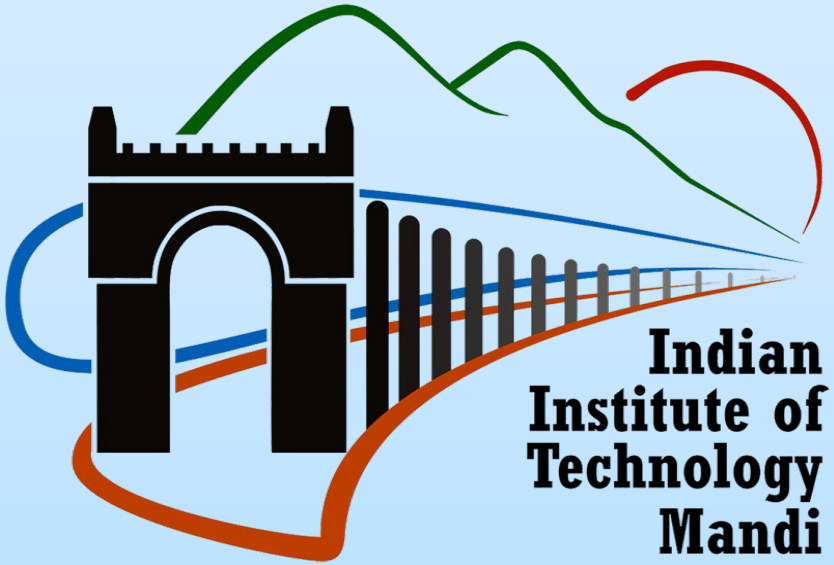
Indian Institute Of Technology Mandi
School Of Mathematical And Statistical Sciences

iitmandi/SMSS/Phd_admission/Adv./Even/2026-27

Date:- 29th October, 2026



Ph.D. Admission (Full-time)
January 2027

Research Areas

Differential equations, Fluid mechanics, scientific computing and imaging

Computational Mathematics, Scientific Computing, and Machine Learning

- **Physics-Informed Neural Networks (PINNs) for Complex flow problems/Financial Modelling:**
  - **Description:** New PINNS architectures will be developed to study complex flow problems like Turbulent flows, Droplet problems, non-Newtonian flows, nanofluids. We also want to develop new PINNS architectures to study quantitative finance, stocks, derivatives.
- **Mathematical Image processing:**
  - **Description:** Mathematical models or hybrid mathematical models will be developed, clubbing with AI/ML, to study image denoising, image segmentation, image defogging, and medical imaging.
- **Numerical Methods for Fluid Flow and Heat Transfer:**
  - **Description:** New higher-order accurate numerical schemes will be developed to study complex fluid flow and heat transfer problems.

Differential Equations, Control, Fluid Dynamics, and PINN

- **Differential Equations.**
- **Mathematical Control Problems**
- **Fluid Dynamics and Physics-Informed Neural Networks**
- **Control Problems and Physics-Informed Neural Networks**

Microfluidics, Biosensing, & Deep Learning

- **Microfluidic Modelling and Its Applications in Paper-Based Point-of-Care Diagnostics.**
- **Deep learning methods for fluid flow at the microscale.**

Research Areas

Optimization and algebraic coding theory

Optimal Control and Dynamical Systems

- Control optimization theory
- Advanced control strategies and efficient optimization algorithms
- Performance, stability and robustness of complex dynamical systems

Algebraic Coding Theory and Noncommutative Algebra

- Algebraic coding theory in the rank metric
- Invariant theory of rank-metric codes
- Non-commutative algebra of skew polynomials

Minimum Eligibility Criteria for Admission to P.hD Program

Eligibility P.hD

Link for more details

Qualifying Degree:

1. Master's or equivalent degree in Mathematics, Statistics, Computer Science or other field relevant to Mathematical Sciences **OR**
2. 4 years - Bachelor's degree in Engineering/Technology or equivalent

For qualifying degree listed above (1) & (2) candidates must also fulfil ONE of the following additional requirements:

1. Qualified GATE / NET including lectureship (Assistant Professorship) or any other equivalent National level examination.
2. Selected through a National level examination conducted by MoE or its agencies /Institutions such as UGC/ IIT/ IISc. / IISER/ IIIT etc.
3. Minimum of TWO years of professional experience (acquired after obtaining the qualifying degree and completed before the starting of the semester in which admission is sought)

