



## Malaviya Mission Teacher Training Programme (MMTTP)

Indian Institute of Technology Mandi  
Kamand, Mandi, Himachal Pradesh

12 Days Refresher Course on Core Subject & Interdisciplinary  
(residential)

*on*

# Design and Manufacturing of Composites (In-person Mode)

2-14 February, 2026

### About the Course:

The Malaviya Mission Teacher Training Programme (MMTTP) on Design and Manufacturing of Composites is an intensive 12-day residential course hosted by IIT Mandi, aimed at providing participants with a comprehensive understanding of composite materials, their behaviour, and modern manufacturing practices. Structured across 72 contact hours, the programme blends rigorous theoretical modules with extensive laboratory demonstrations and hands-on training.

The course begins with foundational concepts, including classification, applications, and micromechanics of composites, progressively advancing to environmental effects, macromechanics, and damage and failure theories. Dedicated sessions focus on fibre properties, resin systems, and both open and closed moulding techniques. A major highlight of the programme is the exposure to advanced and emerging processes such as Vacuum-Assisted Resin Infusion Microwave Curing (VARIMC), Microwave-Assisted Compression Moulding (MACM), Microwave-Assisted Chemical Recycling (MACR), ultrasonic joining, laser machining, and additive manufacturing for composites.

Participants receive structured laboratory training in extrusion, mechanical testing, NDT, and various microwave-based manufacturing and recycling techniques. The course culminates in modelling sessions using FEA tools, hands-on project execution, seminar presentations, and assessments. Overall, the programme equips faculty members with state-of-the-art skills and pedagogical depth to advance composite manufacturing education and practice.

### Participants Eligibility Criteria

Faculty members working in universities and colleges that are included under Section 2(f) of the UGC Act. The teachers of colleges that do not yet come within the purview of Section 2(f), but have been affiliated to a university for at least three years, will be permitted to participate in the courses. These conditions apply only to Residential Training Programmes/Courses.

### **Application/Registration Procedure**

The participants should first register at <https://mmc.ugc.ac.in/> and create an account.

- After logging in as participant using User ID and Password, from the dashboard, click on “Apply for Guru Dakshita (FIP), Refresher Course and Short-Term Programme/Faculty Development Programme”, next start filling the application form.
- In the application form, select “Apply for” as “Refresher Course on Core Subject & Interdisciplinary (residential)”, next give details of your earlier participation in FIP, next select “Programme Name & Centre Name” as “Indian Institute of Technology Mandi”, later fill in the remaining items and submit the application form.

### **Salient Features of the Course**

- The course will be of one weeks’ duration, with a minimum of 12 working days and 72 contact hours (six hours a day, six days a week). The course will have 48 lectures by resource persons including hands-on sessions, project works and other activities.
- There will be MCQ based assessment examination conducted at the end of the course. This course will be considered for fulfilment of the requirements as laid down by UGC for Career Advance Scheme.
- Application / registration is free of cost.
- Accommodation and fooding will be free of cost during the programme.
- A Certificate will be issued to those who have attended all the sessions and have qualified the Assessment examination.

This course is beneficial for individuals looking to stay updated with current trends in research and improve their overall academic and professional output. After attending the course, the participants will independently and accurately be able to perform better research, writing and analysis.

<b>Programme Director</b>	<b>Course Coordinator(s)</b>
Prof. Atul Dhar	Dr. Sunny Zafar Dr. Himanshu Pathak

<b>Important Dates</b>	<b>Contact</b>
Programme Start Date: 2 February 2026 End Date:: 14 February 2026	mmtt@iitmandi.ac.in
Application Deadline Date: 19 January 2026	

**Relevant Important Links:**

**Step-by-Step Application Guide:**

<https://docs.google.com/document/d/1EMxI1FloM7xTxrNZZv2feOweJsUvNliYOFyDJeabBb-4/edit?usp=sharing>

**User Participant Manual Link:**

<https://mmc.ugc.ac.in/S/MMTTP%20User%20Manual%20Participants.pdf>

**MMTTP Website Link:**

<https://mmc.ugc.ac.in/>