భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

DEPARTMENT OF MATHEMATICS

BROCHURE





ABOUT OUR **DEPARTMENT**

The Department of Mathematics is one of the six departments that was founded along with the Institute and offers programmes at the bachelor, master, and doctoral levels. Since its inception, the department has made a conscious effort to grow in sync with the directions of the Institute and an awareness of the larger needs of society. In consonance with this philosophy, the department envisages the following:

"To foster eclecticism and excellence in mathematical education and research which is well poised between abstraction and application."

24
Fulltime Faculty

10
Excellence in Teaching Awards Bagged

80
Unique Courses offered Annually

OUR INFRA

The department is equipped with the required in-house computing power including an integrated-cooling smart rack system hosting multiple GPU servers.







02
of Technical Staff

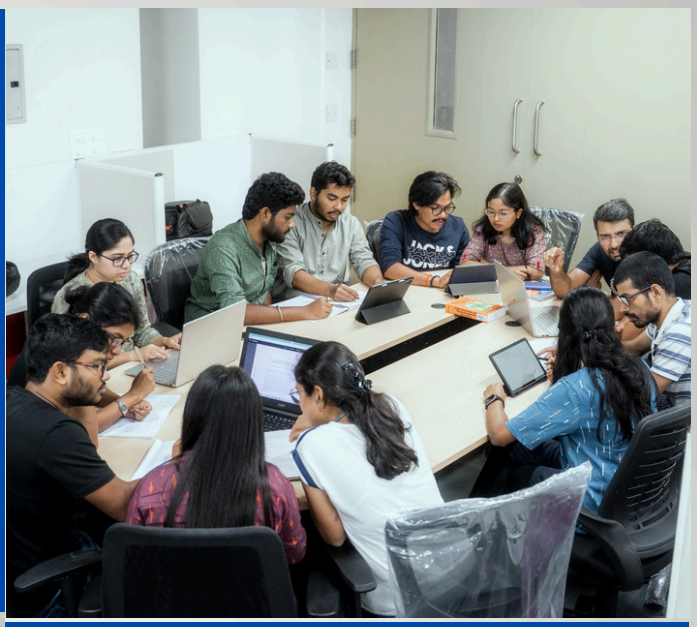
02
of Administrative Staff

PROGRAMS OFFERED

1 Doctoral Program

Inception : 2011

Objective: To cultivate Ph.D. students who will excel as educators, imparting the beauty and intricacies of mathematics. As they progress in their careers, their research on fundamental problems will deepen the collective understanding of mathematical knowledge.





2 M. Sc.

Inception : 2013

Objective: To equip students with both fundamental and advanced mathematical topics, ensuring depth and breadth, making them suitable for careers in academia and industry.

3 B.Tech

Inception : 2017

Objective: To produce engineers who ground their computing concepts in the foundation of mathematical theory, enabling them to make valuable contributions to both academia and industry.



ELIGIBILITY CRITERIA FOR PHD ADMISSIONS

Eligibility Criteria

- Currently, PhD program at IITH takes in students either through the regular route or a special route for sponsored candidates. The eligibility criteria for the applicants to the Ph.D program are laid out in the following:

For Regular Ph.D. Candidates:
Master Degree (Mathematics /Statistics) with a valid Mathematics/Statistics GATE score or UGC-JRF / CSIR-JRF / DST-INSPIRE / NBHM PhD Fellowship.

Special PhD (High CGPA) Admissions

Fellowship: Rs 80,000 for 4 years
Eligibility: BTech/ BE/BS/BDes -students should have final CGPA of 9.0 or above. Students in the 7th semester with a CGPA of 9.0 or above may apply. However, admission will be subject to maintaining a CGPA of 9.0 after the 8th semester & other screening process
Graduating Institutes: from IITs/IISc/IISERs
GATE qualification : Not mandatory.

