



# Teacher's Enrichment Workshop On

## “Mathematical Foundations of Data Science”

Organized by

Department of Mathematics

Jaypee Institute of Information Technology, Noida

(Declared Deemed to be University under Section 3 of UGC Act 1956)

(March 20-April 1, 2023)

### About the Institute

Jaypee Institute of Information Technology (JIIT), Noida was established in the year 2001 and has been declared as a “Deemed to be University” under Section 3 of UGC Act 1956. The university is accredited by the National Assessment and Accreditation Council (NAAC) of the UGC. The undergraduate and post graduate programs of the university have been approved by AICTE and UGC. JIIT's state-of-the-art, environmentally conditioned campus comprises smart buildings with Wi-Fi connectivity covering the academic block, business school cum research block, faculty residences, student hostels and Annapurna. JIIT has been constantly ranked amongst the top engineering college in Delhi NCR. Recently, it has been ranked among top Engineering Colleges in India by NIRF (MHRD) Rankings. For more info visit: <http://www.jiit.ac.in>

### About the Department of Mathematics

Mathematics plays a key role in the development of modern sciences, engineering, management and many other important areas. With this aim in mind the Department of Mathematics was created from the very inception of the institute. Besides catering to the basic needs of the various B.Tech./ M.Tech. /M.Sc/ B.Sc. programs of the institute, it had a strong fervor towards research and development from the very beginning and efforts are being made for the convergence of Mathematics with other disciplines by introducing courses of interdisciplinary nature such as Fuzzy Sets and Systems, Information Theory and Coding, Fractals and Chaos, Finite Element Methods, Optimization Techniques etc. The Department is also actively involved in its own research and development activities through its B.Sc., M.Sc. and Ph.D. Programs. For more info visit: <http://www.jiit.ac.in/mathematics-0>

### About the Workshop

Data creates magic. We are living in the age of the fourth industrial revolution. This is the era of Artificial Intelligence and Big Data. There is a massive data explosion that has resulted in the culmination of new technologies and smarter products. Data Science churns raw data into meaningful insights. Therefore, industries need data science. Data Science combines different fields of work in statistics and computation in order to interpret data for the purpose of decision making. Mathematics has gained a greater significance in the field of the latest technologies like Machine Learning, Artificial Intelligence, Data Science, Deep Learning, and many more technologies. Every new technology in today's world is directly or indirectly related to Mathematics. At present, Mathematics is ruling the world like a monarch through its applications in diversified fields. The objective of this workshop is to explore multidimensional significance of mathematics as backbone to Data Science that enhances the beauty of research and science.

### Resource Persons

The sessions in the workshop will be delivered by eminent personalities and experts in the respective scientific tools from reputed academic institutions and universities.

### Mode of Workshop

The sessions will be conducted in **online mode** via **Google Meet**.

### Who can participate?

The program is open to all Research Scholars/ Faculty Members/ Scientists/ Engineers working in Educational Institutes/ Industries/ R&D organizations. Participants are advised to keep laptops for hands-on practice during the sessions.

### Registration Fee

Industry personnel	Rs. 500
Academicians	Rs. 300
Research Scholars	Rs. 100

### Bank Details for NEFT

Bank Name:	ICICI Bank
Bank A/c Name:	Jaypee Institute of Info. Tech.
Account Number:	JITTEW2023
Branch Name:	CMS Mumbai
IFSC code:	ICIC0000104

Participants can pay the fees by online mode NEFT/IMPS only.  
(Note: 1. UPI Payment through wallet not applicable,  
2. For ICICI bank user, add payee under “Other Banks”.)

### Important Dates

Last date for Registration **28<sup>th</sup> February 2023**

Display of List of Selected Participants (Limited Seats) **10<sup>th</sup> March 2023**

### How to Apply?

The interested persons after payment can register through the link: <https://forms.gle/SRR7c2cc8C8GwoTL8>

### Convener

**Prof. Alka Tripathi,**  
Head, Department of Mathematics

### Program Coordinators

**Dr. Amita Bhagat and Dr. Mohd. Sarfaraz**  
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