



INDIAN
INSTITUTE OF
TECHNOLOGY
(BHU) VARANASI

DEPARTMENT OF MATHEMATICAL SCIENCES

Placement Brochure
2022 -2023

About Us

The Department of Mathematical Sciences at Indian Institute of Technology (Banaras Hindu University), Varanasi was established in 1985. The department runs its own 5 year Integrated Dual Degree Course in Mathematics & Computing. The programme imparts the necessary knowledge of numerical and computational techniques, various topics in computer science, mathematical modelling, simulation, probabilistic and statistical tools and trains students to develop their own computer software for several applications which they may come across in their professional career.

The objectives of the programme are to train students to handle problems in industries through the combined use of mathematical and computer techniques.

Some of the typical courses in the programme are computer system organisation, computer graphics, image processing, programming languages, compiler design, theory of automata, parallel algorithms, optimization methods and applications, statistical methods and algorithms, neural computing, cryptography etc.

Programmes Offered

5 Year Integrated Dual Degree in Mathematics and Computing

The programme started in the year 2005. It imparts the necessary knowledge of numerical and computational techniques, various topics in computer science, mathematical modelling, and simulation, probabilistic and statistical tools. The objectives of the programme are :

- To cultivate a mathematical attitude and nurture the interests,
- To motivate for research in mathematical and statistical sciences,
- To train computational scientists who can work on real life

Ph.D Programme

The Ph.D. Program offers an exciting and unique opportunity to students for pursuing research in several areas of Mathematical Sciences. The vibrant academic environment of the department is nurtured by strongly motivated faculty. The Department faculty takes research initiatives to work in recent and emerging areas. Admission is made twice a year in January and July. Only National Eligibility Test (NET) and Graduate Aptitude Test in Engineering (GATE) qualified individuals are eligible for the admission.

Faculty & Research

- **Dr. Sanjay Kumar Pandey (HOD & Professor)**
Areas of Interest : Digital image processing, Graph Theory
- **Dr. Tanmoy Som (Professor)**
Areas of Interest: Mathematical Modeling, Image Processing, Soft Computing.
- **Dr. Lal Pratap Singh (Professor)**
Areas of Interest: Non-Linear Waves, Computational Fluid Dynamics
- **Dr. Murali Krishna Vemuri (Professor)**
Areas of Interest: Harmonic analysis, Differential Geometry
- **Dr. Rekha Srivastava (Professor)**
Areas of Interest: Fuzzy Topology
- **Dr. Santosh Kumar Upadhyay (Professor)**
Areas of Interest: Distribution Theory, Pseudo differential operator
- **Dr. Santwana Mukhopadhyay (Professor)**
Areas of Interest: Mathematical Modelling, Non-Fourier Heat Conduction
- **Dr. Ashok Gupta (Associate Professor)**
Areas of Interest: Theory of Rings & Modules
- **Dr. Rajesh Kumar Pandey (Associate Professor)**
Areas of Interest: Integral Equations, Spectral Methods & Image Processing

Faculty & Research

- **Dr. Vineet Kumar Singh (Associate Professor)**
Areas of Interest: Operational Matrix Methods, Signal Processing
- **Dr. Rajeev (Associate Professor)**
Areas of Interest: Mathematical Modelling, Moving Boundary Problems
- **Dr. Anuradha Banerjee (Assistant Professor)**
Areas of Interest: Queueing Theory, Stochastic modelling
- **Dr. Debdas Ghosh (Assistant Professor)**
Areas of Interest: Optimization
- **Dr. Lavanya Selvaganesh (Assistant professor)**
Areas of Interest: Graph Theory and Network Sciences
- **Dr. Sunil Kumar (Assistant Professor)**
Areas of Interest: Mathematical image processing, Computer Vision
- **Dr. Divya Goel (Assistant Professor)**
Area of Interest: Analysis of partial differential equations
- **Dr. Abhash Kumar Jha (Assistant Professor)**
Areas of Interest: Spectral Geometry, Analysis on Manifolds, Riemannian Geometry.
- **Dr. Sheela Verma (Assistant Professor)**
Areas of Interest: Number theory and automorphic forms, elliptic and Siegel modular forms, Jacobi forms.

Internships

Over the summers, students undertake internships, either in the industry or in leading academic institutions. This takes education outside the classroom into the offices of corporate or the rooms of their research labs. The previously and to be graduating batch has done internships in a lot of diverse organizations and fields which has helped them gain a lot of academic as well as corporate experience.

Foreign Universities :

- Nanyang Technological University Singapore
- Imperial College of London
- LMU Munich (DAAD-WISE)
- Carnegie Mellon University.

Indian Universities :

- ISI Chennai
- IISc Bangalore
- TIFR Mumbai
- IMSc Chennai
- IIT Hyderabad



Past Recruiters



Contact Us

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