For More Details, please visit our department website

https://math.iith.ac.in

AREA OF EXPERTISE

- Algebraic Geometry and Applications
- Applied Statistics
- Approximate Reasoning
- Arithmetic Geometry
- Banach Algebra
- Bayesian Statistics
- Biostatistics
- Combinatorics
- Commutative Algebra
- Computational Intelligence
- Computational Statistics
- Differential Geometry
- Fluid Dynamics
- Fluid Mechanics
- Functional Analysis
- Fuzzy Logic Connectives
- Harmonic Analysis
- Mathematical Aspects of Deep Learning
- Matrix Theory
- Number Theory
- Operator Theory
- Partial Differential Equations
- Sparsity-Driven Optimization Technique
- Statistics
- Wavelets

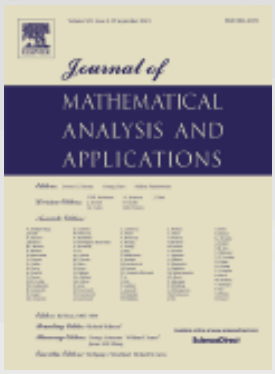
RESEARCH STATISTICS

Pursuant to our vision, the department is well on its way to becoming a world-class center for theoretical, applicable, and interdisciplinary research.

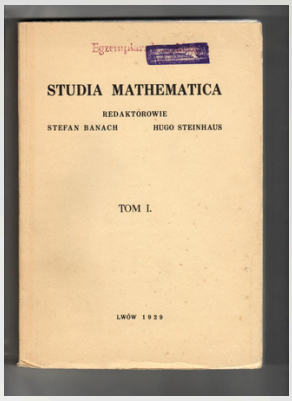
282
PULICATIONS

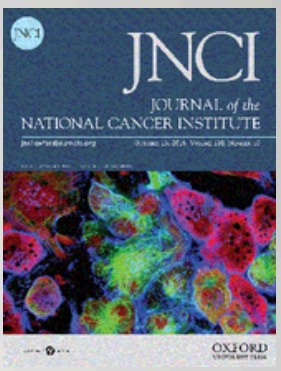
36	2.83 CR	22
Doctoral Graduates since 2015	Research Grant	R&D Projects

