



PLACEMENT BROCHURE

DEPARTMENT OF MATHEMATICS

BIRLA INSTITUTE OF TECHNOLOGY

2024-2025





ABOUT THE DEPARTMENT

The Integrated M.Sc. in Mathematics and Computing at BIT Mesra, established in 2011, blends advanced mathematics with core computer science to meet the demands of modern technology and research. With admissions through JEE Main from 2021, the program has attracted bright minds nationwide, fostering a highly skilled and competitive academic community. It equips students with strong computational skills, algorithmic thinking, and numerical techniques, ensuring they meet the technical demands of the current market.

PROGRAMS OFFERED

UG & PG PROGRAMMES

Five year Integrated M.Sc. programme in Mathematics and Computing

DOCTORAL PROGRAMMES

Ph.D. programme

COURSES

Computer Science

- Machine Learning
- Natural Language Processing
- Data Structures
- Algorithm Analysis
- Database Management System
- Operating Systems
- Computer Networks
- Cloud Computing
- C Programming
- OOPs & Design Patterns
- Cryptography and Network Security
- System Simulation & Modelling
- Software Engineering
- Data Mining and Warehousing
- Computer Graphics
- Automata Theory

Pure & Applied Mathematics

- Probability and Statistics
- Stochastic Processes
- Statistical Computing
- Real Analysis and Measure Theory
- Advanced Complex Analysis
- Number Theory
- Functional Analysis
- Linear Algebra
- Topology
- Modern Algebra
- Operations Research
- Financial Mathematics
- Calculus
- Discrete Mathematics
- Fuzzy Logic
- Numerical Methods
- Differential Equations

RESEARCH AREAS

- **Deep Learning & Neural Networks**
- **NLP & LLMs**
- **Operations Research & Supply Chain Optimization**
- **Quantum Information & Computation**
- **Cybersecurity & Cryptographic Protocols**
- **Computational Finance & Risk Analysis**
- **Big Data Analytics & Statistical Computing**
- **Non Linear Dynamics**
- **Reinforcement Learning & Decision Theory**
- **Mathematical Modelling in AI & Complex Systems**

ACHIEVEMENTS

- Akshat Dubey and Rohit Singh Rathaur won the National level competition EXL EQ2022.
- Siddharth Mishra and Vivek Nigam were selected for the Google Summer of Code(GSoC).
- Yash Khandelwal secured 2nd rank in the Analytics Olympiad 2021 organized by Shiv Nadar University & Analytics India Magazine (AIM).
- Ritika Kumari stood 2nd in Accenture's CTRL+HACK+INSERT Sustainability Hackathon.
- Vaibhav Pathak was awarded Project Grants for open source contribution by Pluto Inc.
- Kanak Raj was a Visiting Researcher at Saarland University, Germany, under the mentorship of the highly renowned Professor Ingmar Weber, contributing to pioneering research in Deep Learning and Computational Social Science.
- Aditya Singh Gaur is building Rookus, a GenAI B2B SaaS platform for AI-generated clothing and phone cover designs, trained on 1M+ images. Serving 7+ B2B clients monthly.
- Amarjeet and Harshit Gupta Achieved the 2nd runner-up position in the Kavach Internal Hackathon.
- Manoj Kumar – Winner of Tech-a-thon, a hackathon by the ECE Society. Competed under Team Tech-Titans in Machine Learning/AI.
- Vaibhav Pathak and Siddharth Mishra reached the Grand Finale of Trust Lab CTF 2023 at IIT Bombay.
- Oshang Surtani serves as the Lead for GDSC, while Manoj Kumar, Aditya Raj, and Ritesh Kumar hold the position of Presidents for the Society for Data Science, BIT Welfare, and the Dance Club, respectively, exemplifying exceptional leadership and organizational expertise.
- Students actively participate in online coding contests and mentor peers through clubs like GDSC and Data Science via workshops and boot camps.

INTERNSHIP & PLACEMENT

Microsoft
Goldman Sachs
Visa
Deloitte
KPMG
PwC
American Express
Cisco
Morgan Stanley
Moody's Corp
MSCI
TCS
Wipro
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SAP Labs
Tata Motors
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Mu Sigma
Futures First
EXL
Coding Ninjas
Hangout Store
Intuent Inc
Iris Aerial
Blackberry
Grid Dynamics
Truminds
Miebach
Fastenal
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MiQ
Mfine
Fynd
Capital Float
Tredence
ZScaler
Genpact
Fractal
IISc Bangalore
IIT Bombay
Azim Premji Foundation
SignalX
Lively
Foma
Zenant
Stemmed Edvocations
Frappe
Crio
Sigfyn
Edunet Foundation
HireKarma

OUR RECRUITERS

SWE



FINANCE & ANALYTICS



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