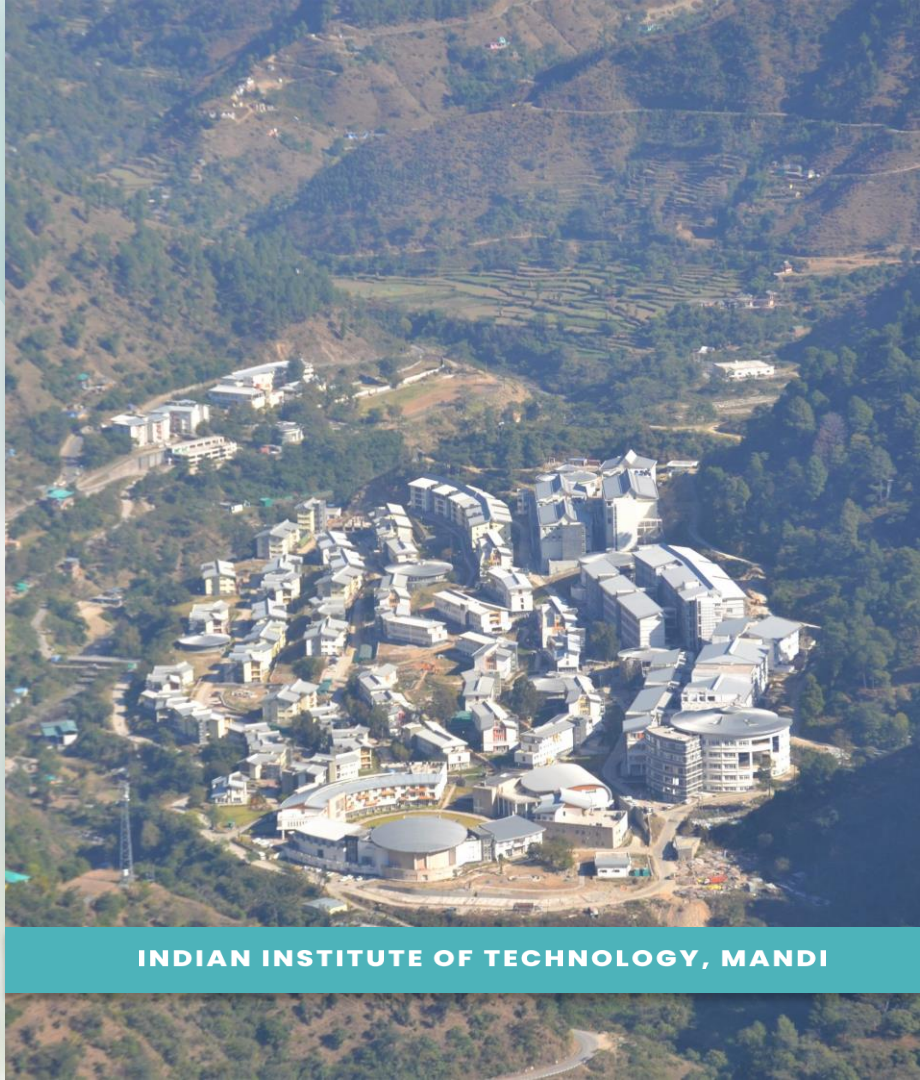
IIT MANDI

PLACEMENT BROCHURE

M.Sc. Physics

2025-26



About IIT Mandi

Indian Institute of Technology, Mandi is a premier public technical and research institute located in the Mandi district of Himachal Pradesh. It was established in 2009 and is recognized as an Institute of National Importance under the Institutes of Technology (Amendment) Act passed by the Indian Parliament in 2012. It imparts to its students a world-class education, a plethora of opportunities to pursue and excel in all kinds of fields and research, and an extraordinary campus life to cherish forever. It's a prestigious and picturesque campus at the foot of the Himalayas.

The institute boasts state-of-the-art infrastructure, excellent campus facilities for all residents and a highly sophisticated array of laboratories and research facilities to support cutting-edge research and scientific pursuits. All these elements come together and mold students into highly competent professionals, technocrats, and leaders of the world.

