

# One Day National Workshop On “Mathematical Sciences & its Application in Data Science & Machine Learning” (MSADSML - 2025)

20th March 2025



Organized by: Department of Mathematics

Birla Institute of Technology, Mesra,  
Patna Campus

Patna, Bihar 800014



Supported by:

Bihar Council on Science & Technology  
(Science, Technology & Technical  
Education Department, Government of  
Bihar)

IGSC - Planetarium, Bailey Road,  
Patna - 800001

## ABOUT BIT MESRA, PATNA CAMPUS

The Birla Institute of Technology (BIT) Mesra, one of the oldest Institute of Technology in independent India, founded in 1955 by the visionary industrialist and philanthropist Mr. B.M. Birla. BIT Mesra is located in Ranchi, the capital of the State of Jharkhand,

Established in 2006, Birla Institute of Technology (BIT) Patna is an extension campus of BIT Mesra, Ranchi. Since its inception, it has consistently grown, setting new academic benchmarks. As the first of its kind, the Patna campus is dedicated exclusively to Engineering, Technology, and Management.

## ABOUT DEPARTMENT OF MATHEMATICS

The Department of Mathematics at BIT Patna conducts mathematics course across various branches of Engineering, Management, Bachelor of Computer Applications (BCA), and the Ph.D. program. The faculty members are actively engaged in research and development activities, contributing to advancements in mathematical sciences. The department is well-equipped with a modern computer center featuring the latest scientific software, including MATLAB, MathCad, Minitab, SPSS, and more, to support academic and research endeavors.

## RESOURCE PERSONS :

The event will feature esteemed speakers from both academia and industry, offering valuable insights and expertise.

## ABOUT THE WORKSHOP

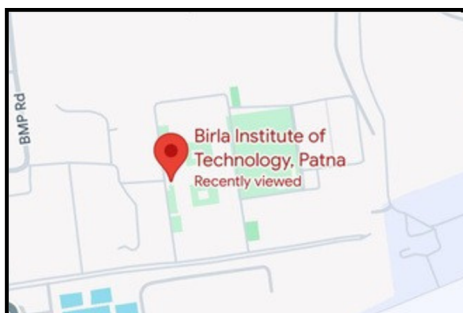
The Department of Mathematics at Birla Institute of Technology (BIT) Mesra, Patna Campus, is organizing a one-day National Workshop on Mathematical Sciences and Its Applications in Data Science and Machine Learning on March 20, 2025.

The workshop will cover a diverse range of topics, including:

- Mathematical Foundations of Machine Learning
- Statistical Methods in Data Science
- Optimization Techniques for Machine Learning
- Probability and Stochastic Processes in Data Analysis
- Linear Algebra and Its Applications in Data Science
- Calculus and Differential Equations for Modeling and Simulation
- Big Data Analytics
- Artificial Intelligence and Deep Learning
- Applications of Machine Learning in Various Domains (Healthcare, Finance, etc.)
- Recent Advances in Mathematical Theories for Data Science.

## PROGRAM SCHEDULE

DATE 20/03/2025	TIME
REGISTRATION	9:00 AM to 10:00 AM
FINAL SESSION	10:00 AM to 10:30 AM
HIGH TEA	10:30 AM to 11:00 AM
1 <sup>ST</sup> SESSION	11:00 AM to 01:00 PM
LUNCH	1:00 PM to 2:00 PM
2 <sup>ND</sup> SESSION	2:00 PM to 4:00 PM
VALEDICTORY	4:00 PM to 4:30 PM
HIGH TEA	4:30 PM to 5:00 PM



## HOW TO REACH BIT PATNA

BIT Patna is located opposite of B.V. College, near JPN Airport, Patna, Bihar 800014

- By Air: Patna Airport (Jay Prakash Narayan Airport) is the closest, with taxis available to BIT Patna Campus. It is only 2.7 km away. By
- Train: Patna Junction is the nearest railway station only 7.2 km away.

## REGISTRATION LINK:

Registration Form Source: Google Docs Shared via the Google app  
[https://docs.google.com/forms/d/e/1FAIpQLSefiX4NHRVUPRsk-X7Za5yo-r0oKJPKqXZ-\\_2gllI3insMwcJg/viewform](https://docs.google.com/forms/d/e/1FAIpQLSefiX4NHRVUPRsk-X7Za5yo-r0oKJPKqXZ-_2gllI3insMwcJg/viewform)



9415365546- Dr. Prakash Chandra Srivastava  
7042356825- Dr. Akmal Raza

## PATRON

Prof. (Dr.) Indranil Manna Vice-Chancellor, BIT Mesra, Ranchi

## CHAIRMAN

Prof. (Dr.) Anand Kumar Sinha  
Director, BIT Mesra, Patna Campus

## CONVENOR'S

Dr. Prakash Chandra Srivastava  
Department of Mathematics, BIT Patna

Dr. Premlata Singh  
Department of Mathematics, BIT Patna

## ORGANIZING SECRETARY

Dr. Akmal Raza  
Department of Mathematics, BIT Patna

## ADVISOR'S

Dr. Abhinav Tandon  
HOD, Department of Mathematics, BIT Mesra, Ranchi

Prof. Saral Kumar Jain  
Department of Mathematics, BIT Mesra, Ranchi

Prof. Soubhik Chakraborty  
Department of Mathematics, BIT Mesra, Ranchi

Prof. S. Padhi  
Department of Mathematics, BIT Mesra, Ranchi

Dr. Peeyush Tewari, Associate Prof.  
Department of Mathematics, BIT Mesra, Ranchi

Dr. Anjana Pradhan Ghorai, Associate Prof.  
BIT Mesra, Deoghar Campus

Dr. Gurminder Singh, Associate Prof.  
BIT Mesra, Jaipur Campus

Dr. ILA Sahay Dayal, Associate Prof.  
BIT Mesra, Noida Campus

## WHO CAN PARTICIPATE :

- Faculty members from engineering and polytechnic institutions
- Research Scholars/Industry Professionals
- UG/PG students
- Mode of Workshop : Physical

## TARGET AUDIENCE:

Students:- UG/PG/Research Scholars  
Members:- Faculty & Industrial Professionals

## REGISTRATION FEES:

- Industrial Professionals : ₹1000/-
- Faculty Members : ₹800/-
- Ph.D. Students: ₹600/-
- UG/PG Students: ₹300/-

## SEAT AVAILABILITY:- 100

70 seats for UG/PG/ Ph. D students  
30 seats for faculty/industrial participants

REGISTRATION WILL BE ON FIRST COME FIRST SERVE BASIS.

**MODE OF FEE PAYMENT(ONLINE)-**  
NEFT, IMPS, UPI

## BANK DETAILS:

Name: Birla Institute of Technology  
Bank: Punjab National Bank  
Raja Bazar, Patna - 800 014  
A/C No.: 4458002100001452  
IFSC Code: PUNBO445800