

**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](http://www.mech.iiitdm.ac.in)**

**During**

**21<sup>st</sup> – 26<sup>th</sup> February 2022**

**Coordinator**

**Dr. Pandithevan P**



**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.

IIITDM Kancheepuram is a Centre of Excellence for technical education and research established to pursue design and manufacturing oriented engineering education and research.

Mechanical engineering deals with anything that moves, from the tiniest micro-particle to the largest spacecraft, and even the human body—one of our most complex machines. It is the broadest of all engineering disciplines, and interdisciplinary work is a key to our department's success. Our flexible curriculum focuses on IT enabled design and manufacturing catering to the needs of the 21<sup>st</sup> Century product making industries.

Mechanical Engineering Department at IIITDM offers progressive technologies in Smart Manufacturing, Additive Manufacturing, Sustainable Manufacturing, Design for Additive Manufacturing, Experimental and Computational Biomechanics, Surgery Planning Algorithm, Advanced Manufacturing, and all other emerging fields in science and technology.

**IMPORTANT DATES**

Last date for application : Feb13, 2022

Shortlisting announcement : Feb15, 2022

Confirmation of Participation : Feb18, 2022

**For further details, please contact:**

**Dr. Pandithevan P**

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**Profile:**

<https://www.iiitdm.ac.in/People/displayProfileFaculty.php?ppthevan@iiitdm.ac.in>

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Course on  
Additive Manufacturing of Biomedical  
and Aerospace Components**

**21<sup>st</sup> - 26<sup>th</sup> Feb 2022**

**APPLICATION FORM**

Please fill the Google form using  
thelink below



[Click the form icon](#)

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 microstructure
- ✓ Issues related to parts orientation
- ✓ Fabrication with tailored properties
- ✓ Case studies in biomedical/aerospace

**COURSE DURATION**

The course duration is one week during 21<sup>st</sup> to 26<sup>th</sup> 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.

**NOTE**

Test will be conducted on the last day and certificate will be issued only to the participants those who are scoring 60 % and above.

## 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 21<sup>st</sup> to 26<sup>th</sup> February, 2022.

**Signature of Sponsoring Authority**

(With date and seal)

IIITD&M  
Kancheepuram