VENUES WHERE WE PUBLISH

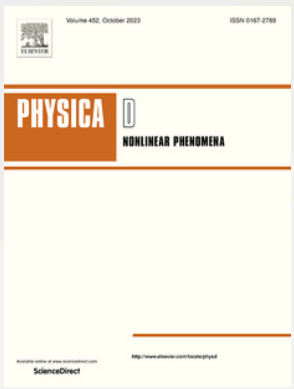




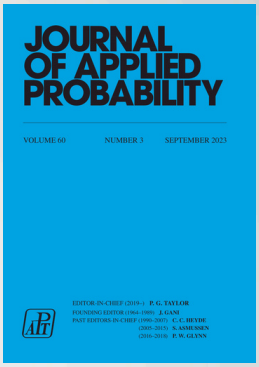












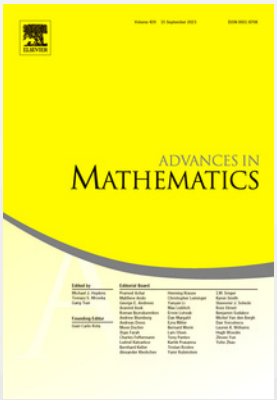








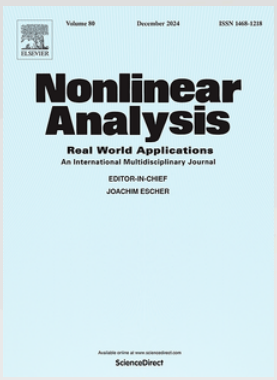


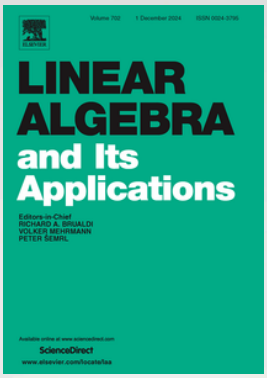






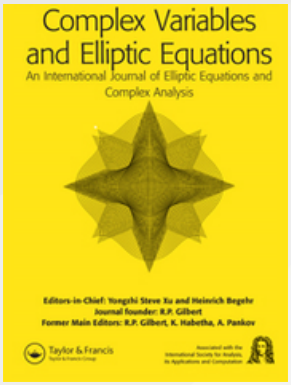
VENUES WHERE WE PUBLISH

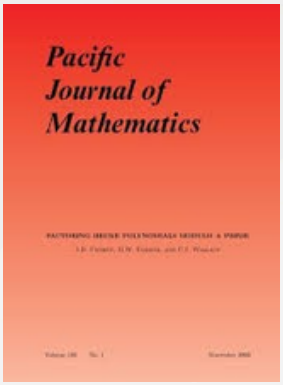




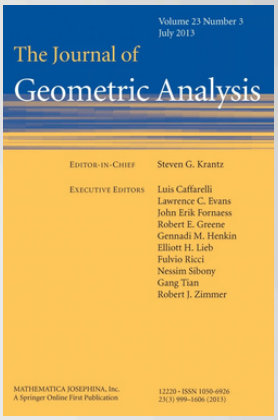






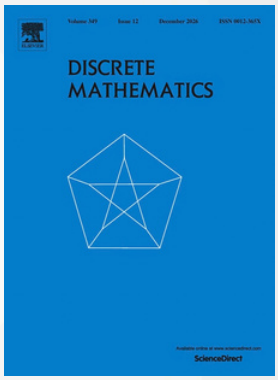


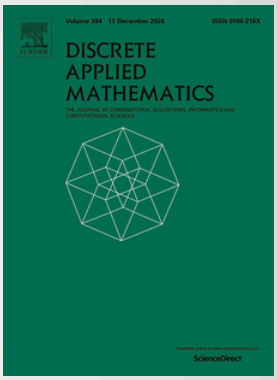


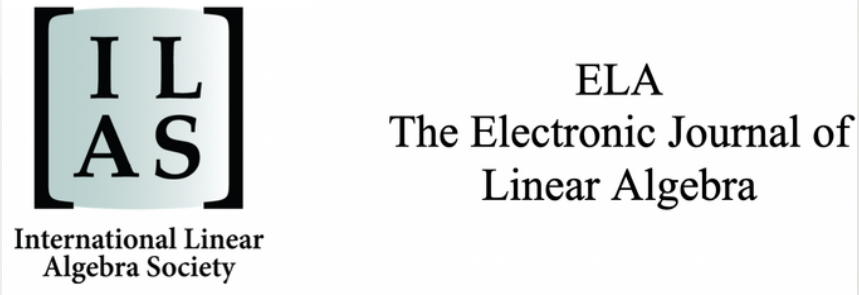












RESEARCH PARTNERS

Faculty members of the department are engaged in an active collaboration with eminent researchers from a spectrum of globally renowned institutions.

- Technical University of Denmark (DTU)
- UiT The Arctic University of Norway
- University of Ottawa
- University of Toronto
- Johannes Kepler University Linz
- The University of Tokyo
- Ritsumeikan University
- Fraunhofer ITWM
- Heidelberg University
- Tokyo Institute of Technology
- Chalmers University of Technology
- University of Milan
- University of California San Diego
- Kyoto University
- University of Montreal

FUNDING PARTNERS

The faculty members of the department are members of active projects and research grants offered by both public and private enterprises.

एन बी एच एम NBHM
राष्ट्रीय उच्चतर गणित बोर्ड
National Board for Higher Mathematics

iNSERB INDIA

सत्यमेव जयते
Department of Science and Technology
Ministry of Science and Technology
Government of India

CSIR INDIA

NPCI
भारतीय राष्ट्रीय भुगतान निगम
NATIONAL PAYMENTS CORPORATION OF INDIA

FACULTY HONORS

Our faculty members are on the panel of editors of reputed journals, project review committees, and resource persons of national level Math programmes conducted by several Govt agencies like NBHM and state science academies.

