



## REFRESHER COURSE

# RECENT TRENDS IN BIOMEDICAL ENGINEERING.



**Indian Institute of Information Technology,  
Design and Manufacturing, Kancheepuram**

### About MMTTC:

The Malaviya Mission Teacher Training Center (MMTTC) at IIITDM Kancheepuram is funded by the Ministry of Education (MoE) under the Malaviya Mission Teacher Training Programme. The mission aims to transform higher education by integrating Indian values and ethos into teaching, research, publications, patents, and institutional development. Established as one among the 116 centers in the country, the MMTTC at IIITDM Kancheepuram focuses on design and manufacturing education. It develops e-learning materials, low-cost laboratory instruction modules, and innovative projects for students and teachers.

### About the programme:

This refresher course on “Recent trends in Biomedical Engineering” is a 12 day online programme focused mainly on discussing the fundamentals and latest advancements in the field of Biomedical Engineering. This program majorly covers the cutting-edge technologies in various fields of Biomedical Engineering facilitating continuous and real time health data monitoring, remote patient care for better treatment and early point of care diagnosis. The integration of artificial intelligence (AI) and machine learning (ML) in delivering predictive diagnosis to address the pressing healthcare challenges will be discussed. This course will offer the insights on basic principles to the novel approaches in revolutionizing the healthcare through expert lectures and experimental demonstration sessions.

**Date:**

**01<sup>st</sup> December to  
13<sup>th</sup> December 2025**

**Mode:**

**Online**

### Topics covered:

- Bioinstrumentation
- Medical imaging
- Biosignal processing
- Biomechanics
- Tissue and Cell Engineering
- Bioinformatics
- AI & ML in healthcare
- Biomaterials
- Biophotonics
- Biosensors
- Nanotechnology
- Medical device regulatory and IPR



### Registration:

1. Register and login as a participant in [mmc.ugc.ac.in](http://mmc.ugc.ac.in)
2. In the dashboard click on "Apply for Other Programmes"
3. Select Apply for "Refresher Course" and from the dropdown select the Programme Name and Center Name as "Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram (01/12/2025-13/12/2025)"
4. Choose the title "Recent Trends in Biomedical Engineering" from the dropdown menu and enter the remaining personal information including year of joining, total years of experience etc.
5. Upload the NOC on Institute/College/University letterhead. Click [here](#) to download the template.
6. Click on Submit to complete the registration process.



### Resource Persons :

The course content will be delivered from a pool of resource persons from leading prestigious academic institutions, research labs and industry.

### Eligibility:

- Faculty members working in universities and colleges that are included under Section 2(f) of the UGC Act are eligible to attend RC.
- This programme shall be taken into consideration for fulfillment of the requirements as laid down in Career Advancement Scheme as per UGC Regulations.

### Coordinators :

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