FIVE-DAY FACULTY DEVELOPMENT PROGRAMME

on

Application of Structural Equation Modeling & Network Analysis in Management & Social Science Research

(SEMNAR-MS 2026)

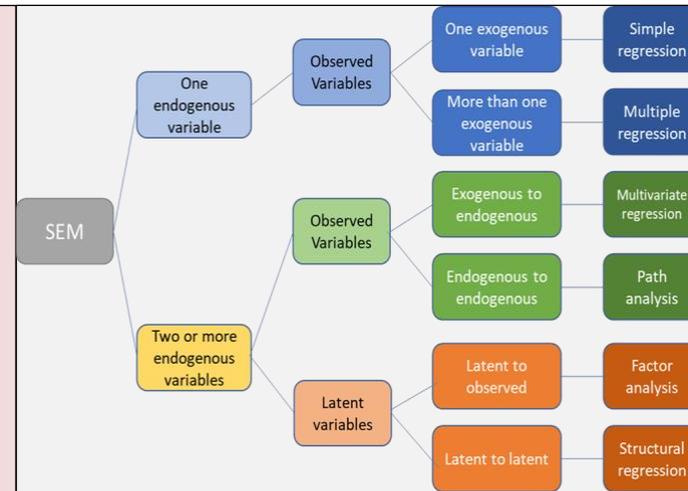### ABV-Indian Institute of Information Technology and Management (ABV-IIITM) Gwalior, MP, India

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

5TH-9TH May 2026

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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 aims to equip participants with advanced knowledge and practical skills in Structural Equation Modeling (SEM) and Network Analysis techniques. The programme integrates theoretical foundations with hands-on training using tools such as SPSS, AMOS, SmartPLS, and MATLAB. It is designed to enhance research capabilities in management and social science domains through data-driven modeling and analysis.

Objectives

- To provide a strong foundation in Structural Equation Modeling (SEM) and Network Analysis techniques.
- To develop participants' ability to design and analyze research models in management and social sciences.
- To offer hands-on training using tools such as SPSS, AMOS, SmartPLS, and MATLAB.
- To enhance skills in interpreting and reporting quantitative research findings.
- To introduce advanced and hybrid modeling approaches for high-quality research.

Learning Outcomes

- Ability to apply SEM and network analysis techniques in research studies.
- Competence in using statistical software for data analysis and model building.
- Skill in interpreting and reporting results of advanced quantitative models.
- Capability to design robust research frameworks using modern analytical approaches.

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 Exploratory Analysis
- Introduction to SEM and Research Design
- Scale Development and Data Collection
- EFA Concept and Theory
- EFA Hands-on Using SPSS software

Day 2: Confirmatory Modeling in Research
- Fundamentals of CFA
- CFA Hands-on Using AMOS software
- CFA Evaluation and Interpretation

Day 3: Structural Equation Modeling
- Introduction to PLS-SEM vs CB-SEM
- PLS-SEM Assumptions and Concept
- Hands-on Using SmartPLS software
- PLS Evaluation and Interpretation

Day 4: Network Analysis
- Introduction to Network Analysis
- ANP Concept and Theory
- ANP Hands-on using software tool
- Interpretation of ANP Results

Day 5: Artificial Intelligence Integration
- Introduction to ANN
- ANN Implementation Using MATLAB software
- Hybrid Modeling Approaches (PLS/ANP/ANN/etc.)
- Participant Presentation and Case Studies

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 Coordinator

Dr. Vinay Singh, 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 SEM and Network Analysis.
Mode: - Hybrid (Online & Offline)
Duration: - 5-Days (5th-9th May,2026)

Registration Details

Registration Link :

Please fill the registration form

Participation Fees

(i) Rs. 3,000/ + 18% GST - for Online Participants
(ii) Rs. 3,000/- + 18% GST for Research Scholars of the host institute
(iii) Rs. 5,000/- + 18% GST for other Offline Participants*#
(iv) USD 125 + Transaction charge (International Online 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.
*This includes program refreshment and working lunch for 05 days
#Offline participants are required to arrange their own lodging and boarding at their own expense. Limited on-campus accommodation may be offered on a chargeable basis, subject to availability. Requests must be submitted at least one week in advance; the Institute reserves the right to allocate, modify, or decline requests in accordance with its prevailing 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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