VISITING POSITIONS / FELLOWSHIPS

- Ritsumeikan University
- University of Toronto
- Alexander von Humboldt Foundation
- University of Montreal

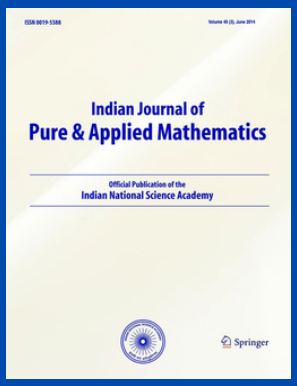
EDITORIAL/ GUEST EDITORIAL POSITIONS













Kybernetika
International journal of Institute of Information Theory and Automation

IEEE TRANSACTIONS ON
FUZZY SYSTEMS
A PUBLICATION OF THE IEEE COMPUTATIONAL INTELLIGENCE SOCIETY

OUR ALUMNI AS FACULTY IN CFI



Dr. Deepika Neela
Assistant Professor,
NIT Warangal



Dr. Geethika Sebastian
Assistant Professor,
NIT Calicut



Dr. Nageswara Rao Vemuri
Asst Prof, Univ of
Hyderabad



Dr. Neeru Bala
Assistant Professor,
IIT (ISM) Dhanbad



Dr. Pradip Sasmal
Assistant Professor,
IIT Jodhpur



Dr. Ramu Naidu
Assistant Professor,
IIPE Visakhapatnam



Dr. P. Santhosh Kumar
Assistant Professor, IISER
Mohali



Dr. Sivarama Krishna
Assistant professor,
NIT Srinagar

MATH FOR SOCIETY



The department conducts a one-day annual symposium on Mathematics to commemorate the birth anniversary of the legendary mathematician Srinivasa Ramanujan. The participants present their recent works and the event is well attended by both research scholars and faculty members from nearby engineering institutions.

Towards giving a fillip to their interests in Mathematics, every summer the department conducts a workshop for nearby Govt school students. The students are typically from the 6th - 8th grades. The entire program is ably handled by the masters and doctoral students of the department, with unhindered support from the institute administration.





The department also conducts a one-day workshop to students of Bachelors in Mathematics programs from nearby Govt colleges. This is done with a main motive of bringing awareness about the higher education opportunities and also to position the different areas of mathematics vis-a-vis their aesthetics and utility.

With the twin aim of exposing them to good trends in the teaching of mathematics and urging them to explore potential avenues for collaborative research, the department conducts a day's workshop to teachers from nearby govt degree colleges. Faculty members of the department actively engage in discussions with them, often presenting some basic topics from different perspectives to enhance their ability to articulate concepts in an immersive and an out-of-the-textbook way.





With a view of both a timely overview of some hot research topics and also towards providing alternative perspectives on well-researched topics that can be beneficial to both lecturers and research scholars, the department has been organising workshops by bringing together reputed mathematicians, young researchers, and graduate students from across the nation for fruitful discussions and exchange of ideas for research collaborations. The event typically includes tutorial sessions, invited talks, contributed talks, poster presentations, round-table and open-problem sessions.

