09.03.2024

Advertisement for Ph.D. Admission ((Regular Full Time mode) in School of Mathematical and Statistical Sciences, IIT Mandi (Odd Semester 2024-25)

School of Mathematical & Statistical Sciences of IIT Mandi invites application for admission to Doctor of Philosophy (PhD) programme in a variety of disciplines and interdisciplinary areas under Regular Full-Time mode.

Minimum Eligibility for Admission in Ph. D .Programme:

S.No	Discipline	Broad Research Areas	Qualification for Admission
1	Mathematics	• Differential Equations and Mathematical Control Problems • Partial Differential Equations and Mathematical Modelling • Differential Equations and Dynamical Systems • Differential Equations with deep learning/ Machine Leaning approach • Frame theory • Wavelet Analysis • Harmonic Analysis • Function spaces • Mathematical Modelling • Algorithms for time series and dynamical prediction • Dunkl Transform • Applied Topology and Combinatorics • Computational Fluid Dynamics • Numerical Methods for PDEs • Classical K-theory • Mathematical Image Processing • Control Optimization Problem	Master's degree in Mathematics/Applied Mathematics/ Engineering/ Technology with a good academic records and also qualified GATE or UGC/ CSIR/ NET or DST Inspire or other equivalent national level examination. **Or** Bachelor's degree holder in Engineering/ Technology from any CFTIs with a minimum CGPA of 7.5 on a10.0-pointscale. **Or** Bachelor's degree holder in Engineering/ Technology from any Non CFTIs with at least CGPA of 7.5 on a10.0-point scale with valid GATE score in relevant subject or other National level exam at the time of admission. **Or** Bachelor's degree holder in Engineering/ Technology and serving for two years or more in a reputed R&D organization and having a proven research record. **Or** B.Tech/B.E./B.S./(or equivalent) degree from CFTI/ any of the top 100 institutes according to NIRF ranking (overall category) at the time of application/ any Himachal Pradesh Govt. institutes or universities with CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent **Or** 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) of equivalent. **Or** NIRF ranking (within top 100) should be in overall category granted for the year during which admission is sought. *Qualification for Admission* to get the HTRA fellowship. https://insite.iitmandi.ac.in/circulars/show.php?ID=IITMandi/Acad/Senate/2023/2196-2201
2	Statistics, Optimization, Fuzzy Logic and Applications	• Applied Time Series Analysis • Climate Change • Indian monsoon rainfall • Extreme events like cloudbursts Data analytics • Numerical Optimization • Heuristic Optimization • Portfolio Optimization • Convex Optimization • Fuzzy Optimization • Credibilistic Portfolio Optimization	
3	Artificial Intelligence, Machine Learning	• Artificial Intelligence • Machine Learning • Machine Learning based Modeling • Support Vector Machine • Neural Networks • Deep Learning • Computer Vision • Algorithmic Trading • High Frequency Trading • Explainable AI • Large Language Models • Generative AI and Applications	

For more details about Ph.D. Programme at IIT Mandi, please visit:

https://www.iitmandi.ac.in/pdf/ordinances//Ordinances_Ph.D.pdf

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/2024/index.php/

<u>**Mode of Interview**</u>: 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:

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

Mode of Payment: SBI Collect Portal.

Applicant should submit fee on SBI collect portal of the IIT Mandi: and submit generated transaction number to the OAS admission application portal. One application fee is valid for the single application. The application fee is non- refundable. Applicant can choose the following steps on SBI Collect Portal to submit the application fee:-

State of Corporate / Institute*: Himachal Pradesh

Type of Corporate / Institute*: Educational Institutes

Educational Institutes Name*: IIT

Select Payment Category*: Application (Admission Fee)

For any problems regarding filling up of online application, please contact it_helpdesk@iitmandi.ac.in .
For any other queries regarding Ph.D. program in SMSS, please contact SMSS Office via following email smssoffice@iitmandi.ac.in.

Employed candidate seeking admission to Ph.D. must have to submit a **"No Objection Certificate"** from their current employer at the time of interview.

Important Dates:

Start of online application:	Saturday, 9th March, 2024.
Deadline for online application	Friday, 5th April, 2024, 11:59 PM (IST)

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