



Indian  
Institute of  
Technology  
Mandi

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



ज्ञान-विज्ञान विमुक्तये



**MALAVIYA MISSION SCHEME  
TEACHER'S  
TRAINING PROGRAMME**

Starting Date: 5<sup>th</sup> October 2026  
Ending Date: 10<sup>th</sup> October 2026  
Last Application Date: 5<sup>th</sup> September 2026

# FACULTY DEVELOPMENT PROGRAM ON

**“Mathematical Foundations for AI/ML/PINNs with Real-World Applications”**

| MODE        | DURATION | ORGANIZER |
|-------------|----------|-----------|
| RESIDENTIAL | 6 Days   | IIT MANDI |

## About the Course –

The Malaviya Mission Teacher Training Programme (MMTTP) on Mathematical Foundations for AI/ML/PINNs with Real-World Applications is a 6-day intensive FDP in the residential mode hosted by IIT Mandi, designed to provide participants a comprehensive understanding of mathematics, AI/ML and Physics-Informed Neural Networks. The course will begin with foundational concepts in Linear Algebra, Optimization, Fundamentals of Statistics, and Differential Equations (ODE/PDE) required for understanding AI, Machine Learning, and Physics-Informed Neural Networks. Theoretical and computational aspects of ordinary differential equations and partial differential equations necessary for PINNs will also be covered in this FDP. Also, the fundamentals of AI/Machine Learning and Physics-informed Neural Networks will be covered by the eminent speakers. Participants will also receive laboratory training on the numerical solutions of ODE/PDEs, AI/ML/PINNs. There will be a few laboratory sessions on PINNs and Machine Learning as well. The course culminates in hands-on project execution, project writing, and MCQ-based assessments.

## 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 consists of **24 expert lectures**, along with discussions, illustrative sessions, academic interactions, hands-on session, project work, and other learning activities.
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, qualified the Assessment examination and have submitted the project.

## Important Dates –

| Starting Date                | Ending Date                   | Application Deadline Date      |
|------------------------------|-------------------------------|--------------------------------|
| 5 <sup>th</sup> October 2026 | 10 <sup>th</sup> October 2026 | 5 <sup>th</sup> September 2026 |

## NOTE –

1. No Registration Fees.
2. Fill the NOC in the prescribed format.
3. Attendance is mandatory in all the sessions.
4. Shared accommodation, working lunch and tea and snacks will be provided free of cost during the programme.
5. Participants must use their own funds for travel-related expenses.

## Course Coordinator-

**Prof. Muslim Malik**

Professor, School of Mathematical & Statistical Sciences, IIT Mandi.

Contact Mail  – muslim@iitmandi.ac.in

## Programme Director-

**Prof. Atul Dhar**

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

## MMTTC Contact Details-

Contact Mail  – [pammttp@iitmandi.ac.in](mailto:pammttp@iitmandi.ac.in)

## Registration Links –

MMTTP Website: [Link](#)

Step by Step Process: [Link](#)

NOC Format: [Link](#)