RECENT ACTIVITIES

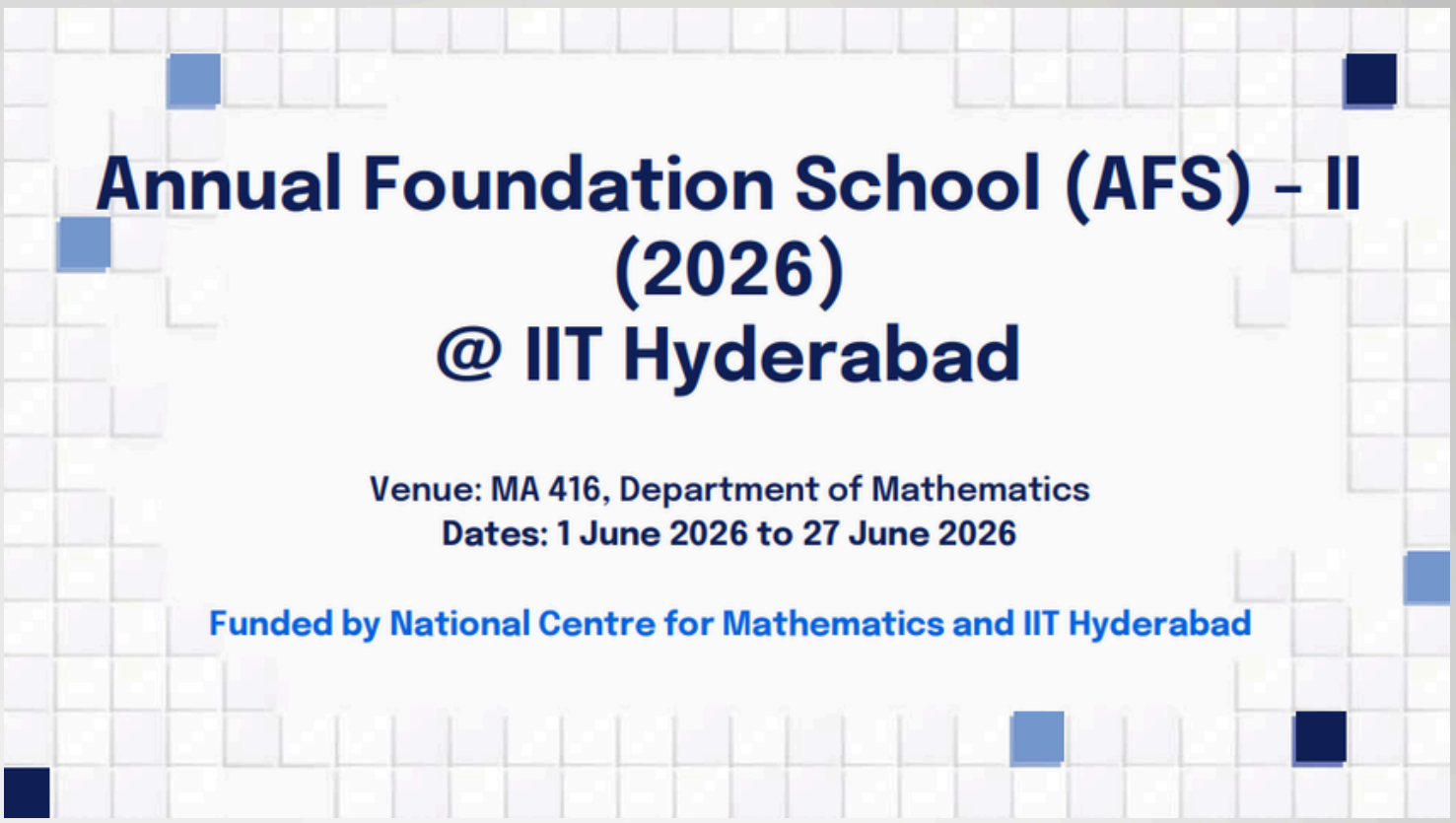


RAAM2026 - July 06-08, 2026

Organizers: Prof. C S Sastry, Dr Vikas Krishnamurthy & Dr Jyotirmoy Rana



RECENT ACTIVITIES



AFS - II - June 01-27, 2026

Organizers: Prof. Narasimha Kumar, Dr Aiyappan S



RECENT ACTIVITIES



CDSDM - 2026 - March 27-28, 2026

Organizers: Dr Arunabha Majumdar, Dr Sayantee Jana, Dr Sameen Naqvi

About the conference

In today's globally competitive arena, Statistics is an essential tool for navigating uncertainty, turning data into a strategic asset, and driving growth. From tracking epidemics to modeling economies, it reveals hidden patterns and generates the crucial insights for a competitive edge. Our conference aims to harness this power by interdisciplinary collaboration between statisticians, data scientists, and industry leaders to solve pressing challenges.

Through this interdisciplinary platform, the conference aims to advance methodological innovation strengthen data-driven decision-making, and promote the integration of statistical science in addressing national and global challenges.

Theme

The conference will deliver focused statistical insights in the following key areas:

- Finance
- Reliability engineering
- Clinical studies
- Genomics
- Methodology

Registration

(For early birds)

Category	Registration Fee*
Students	*Rs 2500*
Academia	*Rs 4500*
Industry	*Rs 6000*

*Registration fee, exclusive of GST, includes in-campus hospitality

Contact Us

cdsdm2026@math.iith.ac.in

https://www.cdsdm2026.com/

Convention Center @ IIT Hyderabad

About IIT Hyderabad (IITH)

IITH is a premier institute of science and technology established in 2008. It has been among the top 10 Indian engineering institutions in the National Institute Ranking Framework (NIRF) ever since NIRF was launched.

IITH creates a unique, holistic ecosystem for education that offers interactive learning, a very flexible academic structure, cutting-edge research, strong industry collaboration and entrepreneurship. This is an environment that enables students and faculty to translate their dreams into realities.



