



# SHORT-TERM TRAINING PROGRAM ON CAD/CAM/CAE and AI Driven Medical Technologies for Biomedical Device Development and Translational Research (MedTech BTR 2026)

21 – 26 September 2026



## 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 four-year B.Tech. programmes in Computer Science and Engineering, Computer Science and Engineering with major in AI, Electronics and Communication Engineering, Mechanical Engineering, Smart Manufacturing, Design Engineering, and Engineering Physics. Additionally the institute is offering five-year Dual Degree Programmes, two-year M.Tech. Degree programmes, two-year M.Des. Degree programme, and 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, which is the most complex machine. 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 21<sup>st</sup> Century.

## About the STTP

MedTech BTR 2026 is a short-term training program that trains participants in CAD/CAM/CAE and AI concepts in biomedical device design, development, and simulation. It focuses on transforming ideas into real healthcare applications through 3D design, analysis, prototyping, translational research, and bridging the gap among engineering, medicine, and real-world problems. After completing the course, participants can gain valuable skills that can help them in their careers and stay up-to-date with the latest advancements in the industries. This STTP is offered from the Bio-Excellence in Surgical Technology and Translational Engineering (Bio-ESTaTE) lab of the Department of Mechanical Engineering.

## Contents

Overview of CAD/CAM/CAE, AI, and MedTech | Functional Medical Devices | 3D Printing in Health Care | Robot in Health Care | FEA, AI and Machine Learning in Healthcare | Medical Image Processing | Biomedical Devices | Regulatory and Validation | Translational Research | Case Studies | One Health | Emerging Trends in MedTech |

### For further details, contact:

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## Course Duration and Mode

- 21-26 September 2026
- Hybrid Mode (Online and Offline)



**Experts:** Experts from IITs, IIITDM, AIIMS/JIPMER, and reputed foreign universities will deliver the sessions (**List will be updated**).



**Eligibility:** Faculty members and students from engineering, medical and dental colleges, and persons from industry.



## Registration Fee (Inc. GST)

IN-PERSON (Incl. Snacks and Lunch): Faculty: ₹ 1500 | Student: ₹ 1000 | Industry: ₹ 2000  
ONLINE: Faculty: ₹ 1000 | Student: ₹ 500 | Industry: ₹ 1500

**Last date for Registration: 17/09/2026**

**Digital Certificates will be awarded to participants**

## Payment

Click SBI Collect and follow the steps:

<https://www.onlinesbi.sbi/sbicollect/>

State: Tamilnadu | Educational Institution: IIITDM-EDUCATIONAL EVENTS | Payment Category: **MedTech BTR 2026** | Fill in the details and make payment.

OR

Pay using NEFT/IMPS/UPI

A/c Name: IIITDM-Educational Events;

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**After payment register using the link and upload the receipt:**

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Chief Patron



**Prof. M V Kartikeyan**, Director, IIITDM Kancheepuram

Patron

**Prof. Jayabal K**, Dean-DII, IIITDM Kancheepuram

Co-ordinator

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Bio-Excellence in Surgical Technology and  
Translational Engineering (Bio-ESTaTE) Lab

Department of Mechanical Engineering

Indian Institute of Information Technology

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