



**MALAVIYA MISSION TEACHER TRAINING CENTRE
INDIAN INSTITUTE OF TECHNOLOGY MANDI**



**Starting Date: 21st September 2026
Ending Date: 26th September 2026
Last Application Date: 16th September 2026**

FACULTY DEVELOPMENT PROGRAM ON

“Advanced Semiconductor Materials and Device Technologies”

MODE	DURATION	ORGANIZER
ONLINE	6 Days	IIT MANDI

About The Course –

The purpose of this course is to provide a comprehensive understanding of advanced semiconductor materials and device technologies that are driving next-generation electronics, optoelectronic, and intelligent systems. With rapid advancements in semiconductor materials, quantum technologies, VLSI design, and device miniaturization, it is essential for researchers and professionals to develop a strong foundation in material properties, device physics, fabrication processes, simulation techniques, and emerging applications. The course is designed to provide participants with insights into semiconductor materials, electronic and optoelectronic devices, quantum and nanoscale phenomena, VLSI technologies, robotics-oriented semiconductor systems, and emerging organic and perovskite-based technologies. It will also cover advanced characterization techniques, including morphological, electrical, and optical analyses, enabling participants to understand the structure–property–performance relationships of semiconductor materials and devices. The knowledge gained through this course will help participants effectively address the challenges and opportunities associated with modern semiconductor research, manufacturing, and technological innovation.

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 are applicable only for Residential Training Programmes/Courses

Salient Features of the Course –

1. The FDP will be of **6 working days and 36 contact hours (six hours a day, six days a week)**.
2. The course will comprise **24 expert lectures**, along with discussions, illustrative sessions and academic interactions.
3. Participant evaluation will be conducted through MCQ-based assessments and presentations.
4. A Certificate will be issued to those who have attended all the sessions and have qualified the Assessment examination.

Important Dates –

Starting Date	Ending Date	Application Deadline Date
21 st September 2026	26 th September 2026	16 th September 2026

NOTE –

1. No Registration Fees.
2. Fill the NOC in the prescribed format.
3. Attendance is mandatory in all the sessions.

Course Coordinator-

Dr. Ranbir Singh

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Programme Director-

Prof. Atul Dhar

MMTTC, Indian Institute of Technology Mandi (H.P)

MMTTC Contact Details-

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Registration Links –

MMTTP Website: [Link](#)

Step by Step Process: [Link](#)

Noc Format: [Link](#)