RECENT ACTIVITIES



Collaborative Research Symposium on Mathematics

31st Jan 2026, MA01 and MA02

Organized by the Department of Mathematics



RECENT ACTIVITIES

భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad



National Mathematics Day 2025

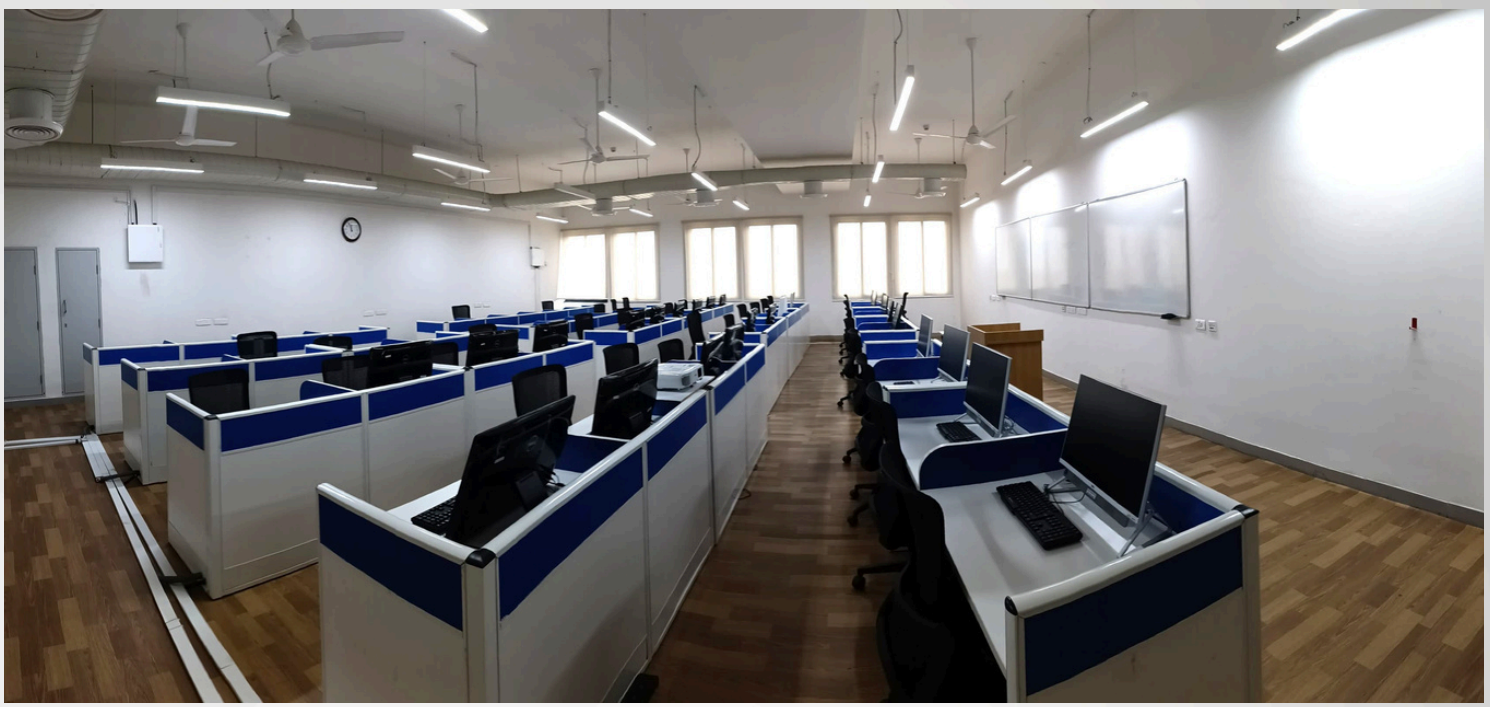
22nd Dec 2025, MA01

Organizers : Dr. Amit Tripati & Dr. M Rajesh Kannan



FACILITIES

MA220 Teaching Lab 1








































ELEVENTH
CONVOCATION
IIT HYDERABAD
CHIEF GUEST
Prof. Subra Suresh
President, NTU Singapore