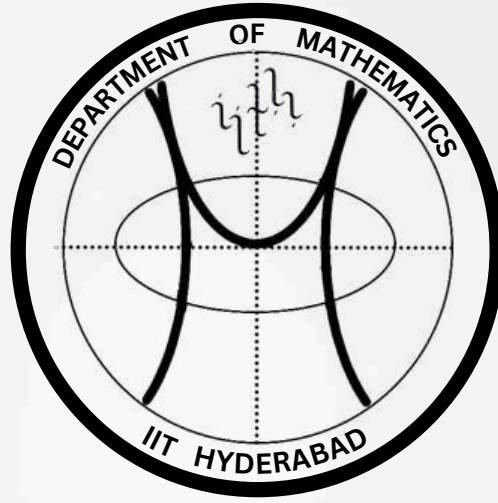




భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

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."

22

**Fulltime
Faculty**

10

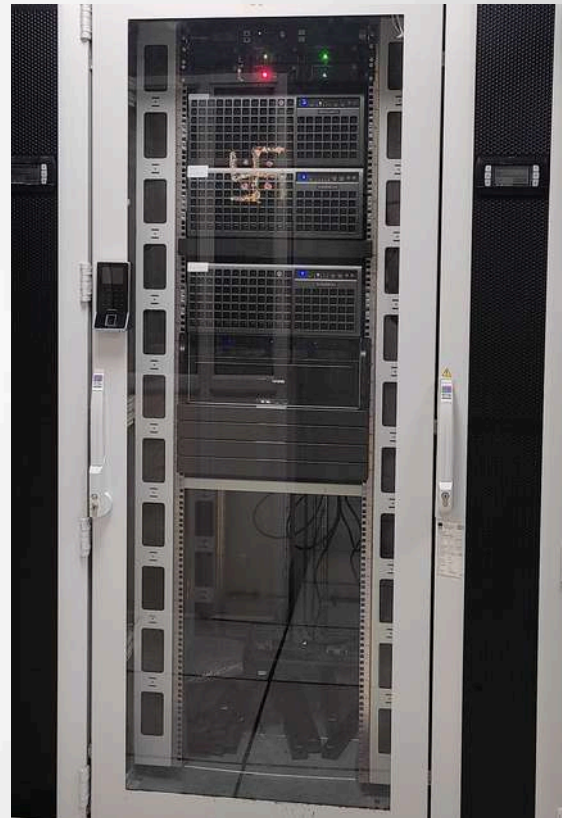
**Excellence in
Teaching
Awards
Bagged**

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

1.5

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 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 statistics

Differential Geometry

Fluid Dynamics

Fluid Mechanics

Functional Analysis

Fuzzy Logic Connectives

Harmonic Analysis

Matrix Theory

Number Theory

Operator Theory

Partial Differential Equations

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

**Doctoral Graduates
since 2015**

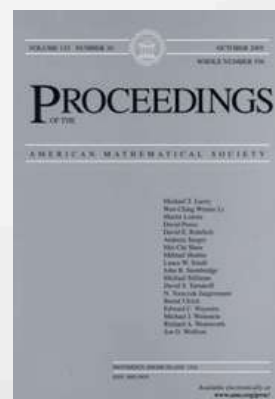
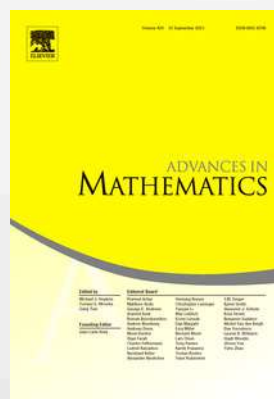
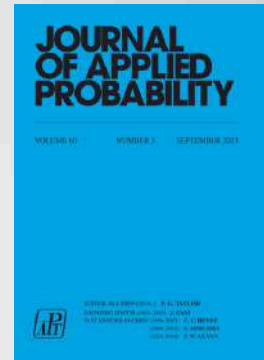
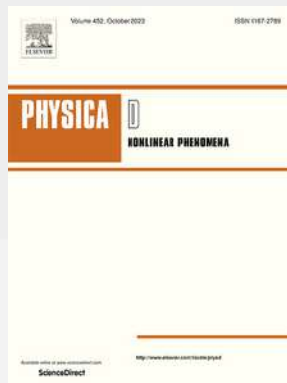
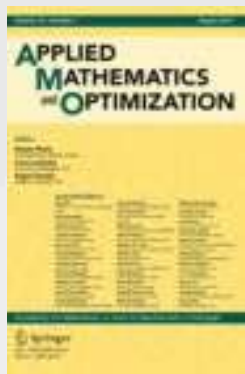
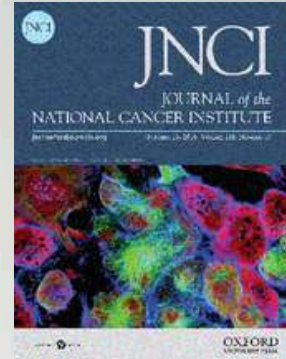
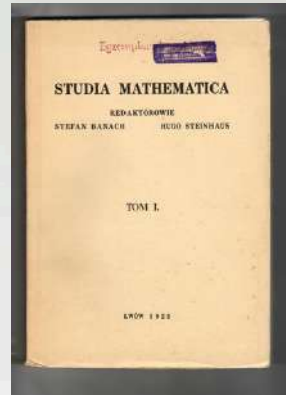
2.83 CR

**Research
Grant**

22

R&D Projects

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

FUNDING PARTNERS

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



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

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,
IPE 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

Collaborative Research Symposium on Mathematics

Participating Institutes

IIT
Hyderabad



University of
Hyderabad



BITS Pilani
Hyderabad



Mahindra
University



Collaborative Research Symposium on Mathematics

31st Jan 2026, MA01 and MA02

Organized by the Department of Mathematics



RECENT ACTIVITIES



National Mathematics Day 2025

22nd Dec 2025, MA01

Organizers : Dr. Bhakti Bhusan Manna & Dr. Amit Tripathi



FACILITIES

MA220 Teaching Lab 1





