

Capacity Building Program for PGT-Physics-2025

This program aims to bridge the gap between higher secondary education and school-level teaching by engaging IIT Mandi professors in the professional development of the school-teachers. Through an integrated approach of theoretical instruction and hands-on experimental training, the initiative seeks to enhance teachers' conceptual understanding and pedagogical skills in science. By empowering educators with updated knowledge, modern experimental techniques, and innovative teaching methodologies, the program aspires to foster scientific curiosity and critical thinking among students. Ultimately, this collaborative effort between academia and the NCERT, Govt. of India is designed to create a sustainable societal impact by nurturing a scientifically informed community and promoting the culture of inquiry-based learning at the grassroots level.

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Day 1 (03/11/2025)

Activity	Time	Venue	Instructor(s)
Inaugural Function	9:00 AM - 10:00 AM	Hall A	School Chairs, CCE Chair, Coordinators
IKSHMA	10:00 AM-11:30 AM	Hall A	One Faculty from IKSHMA
Tea Break: 11:30 AM - 11:45 AM			
Gravitation	11:45 AM - 1:00 PM	Hall A	Dr. Krishna Mohan Parattu krishna@iitmandi.ac.in
Lunch Break: 1:00 PM - 1:45 PM			
Photoelectric Effect and the Dual Nature of Light	1:50 PM – 3:20 PM	Hall A	Dr. Bindu Radhamany bindu@iitmandi.ac.in
Tea Break: 3:20 PM - 3:35 PM			
Work and Energy	3:35 PM - 5:40 PM	North Campus Electronics Lab	Dr. Dube Dheeraj Prakashchand dheeraj@iitmandi.ac.in

Day 2 (04/11/2025)

Activity	Time	Venue	Instructor(s)
Physical World and Measurement	9:00 AM - 10:00 AM	Hall A	Prof. Suman K Pal suman@iitmandi.ac.in
Tea Break: 10:00 - 10:15 AM			
Mechanics, Electricity, and Magnetism	10:15 AM - 1:00 PM	Hall A/ Physics Lab	Dr. Kaustav Mukharjee kaustav@iitmandi.ac.in
Lunch Break: 1:00 PM - 1:50 PM			
Quantum and Classical picture of a Particle	1:50 PM - 3:15 PM	Hall A	Dr. Sudhir Pandey sudhir@iitmandi.ac.in
Tea Break: 3:15 - 3:30 PM			
Atoms and Nuclei	3:30 PM - 5:30 PM	Hall A	Dr. Prabhakar Palni prabhakar@iitmandi.ac.in

Day 3 (05/11/2025)

Activity	Time	Venue	Instructor(s)
Waves and Oscillations	9:00 AM-10:30 AM	North Campus Electronics Lab	Dr. Raj Kiran raj@iitmandi.ac.in
Tea Break: 10:40 - 10:55 AM			
Optics-I	11:00 AM - 1:00 PM	Hall A	Dr. Ravindra Kumar Yadav ravindrayadav@iitmandi.ac.in
Lunch Break: 1:00 PM - 2:00 PM			
Parashar Trip 2:00 - 7:00 PM			

Day 4 (06/11/2025)

Activity	Time	Venue	Instructor(s)
Optics II	9:00 AM - 11:00 AM	Hall A	Dr. Srikanth Sugavanam ssrikanth@iitmandi.ac.in
Tea Break: 11:00 AM - 11:30 AM			
Rigid Body Motion and Electricity	11.00 AM - 1:00 PM	Hall A	Dr. Rahul Vaish rahul@iitmandi.ac.in
Lunch Break: 1:00 PM - 2:00 PM			

DIY Activity	2:00 PM - 4:00 PM	Tinkering Lab	Dr. Rahul Vaish rahul@iitmandi.ac.in
Tea Break: 4:15 - 4:30 PM			
DIY Activity	4:30 PM - 5:30 PM	Tinkering Lab	Dr. Rahul Vaish rahul@iitmandi.ac.in
Gala Dinner (7:00 PM - 9:00 PM)			

Day 5 (07/11/2025)

Activity	Time	Venue	Instructor(s)
Thermodynamics (Zeroth Law, 1st Law)—Demonstrations	9:00 AM - 11:00 AM	Hall A	Dr. Ajay Soni ajay@iitmandi.ac.in
Tea Break: 11:00 - 11:30 AM			
Thermodynamics (Theory)	11:30 PM - 1:00 PM	Hall A	Dr. Harsh Soni harsh@iitmandi.ac.in
Lunch Break: 1:00 PM - 2:00 PM			
Exam	2:00 PM - 3:00 PM	Hall A	
Tea Break: 3:00 - 3:30 PM			
Valedictory and Feedback Session (3:30 - 5:00 PM)			