

Discipline of Mathematics, IIT Indore

Admission for Ph.D. Programme

<http://math.iiti.ac.in/>



About Discipline of Mathematics, IIT Indore

Indian Institute of Technology Indore (IIT Indore), located in Madhya Pradesh, is an institute of national importance established by the Government of India in 2009. The Discipline of Mathematics of IIT Indore started functioning in July 2009, introduced its Ph.D. programme in 2010 and M.Sc. programme in 2015. The present faculty members of the Discipline are well equipped to conduct research programme in the following areas of pure and applied Mathematics: Algebra, Harmonic Analysis, Hyperbolic-type Metrics, Quasi-conformal Mappings, Univalent Function Theory, Numerical Functional Analysis, Differential Equations, Numerical Linear Algebra, Stability Analysis for Stochastic Differential Equations, Rough Set Theory, Modal Logics, Wavelet Analysis, Information Theory and its connections to Probability and Statistics, Information Geometry, and Machine Learning. As the institute is rapidly growing, other areas of mathematics research will also soon make their presence at IIT Indore.

Research Groups

Analysis:

Faculty	Research Area
Dr. Swadesh Kumar Sahoo	Geometric Function Theory
Dr. V. Antony Vijesh	Numerical Functional Analysis
Dr. Niraj Kumar Shukla	Frame and Wavelet Analysis
Dr. Ashisha Kumar	Harmonic Analysis
Dr. Vijay Kumar Sohani	Harmonic Analysis and PDE
Dr. M. Ashok Kumar	Divergence Functionals
Dr. M. Tanveer	Fixed Point Theory and Applications

Algebra:

Faculty	Research Area
Dr. Sk. Safique Ahmad	Numerical Linear Algebra
Dr. Anand Parkash	Algebra

Rough Set Theory and Modal Logics:

Faculty	Research Area
Dr. Md. Aquil Khan	Rough Set Theory and Modal Logics

Differential Equations:

Faculty	Research Area
Dr. Sk. Safique Ahmad	Stability Analysis for Stochastic Differential Equations
Dr. V. Antony Vijesh	Differential Equations
Dr. Vijay Kumar Sohani	Harmonic Analysis and PDE

Machine Learning and Signal Processing:

Faculty	Research Area
Dr. M. Tanveer	Support Vector Machines, Optimization & Applications to Alzheimer disease

Information, Statistics, and Probability:

Faculty	Research Area
Dr. M. Ashok Kumar	Information Measures and Divergences, Rényi Entropy, Large Deviations, Information Geometry, Robust Statistical Inference

Eligibility

1. Minimum first class* Master degree in the relevant science discipline with valid NBHM/UGC-JRF/CSIR-JRF/DST-INSPIRE/GATE or Equivalent Fellowship, OR
2. Minimum first class* M.Tech/M.Phil degree in relevant discipline, OR
3. Minimum first class* Bachelor degree in the relevant Engineering/Technology discipline **with a valid GATE score**, OR
4. B.Tech from an Indian Institute of Technology (IIT) with a minimum CPI of 8.0.

*The first class is defined as

- a. 60% marks for GEN/OBC (55% for SC/ST) category in aggregate, OR
- b. CPI/CGPA of 6.0 for GEN/OBC (5.5 for SC/ST) category on the scale of 10; with corresponding proportional requirements when the scales are other than on 10 (for example 4.8 for GEN/OBC category (4.4 for SC/ST) on the scale of 8),OR
- c. A first class as specified by the University/Institute awarding the degree.

Application Procedure

1. Candidates must apply **ONLINE** through the website (<http://academic.iiti.ac.in:8080/nregistration.jsp>). This will generate a unique application number for each applicant.
2. **Application Fee:** 100/- Indian Rupees to be paid through State Bank Collect (<https://www.onlinesbi.com/prelogin/icollecthome.htm>) or through a Demand Draft (DD) drawn in favour of "Registrar, IIT Indore" payable at Indore.
3. After Submitting the application online, the same is to be downloaded and the **signed hard-copy along with the State Bank Collect receipt (or Demand Draft), recent photograph, self-attested relevant copies of certificates, (for SW candidates: No Objection Certificate, Experience Certificate, last 3 months salary slip and Employer's PAN card)** must be sent to the DPGC Convener at the below-mentioned Address for Correspondence. The deadline for receiving off-line/hard-copy submission is 7 days after the expiry of on-line submission of the discipline.
4. The candidate must write his/her name, Discipline of Mathematics and the Application Number on the back side of the Demand Draft.
5. The envelope of the application must clearly mention "Application for Admission to PhD Program in the Discipline of Mathematics".
6. The **short-listed candidates must arrange recommendation letters from at least two referees** with whom the candidate has had academic interaction for at least a year. The candidates should request the referees to send recommendation letters to mathphd@iiti.ac.in.

Address for Correspondence

Dr. Md. Aquil Khan
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Indian Institute of Technology Indore
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Phone No: +91 731 2438 944 & +91 732 4306 506
Email: mathphd@iiti.ac.in

Important Information

This is a rolling advertisement. Applications are invited throughout the year. However, on-line applications submitted by **30 October 2017** and hard copy, along with recommendation letters, received by **06 November 2017** will be considered for the upcoming interview. Information on short-listed candidates and date of interview will be announced in our department homepage as well as intimated to the candidates by email.