About Us

SPS Office, A-7 South Campus
Email: spsoffice@iitmandi.ac.in
Phone: 01905-267812

- Established in 2017, the M.Sc. in Physics program at IIT Mandi, M.Sc. and I-Ph.D. programs at IIT Mandi provide rigorous training in core and advanced areas of physics, enabling students to develop a deep theoretical understanding and practical expertise relevant to academia and industry.
- Students gain early exposure to hands-on research, experimental work, and data analysis through interdisciplinary projects and labs.
- Flexible electives allow specialization in areas like quantum computing, photonics, materials science, and computational physics with industry needs.
- The I-Ph.D. program integrates M.Sc.-level coursework with doctoral research, producing candidates with long-term project experience and strong problem-solving skills.

Skills

- Operation and analysis
- Data analysis and data mining
- Electron Microscopy (SEM, TEM)
- Experimental Design & Instrument Calibration
- C++ Programming
- Nuclear Magnetic Resonance (NMR)
- Numerical Analysis

Research Highlights

Magnetization in Iron-based compounds: A Machine Learning Model Analysis

Detector Hardware Development

Anharmonicity in crystalline materials and thermoelectricity

Biophysics and Bio polymers

Cold Atom Physics and Quantum Thermodynamics

Ultra-Peripheral Collisions(UPC)

Cosmological Fluctuations

Research Laboratory

- Powder X-ray diffractometer
- Nuclear Magnetic Resonance
- Spectrometer
- Transmission Electron Microscope
- Confocal Microscope
- Single-crystal X-ray diffractometer
- High-resolution mass spectrometer
- Field emission scanning electron microscopy
- Cyclic Voltammetry
- Photon emission spectrometry
- Liquid N2 Plant
- Stereo optical microscope
- UV-VIS-NIR Spectrophotometer
- Differential scanning calorimeter
- Atomic absorption analysis
- Dynamic light scattering
- Raman Spectrometer
- High-performance liquid chromatography

ACADEMIC PROGRAMS

“Hopfield: the Network and the Nobel” - Dr. K. P. Unnikrishnan (eNeuroLearn, Ann Arbor, MI USA)

“Brain-Inspired Computing Using Magnetic Domain Wall Devices” - Dr. S. N. Piramanayagam (Nanyang Technological University, Singapore)

“Footprints of Chiral Magnetism through Remanence Measurements” - Dr. Ashna Bajpai , Department of Physics, IISER Pune

“Coupling between magnetic and ferroelectric orders through lattice deformations” - Prof. Daniel C. Cabra, Professor, Departamento de Física, Universidad Nacional de La Plata, Argentina

“Exploring the physics of living systems using programmable self-propelled robots” – Dr. Nitin Kumar, Associate Professor, IIT Bombay, Mumbai

“Exploring Quantum Matter Through Transport Phenomena” - Prof. Anindya Das, Indian Institute of Science,

Our Recruiters

- Aakash Educational Services
- Jupiter Solar Power Limited
- Topper Academy
- Allen
- TCS
- IBM
- Accenture
- Sri Chaitanya Academy
- Shikha ‘O’ Anusandhan (SOA)
- Orchids International School
- BYJU’S
- Chegg
- Indag rubber
- Pentair
- SRF
- FIITJEE
- Aspire
- Narayana

Placement Procedure

1. Career and Placement Cell (CnP) , IIT Mandi sends formal invitation and relevant information regarding Campus Placement to the companies

2. Companies can register by filling Internship Notification Form (INF) / Job Notification Form (JNF).

3. Any company, if interested in organizing a Pre-Placement Talk (PPT) can share their request along with relevant details.

4. The CnP cell decides the final placement schedule of tests with companies after mutual discussion and consent.

5. All the appropriate details regarding the company and opportunity offered is shared with students

6. Interested students can apply for the recruitment process through the online portal and thereafter, their resumes are shared with the company.

7. Recruiters can conduct any kind of test or shortlist on the basis of resume before moving forward with the interviews.

8. The company can interview the shortlisted students and finally submit the list of selected students.

Contact Us

Career and Placement Cell, Indian Institute of Technology Mandi
Himachal Pradesh – 175005, India
Email: placement@iitmandi.ac.in
Phone: +91-1905-267006

Faculty Advisor
Career and Placement Cell
Dr. K. V. Uday
Email: advisorcnp@iitmandi.ac.in

Faculty Advisor
M.Sc. Physics
Dr. Amal Sarkar
Assistant Professor
School of Physical Sciences, IIT Mandi
Email: amal@iitmandi.ac.in

Faculty Advisor
Training & Internship (TnI)
Dr. Rahul Shrestha
Email: advisor_tni@iitmandi.ac.in

Student Representative
Rajan Mishra : +91 8700673074
v24043@students.iitmandi.ac.in