

# **FIVE-DAY FACULTY DEVELOPMENT PROGRAMME**

**on**

## **Advanced Multi-Criteria Decision-Making: Fuzzy & Grey Techniques in Management Research** **(AMCDM-FGTMR)**



### **ABV-Indian Institute of Information Technology and Management (ABV-IIITM) Gwalior, MP, India**

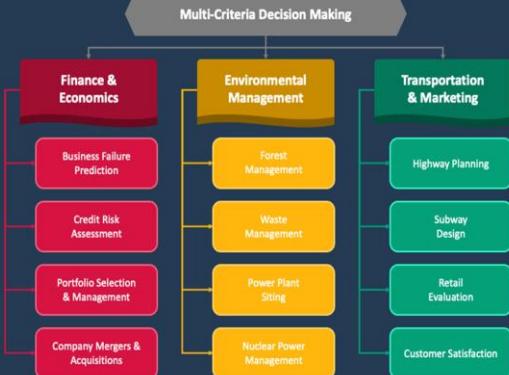
**(An Institute of National Importance,  
Ministry of Education, Govt. of India)**

**13<sup>TH</sup>-17<sup>TH</sup> FEBRUARY 2026**



विश्वजीवनामृत ज्ञानम्

### **MULTI-CRITERIA DECISION**



## **About ABV-IIITM Gwalior**

Atal Bihari Vajpayee- Indian Institute of Information Technology & Management (ABV-IIITM), Gwalior, was established in 1997 by the Ministry of Human Resource Development, Government of India. It is a premier institute known for excellence in Information Technology and Management education. Located in Gwalior, Madhya Pradesh, the institute promotes a vibrant academic culture rooted in research and innovation. ABV-IIITM maintains strong industry linkages, encouraging real-world learning and collaboration. It has been accredited with a NAAC 'A' grade and holds the status of an Institute of National Importance. The institute strives to create future-ready professionals through a cutting-edge curriculum and interdisciplinary learning. Its mission is to integrate technology, management, and research for societal and industrial impact.

## **About DoMS**

The Department of Management Studies (DoMS) is an academic department of ABV-IIITM Gwalior. DoMS offers academic programmes such as PhD, MBA and Integrated Programmes in Management with dual degrees of B.Tech and M.B.A. The DoMS aims to develop holistic and responsible leaders by creating insightful knowledge and transforming human endeavors.

## **About the Programme**

This Five-Day Faculty Development Programme is designed to equip faculty members, researchers, and practitioners with advanced knowledge and practical skills in contemporary decision-making and research methodologies. Emphasizing Fuzzy and Grey techniques within the broader field of multi-criteria Decision-Making, the programme integrates theoretical insights with hands-on training to enhance analytical capabilities.

## **Objectives**

- ◆ To enable participants to identify meaningful research problems and develop robust research frameworks within the domain of Management Studies.
- ◆ To provide a comprehensive understanding of Advanced Multi-Criteria Decision-Making (MCDM) techniques, including Fuzzy MCDM and Grey MCDM approaches, along with their applications in the research process.
- ◆ To offer practical exposure through hands-on exercises, case studies, and the use of prominent MCDM tools such as AHP, DEMATEL, ISM, TOPSIS, BWM, and advanced fuzzy and grey-based variants.
- ◆ To strengthen participants' research and academic writing skills, covering reference management and effective research paper writing.

## **Learning Outcomes**

- ◆ To develop the capability to identify significant research problems and design rigorous research frameworks within the field of Management Studies.
- ◆ To gain a comprehensive understanding of classical, advanced, fuzzy, and grey Multi-Criteria Decision-Making (MCDM) techniques and their diverse applications in research.
- ◆ To build strong theoretical and practical proficiency in advanced MCDM methods, as well as Fuzzy and Grey MCDM.

# Program Highlights

The Five-day Faculty Development Programme will comprise a wide array of topics and activities, enabling participants to broaden their horizons and deepen their expertise:

## Day 1: Research Foundation and Problem

- ◆ Understanding the Research Process
- ◆ Identifying Research Gaps and Research Problems
- ◆ Developing Conceptual Frameworks
- ◆ Review of Literature and Introduction to MCDM

## Day 2: Introduction to Advanced MCDM

- ◆ Fundamentals of MCDM & Role in Management
- ◆ MCDM Methods: AHP, TOPSIS, VIKOR
- ◆ Advanced MCDM: PROMETHEE, BWM, DEA
- ◆ Hands-on Session using software tools

## Day 3: Fuzzy & Grey MCDM

- ◆ Introduction to Fuzzy Logic & relevance in decisions
- ◆ Fuzzy MCDM Tools: Fuzzy AHP, Fuzzy TOPSIS
- ◆ Overview of Grey MCDM Methods
- ◆ Practical Session on Fuzzy & Grey MCDM

## Day 4: Case Study and Application of MCDM

- ◆ Fuzzy & Grey MCDM in Empirical Research
- ◆ Case Study Discussion
- ◆ Designing a Decision-Making Framework
- ◆ Expert Feedback on Research Ideas

## Day 5: Research Writing and Presentation in MCDM

- ◆ Managing References and Citations using Mendeley
- ◆ Structuring and Writing a Research Paper
- ◆ Discussion on Participants' Research Ideas

## FDP Venue

First-Floor, Department of Management Studies Atal-Bihari Vajpayee-Indian Institute of Information Technology and Management, Morena Link Road, Gwalior, Madhya Pradesh - 474015

## Program Coordinator

**Dr. Manoj Kumar Dash, Associate Professor**  
Department of Management Studies,  
ABV-IIITM Gwalior

## Program Co-coordinator

**Dr. Chetanya Singh, IPDF**  
Department of Management Studies,  
ABV-IIITM Gwalior

## Resource Persons

The resource persons for the program include experts from academic / research organizations, industry professionals, and faculty from IIMs, IITs, NITs, IIITs, and other institutes of national importance.

## Test and Certificate

A test shall be conducted (online) by the coordinator at the end of the program. The certificates shall be issued to those participants who attend the program with a minimum 80% attendance and score a minimum of 70% marks in the test.

## Eligibility

This course is open to all Faculty, Staff, Ph.D. scholars, and Industry Personnel seeking to obtain an in-depth knowledge of MCDM.

Mode: - Hybrid (Online & Offline)

Duration: - 5-Days (13<sup>th</sup>-17<sup>th</sup> Feb. ,2026)

## Registration Details

**Registration link:** Please fill out registration using the following link.

[Registration link](#)

## Participation Fees

- (i) Rs. 3,000/- for Online Participants
- (ii) Rs. 3,000/- for Research Scholars of the host institute,
- (iii) Rs. 6,000/- for other Offline Participants with accommodation (Rs.3000/- for non-Accommodation participants)

Note: The fee includes the knowledge sharing with the registered participants and facilitation of supplementing course material by the instructor in electronic form only.

#The participants can also avail the guest room accommodation on a self-payment basis, subject to its availability during the requisition period. Such participants can submit their request separately to the program coordinators at least one week prior to their arrival. The charges of such facilities shall be as per the institute norms.

## Mode of Payment

Participants are required to pay the fee in the following bank account through bank transfer/NEFT/ UPI

Account no: 945210110009380

Account Name: Director, ABV-IIITM, Gwalior

Bank name: Bank of India, Gwalior branch

IFSC Code: BKID0009462

## Contact Details

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Department of Management Studies

ABV-IIITM, Gwalior

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