute of Technology
Tiruchirappalli – 620 015
Tamil Nadu, India

SCOPE OF THE COURSE

Additive Manufacturing (AM) has become a key technology of the Fourth Industrial Revolution, enabling industries and R&D organizations to create complex, customized, and high-performance products. With advancements from 3D to 4D printing, AM now supports smart, responsive designs, optimized structures, and sustainable manufacturing practices. Modern developments emphasize Design for Additive Manufacturing (DfAM) Methods such as topology optimization and generative design, data-driven prediction models, sensor integration, and life cycle assessment.

This Short-Term Course (STC) aims to equip participants with the latest advancements in polymer and metal AM, intelligent and data-enabled manufacturing approaches, and sustainable design strategies. Through expert lectures, software demonstrations, and hands-on activities, participants will gain practical insights into AM processes, design methods, and emerging applications across aerospace, automotive, healthcare, and other sectors.

COURSE CONTENTS

- Polymer and Metal Additive Manufacturing processes
- Four-Dimensional (4D) Printing and advanced AM trends
- Data science applications and prediction models in AM
- Smart and sensor-enabled Additive Manufacturing
- Sustainable AM practices and Life Cycle Assessment
- Design for Additive Manufacturing (DfAM), including topology optimization and generative design
- Case studies, applications, and emerging research avenues

COURSE FACULTY

Lectures will be delivered by distinguished faculty from institutions such as IITs and NITs, along with experienced professionals from leading industries.

ELIGIBILITY

Faculty Members from technical institutions approved by AICTE, Ph.D. Research Scholars and PG/UG students are eligible. Participants from industry are also eligible to attend the programme.

REGISTRATION FEE

Participants are requested to initially fill their details in Google form link:

https://forms.gle/jjBEkd3XsdXUkwxN8

Upon confirmation by the Coordinator, Participants are requested to make payment:

Post Graduate/Under Graduate students	**Rs. 1250***
Full-time Ph.D. research scholars	**Rs. 1500***
Faculty members and Industrial participants	**Rs. 2000***

*The registration fee is inclusive of 18% GST
Registration fee to be paid through State Bank collect (State Bank of India)/UPI/Bank Transfer.
Further details regarding registration will be mailed to the participants later from the Coordinator Office.

Participants are requested to upload the proof of payment after making online payment on https://forms.gle/aUnrHvufbAu5e42c9 or send to the email ID: vineet@nitt.edu.

REGISTRATION FORM

Short Term Course on

Recent Trends in Additive Manufacturing and DfAM

February 23-27, 2026

1. Name:

2. Gender (M/F):

3. Qualification:

4. Designation:

5. Department:

6. Organization:

7. Experience:

8. Mailing:
   Address

   Phone:
   Email:

9. Details of Registration Fee Payment
Amount:
Transaction Ref No.:
Date :
Bank name & Place:
Include Proof of transaction

Signature of the Applicant with Date

DECLARATION BY THE APPLICANT

The above-mentioned information is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the Short-Term Course. I shall attend the course for the entire duration.

Place:
Date: *Signature of Applicant*

IMPORTANT DATES

Last date for receiving details in Google Link form:	**09.02.2026**
Intimation from the Coordinator office:	**11.02.2026**
Last date for receipt of proof of payment:	**16.02.2026**
Intimation of final selection (by email):	**17.02.2026**

ADDRESS FOR CORRESPONDENCE

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Tiruchirappalli – 620 015 Tamilnadu, India.

ABOUT THE INSTITUTE

National Institute of Technology, Tiruchirappalli (NIT Trichy), is recognized as one of India's premier engineering institutions, having been established in 1964. Renowned for its academic excellence and state-of-the-art infrastructure, NIT Trichy is committed to advancing cutting-edge research across various engineering, science, and management disciplines. Consistently ranked among the top engineering colleges in the nation, it offers a comprehensive array of undergraduate, postgraduate, and doctoral programs designed to cultivate innovative thinkers capable of addressing complex industrial challenges. Strategically located in the vibrant heart of Tamil Nadu, NIT Trichy fosters an intellectually stimulating environment that encourages innovation and interdisciplinary collaboration. This focus on research creates a dynamic ecosystem where students and faculty engage with real-world problems and cutting-edge technologies, enhancing both educational experiences and professional development.

ABOUT THE DEPARTMENT

Department of Production Engineering at NIT Trichy, established in 1983, is a leading center for academic excellence and research in the fields of manufacturing and industrial engineering. Offering B.Tech, M.Tech, and Ph.D. programs, the department emphasizes modern manufacturing systems, production technologies, and engineering management. Its core areas of expertise include Additive Manufacturing, Sustainable Manufacturing, Robotics and Automation, Industry 4.0, Advanced Materials and Processing, and Operations Research and Supply Chain Management. The Department is equipped with advanced laboratories such as CNC Machining Lab and Additive Manufacturing Lab, facilitating hands-on learning and high-quality research. With a robust emphasis on research, innovation, and industry collaboration, the faculty members of the department have garnered national and international recognition for their contributions to Manufacturing Technology and Industrial Engineering.