

ADDITIVE MANUFACTURING OF METALLIC AND NON-METALLIC COMPONENTS [AMMNC-2022]

21 - 27 December 2022

About the Institute

Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram is a public institution established in 2007 by the Ministry of Education, Government of India to pursue design and manufacturing oriented engineering education and research. IIITDM Kancheepuram is declared as an Institute of National Importance (INI) by Government of India.

The Institute is presently offering B.Tech programmes in Computer Engineering, Electronics and Communication, Mechanical Engineering and Smart Manufacturing, 5 Dual Degree Programmes leading to B.Tech and M.Tech Degrees, M.Des in Electronic Systems Design, Communication Systems Design, Mechanical Systems Design and inter-disciplinary Ph.D programmes in core and applied areas of engineering.

About the Department

Department of Mechanical Engineering is one of the oldest departments of IIITDM and has grown into its current status with specializations in all the major areas of Mechanical Engineering. Mechanical engineering deals with anything that moves, from the tiniest micro-particle to the largest spacecraft, and even the human body most complex machines. It is the broadest of all engineering disciplines, and interdisciplinary work is key to our department's success. Our flexible curriculum focuses on IT enabled design and manufacturing catering to the needs of the 21st Century.

About the Course

Additive Manufacturing (AM) is an innovative approach to manufacturing, which has proved itself way too efficient and opening a new era for complex designs and lattice structures. AM is a bottom-up manufacturing process that builds parts by stacking one layer over another. It is often called 3D printing which directly prints the object via material addition instead of subtraction in conventional manufacturing methods. This course focuses on the AM techniques for the manufacturing of metallic and non-metallic components with applications.

Contents

Metal and Non-metal AM | Support and Part Complexity | Topology in AM | Biomimetics | AM in Tissue Engineering | AM for Cellular Structure | AM for Reverse Engineering | AM for Medical Devices | 4D AM and Soft Robots | Bio-printing | Corrosion in AM Parts | Metrology for AM |

Contacts for further details:

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Course Duration

The online training program is of 6 days from 21-27 December 2022 (Excluding Sunday).



Experts

Experts from IISc, IITs, and IIITDM will deliver the sessions.



Eligibility

Faculty members, persons from industry and students are eligible for the training program.



Registration Fee (Inc. GST)

Faculty : ₹ 1947/-

Industry : ₹ 2171/-

Student : ₹ 1534/-

Last date for Registration: 18/12/2022



Payment

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