



**Atal Bihari Vajpayee Indian Institute of  
Information Technology and Management  
Gwalior**



**3-Days Workshop  
on  
Multivariate Data Analysis and Mathematical  
tools for Sciences, Engineering and  
Management (Hybrid Mode)**

20-22 May 2024

**PATRON**

**Prof. S.N. Singh**  
*Director, ABV-IIITM Gwalior*

**CONVENERS/COORDINATORS**

*Dr. Pragya Shukla*  
*Dr. Ajay Kumar*

**ORGANIZING COMMITTEE**

- Prof. Joydip Dhar
- Prof. Anurag Srivastava
- Prof. Pankaj Srivastava
- Dr. Anuraj Singh
- Dr. Jeevaraj S.
- Dr. Kapil Kant
- Dr. Purnendu Mishra
- Dr. Anuwedita Singh

**RESOURCE PERSONS**

- Prof. Neeraj Misra (IIT Kanpur)
- Prof. Sanjeev Kumar (IIT Roorkee)
- Prof. Partha Pratim Roy (IIT Roorkee)
- Prof. Sumit Kumar (IIM Udaipur)
- Prof. R.K. Pandey (IIT BHU)
- Prof. Gnaneshwar Nelakanti (IIT KGP)
- Dr. Manoj das (IIITM Gwalior)

**ABOUT THE DEPARTMENT**

The Department of Applied Sciences was established in July 2022 however, it is renamed as Department of Engineering Sciences in June 2023. The Engineering Sciences faculties are teaching and doing research in this institute since 2006 with a clear motive to equip the Science, and Engineering students with fundamental and engineering concepts of Mathematics and Physics.

**ABOUT THE INSTITUTION**

Atal Bihari Vajpayee - Indian Institute of Information Technology and Management, Gwalior (ABV-IIITM Gwalior), an institute of national importance, established by the MHRD, Government of India. ABV-IIITM Gwalior is the foremost institution providing Technical and Managerial Education in the areas of Information Technology and Management, in India. The only institution of its kind in India, IIITM is at the vanguard of imparting superior quality higher education and pertinent skills.

**OBJECTIVE OF THE WORKSHOP**

The objective of the workshop on "**Multivariate Data Analysis and Mathematical Tools for Sciences, Engineering and Management**" is to equip participants with the knowledge and skills necessary to effectively utilize advanced mathematical and statistical techniques for analyzing complex datasets in science, engineering and management contexts. Participants will learn multivariate data analysis through hands-on exercises, discussions, and practical applications. They'll also learn mathematical tools like (wavelets and polynomials) to solve real-world problems like (ODE/PDE/IE) and optimize processes in different fields. This will help them extract meaningful insights and make informed decisions. By the end of the workshop, attendees will be able to confidently apply multivariate data analysis, wavelet tools, polynomial tools and linear discriminant analysis to solve real-world problems, enhance performance, and drive innovation in their respective fields.

**ELIGIBILITY**

The programme is open to UG/PG Students, Research scholars/Post-Doc and faculties from all Institutes. Industry personnel working in the concerned/allied discipline may also apply.

**REGISTRATION**

**For registration, please fill the Google form:**

<https://forms.gle/CudyFZM3SEZm2tcM6>

**Last Date of Registration: Extended Upto  
10th May 2024**

*Registration Fees of offline Participants INR Rs. 750/- (Including Lunch and Breakfast)*

*Registration Fees of online Participants INR Rs. 500/-*

**Bank Account Details:**

*Account Name: ABV-IIITM FDP ACCOUNT*

*Address: Bank of India, IIITM Campus, Gwalior*

*Account No.: 945210110009380*

*IFSC: BKID0009462*

*MICR: 474013010*

**"Please register early as seating is limited."**

**ACCOMMODATION**

Accommodation will be provided as per request.

**CONTACT DETAILS**

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