***Exemptions from mandatory requirements of valid GATE or National Level examination:**

1. B.Tech/B.E./B.S. (or equivalent) degree from CFTI (Centrally Funded Technical Institute)/ any of the top 100 institutes according to NIRF ranking (overall category) at the time of application/ any Himachal Pradesh Govt. institution or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent
2. BS-MS/M.Sc/MA/MBA/equivalent from IITs, IISERs, IISc, IIMs or any of the top 100 institutes according to NIRF ranking (overall category) at the time of application with a CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.
3. NIRF Ranking (within top 100) should be in the overall category granted for the year during which admission is sought.

For more details about Ph.D./ Part Time Ph.D. Programme at IIT Mandi, please visit:
https://iitmandi.ac.in/pdf/ordinances/Ordinances_PhD_2026_onwards.pdf

The eligibility criteria listed above are the minimum requirements for admission. The institute reserves the right to impose additional eligibility criteria based on the number of applications received. Relaxations will be given as per institute norm.

Application Procedure

How to apply?

Interested candidates are encouraged to fill the online application form available in the following link:

SAMARTH PORTAL: - https://iitmandiadm.samarth.edu.in/admission/index.php

Mode of Interview: The interview will be in offline mode only.

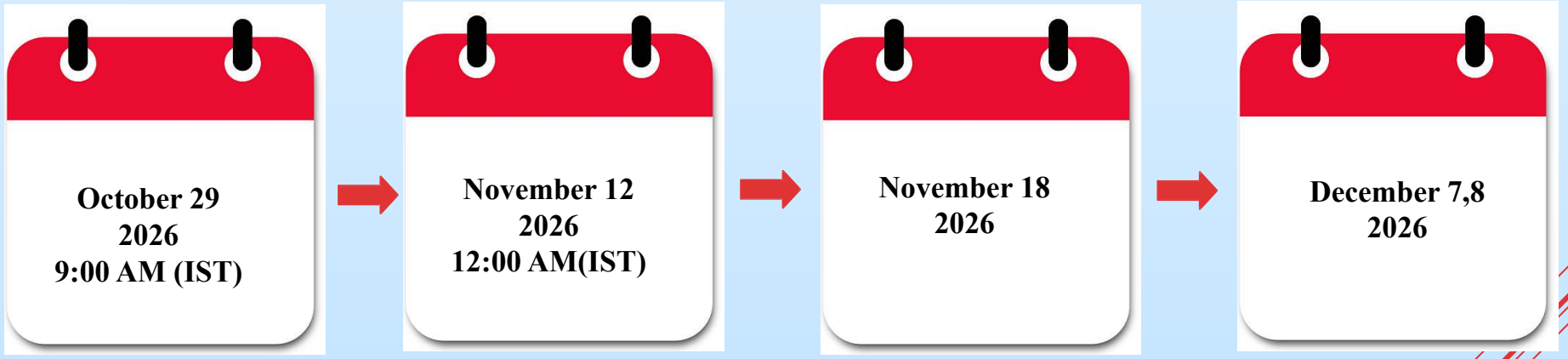
- Reservation policies as per prevailing GOI rules will be followed.
- IIT Mandi reserves the right to admit / not admit for any of the advertised areas and apply appropriate criteria for shortlisting.
- The decision of the competent authority in all matters relating to the eligibility of the candidate, written test/Interview and admission would be final and binding on all the candidates. In case of any dispute/ ambiguity that may occur in the process of admission, the decision of the Institute shall be final.
- All the details furnished in the online application will be treated as final and no changes shall be entertained. Non-submission of valid/required documents and/or incomplete applications shall be summarily rejected.

Application Fee is not refundable:-

Category	Amount in ₹
General/EWS/OBC/OBC(NCL)/Transgender/Foreign Nationals	**200**
Women/SC/ST/PD	**100**

Application Procedure

Important dates



Online Application Starts

Deadline

Announcement of Shortlisted candidates List

Tentative Interview

- **For queries, please reach out to smss_admission@iitmandi.ac.in**
- **For any problems regarding filling up of online applications, please contact it_helpdesk@iitmandi.ac.in**
- **Phone No: + 91 1905 267929**