AICTE Sponsored QIP Short Term Course on
Additive Manufacturing of Biomedical and Aerospace Components

Organized by
Department of Mechanical Engineering
Indian Institute of Information Technology Design and Manufacturing Kancheepuram
Chennai- 600127
www.mech.iiitdm.ac.in

During
21st – 26th February 2022
Coordinator
Dr. Pandithevan P

ABOUT THE INSTITUTE
IIITDM Kancheepuram is a Centre of Excellence for technical education and research established in the year 2007 by the Ministry of Education, Govt. of India to pursue design and manufacturing oriented engineering education and research.

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.

The Department of Mechanical Engineering at IIITDM Kancheepuram offers B.Tech. programme in Mechanical Engineering, Smart Manufacturing, M.Tech. programme in Mechanical Systems Design, Smart Manufacturing, and Ph.D. programme in Mechanical Engineering with different areas. Our flexible curriculum focuses on IT enabled design and manufacturing catering to the needs of the 21st Century product making industries.

The faculty members at Mechanical Engineering Department continue research in the core and emerging areas. Machine Design, Thermal and Fluid, Manufacturing are the major research domains. Processing of Composites, Smart Manufacturing, Computational Fluid Dynamics, Robotics, Computational Mechanics, Experimental and Computational Biomechanics, and Surgery Planning are emerging fields in which the faculty members are continuing research.

IMPORTANT DATES
Last date for application : Feb13, 2022
Shortlisting announcement : Feb15, 2022
Confirmation of Participation : Feb18, 2022

For further details, please contact:

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21st - 26th Feb 2022

APPLICATION FORM
Please fill the Google form using the QR code or link given below

![QR Code](QRCode.png)

Link for Registration

Eligible teachers are requested to submit the filled in application (Google form) along with the sponsorship certificate in the format given below on or before Feb 13, 2022

ABOUT THE COURSE:
Additive Manufacturing (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 used in the conventional manufacturing processes. It has proved it’s applications in biomedical, aerospace and manufacturing sectors in general.

COURSE OBJECTIVES
The short term course will focus mainly on the applications of additive manufacturing in making the biomedical and aerospace components with the use of design flexibility to reduce the overall weight with desired mechanical properties.

COURSE CONTENTS
- Different additive manufacturing processes
- AM applications in biomedical and aerospace
- Different post processing methods used in AM
- Effect of process parameters on properties
- Issues related to parts orientation
- Fabrication with tailored properties
- Case studies in biomedical/aerospace

COURSE DURATION
The course duration is one week during 21st to 26th February 2022.

RESOURCE PERSONS
The faculty members from IISc and IITs, and experts from industries.

ELIGIBILITY
Engineering college teachers from AICTE approved colleges are eligible to apply for the course.

REGISTRATION FEE
There is no course fee for the participants.

MODE
The course will be conducted online, and the attendance is compulsory for all the sessions. The course link will be sent to shortlisted candidates (maximum of 100) by Feb 15, 2022.
SPONSORSHIP CERTIFICATE FORMAT

Certified that Dr./Sri./Smt. ................................ is a faculty of our Institute and is being sponsored hereby for attending the QIP short term course on “Additive Manufacturing of Biomedical and Aerospace Components” to be conducted by Department of Mechanical Engineering, IIITDM Kancheepuram in online mode from 21st to 26th February, 2022.

Signature of Sponsoring Authority
(With date and seal)