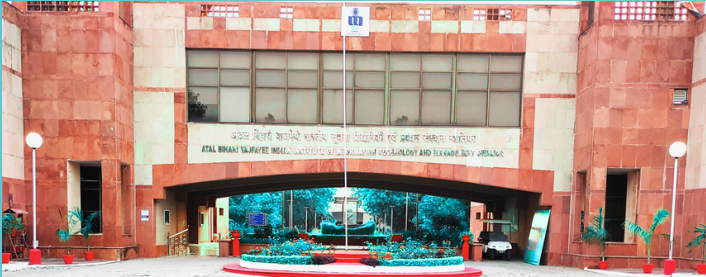




# Atal Bihari Vajpayee Indian Institute of Information Technology and Management Gwalior



## 5-Days self-sponsored Workshop on

## FOUNDATIONS OF COMPUTATIONAL MATHEMATICS AND SCIENTIFIC MACHINE LEARNING

05-09 Dec 2025

### PATRON

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

### CONVENERS/COORDINATORS

**Dr. Pragya Shukla**  
**Prof. Joydip Dhar**

### RESOURCE PERSONS

- Prof. Vineet Kumar Singh, IIT BHU
- Prof. Anil Kumar Tripathi, IIT BHU
- Prof. Mani Mehra, IIT Delhi
- Prof Santanu Saha Ray, IIST Shibpur
- Dr. Rakesh Kumar IIT Mandi
- Mr. Miguel Liu , Stanford University,USA
- Dr. Sumit, IIIT Vadodara
- Dr. Rahul Maurya, Allahabad University
- Dr. Shivang Agarwal, BITS PILANI, Dubai
- Dr. Maneesh Kumar Singh, Imperial College London,UK
- Dr. Sarswati Shah ,George Mason University,USA
- Dr. Anshima Singh, The University of Manchester,UK

### 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.

### OBJECTIVES OF THE WORKSHOP

- Introduce participants to advanced numerical methods such as **finite element, spectral, wavelet, and their interface with modern machine learning techniques**, with a strong focus on scientific and engineering applications.
- Introduce participants to the basic requirements for computational mathematics and scientific machine learning through **hands-on sessions (Python/Matlab)**.
- Demonstrate **real-world applications** in **physical modeling, data assimilation, optimization, and high-performance simulation**.

### 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 FEE DETAILS

| Participants                           | Online | Offline |
|----------------------------------------|--------|---------|
| Research Scholars/UG/PG students       | 1000 ₹ | 2500 ₹  |
| Faculties from institutes/Universities | 1000 ₹ | 3500 ₹  |

Lunch and High Tea are included in registration Fees. Accommodation will be provided as per request.

 **Registration Deadline: 30<sup>th</sup> October, 2025**  
<https://forms.gle/BxM6EEYxQHSfnxPb7>

#### Bank Account Details:

Account Name: ABV-IIITM FDP ACCOUNT  
Address: Bank of India, IIITM Campus, Gwalior  
Account No.: 945210110009380  
IFSC: BKID0009462  
MICR: 474013010



### LOCAL ORGANIZING COMMITTEE

- **Prof. Anurag Srivastava**
- **Prof. Pankaj Srivastava**
- **Prof. Ajay Kumar**
- **Dr. Anuraj Singh**
- **Dr. Jeevaraj S.**
- **Dr. Kapil Kant**
- **Dr. Purnedu Mishra**
- **Dr. Anuwedita Singh**
- **Dr. Prabir Barman**
- **Dr. Yashwant Singh Patel**
- **Dr. Rohit Kumar**

### CONTACT DETAILS

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