



Course objectives/Scope

The participants of this course (07 days) will learn the importance of Additive Manufacturing (3D Printing/ Rapid Prototyping/ Green Manufacturing) and its huge role in Global Product Development and Innovation. The participants will learn theory of AM to Compare the traditional versus next generation manufacturing & will learn to have a rich knowledge of 3D printing technologies, devices, capabilities, materials and applications along with various software tools, processes and techniques enabling personal fabrication, on 3D printing & Scanning. The course will help to explore the broad range of 3D printing theory & practice along with applications including Biomedical & Bio-manufacturing, Aerospace, Consumer Products, and Creative Artistry to mention a few. Finally, participants will learn the latest trends and opportunities in Additive Manufacturing, including “personal” 3D printing, localized services, production of parts, mass customization, and how to commercialize new ideas.

Course Content

Introduction to the Basic Principles of Additive Manufacturing/ digital Manufacturing: advantages and limitations of AM technologies AS developing new engineering systems, identifying emerging opportunities in developing products for mass customization.

1. Additive Manufacturing Processes.
2. Design/Fabrication Processes.
3. Designing for Additive Manufacturing.
4. Direct Digital Manufacturing and Distributed Manufacturing
5. Related Technologies: 3D scanning, sintering, Mold-making, Casting, Scanning, rapid tooling (RT) rapid manufacturing (RM).
6. Applications of AM.
7. Future Trends and Directions in Additive Manufacturing, Business Opportunities.
8. Standards and standardization in 3D Printing and the Future of Manufacturing.

This FDP is not just a course; it is a skill building program in new technology area. Anyone interested to enhance their skill in the Additive Manufacturing domain, are welcome to participate.

Speakers

Subject experts will be drawn from premier institution like IITs, NITs, IISc and other reputed research institutes/CSIR Laboratory etc.

This FDP is supported by the scheme “Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)”

About Varanasi

The holy city of Varanasi is the oldest living city in the world which is also known as the Capital of the Spiritualistic world. The city has a great historical and cultural importance. This religious and cultural capital of India is situated at the bank of the holy river Ganges and is famous for temples of Lord Shiva, Buddha (Sarnath) and Sankat Mochan etc. Varanasi is the premiere & mostly place of oriental learning and simultaneously keeping pace with modern advanced knowledge. The vibrant city with its multiple dimensions of knowledge and liberation has a magnetic attraction for people all over the world.

How to Reach

The city of Varanasi is well connected by road, rail and air with all the important cities of India. Regular flights are there from Varanasi to Delhi, Mumbai, Chennai, Hyderabad, Bangalore, Kolkata, Khajuraho and Lucknow. The IIT (BHU) campus is about 12Km from Varanasi Cantt and 20Km from Mughalsarai railway station and 38Km from the Babatpur (Varanasi) airport.

About the Teaching Learning Centre, IIT(BHU)

A new Centre named ‘Teaching Learning Centre (TLC)’ was initiated by the Institute in July 2013 to strengthen the Teaching environment of the Institute & organize several programs to enhance teaching-learning processes at IIT (BHU). It covers all aspects of teaching, pedagogy, laboratory projects, assessment, course delivery, course design, e-learning, sharing best practices in teaching learning, Faculty development programs etc.

Enquires should be addressed to:

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Note:

1. Only Faculty members from any Institution are eligible to register.
2. There is no registration fee for participants.
3. Lodging & Boarding will be provided in IIT(BHU) guest house.
4. Participants need to make their own Travel arrangement.

IMPORTANT DATES

Last date of registration is **July 20, 2017** & selection will be first cum first served basis. Maximum seat available 35.

One Week
Faculty Development Program
 on
Additive Manufacturing: Theory & Practice

July 24-30, 2017



PLEASE REGISTER HERE

<https://goo.gl/forms/yrm2tE6UjsqRKvLJ2>



Organized by
Teaching Learning Centre
Indian Institute of Technology
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