



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY
DESIGN AND MANUFACTURING
KANCHEEPURAM

SHORT-TERM TRAINING PROGRAM (STTP) ON

AI ENABLED

DESIGN FOR ADDITIVE MANUFACTURING

DfAM STTP SERIES IV
(ONLINE)

About the STTP

AI has become quintessential tool to optimize and generate designs for increased functional integration, product structure, part geometry and high stiffness designed materials. Today's designers and engineers are tasked with burden of nuanced understanding of the algorithms & methods for AI-enabled design for AM (AI-DfAM).

This course provides a practical approach to understanding of applied design principles and algorithms to optimize existing design or generate a whole new design with fraction of cost compared to conventional design/redesign practices. Automotive, Aerospace, Healthcare and Consumer electronic industries are embracing this new trend design freedom using AI-DfAM tools and techniques.

The participants of this workshop will learn to adopt the best practices to focus early problems in design for AM but also exploit the degree of design freedom with metal and polymer AM processes.

Topics

- Advancement in Design for AM
- Generative AI and Hyper Customization
- Enhancing Topology Optimization Using AI
- Artificial Intelligence Driven Light weighting
- Designed AM materials and process capabilities
- Multimaterials, and Hierarchical Structures.

Registration.

Last Date For

Registration : 12 July 2025.

STTP Dates : 14 - 25, July 2025.

Mode : Online

Registration Fee in ₹ (including 18% Gst)

Students (UG/PG/Research) : ₹ 1,770

Faculty : ₹ 3,540

Industry Professionals/Others : ₹ 8,260

Organizer

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