



FACULTY DEVELOPMENT PROGRAM

Cybersecurity Toolkit: A Technical Deep Dive

Organized by
Department of Computer Science and Engineering
Atal Bihari Vajpayee-Indian Institute of Information Technology and Management, Gwalior
December 05-06, 2025

About ABV-IIITM Gwalior

Atal Bihari Vajpayee - Indian Institute of Information Technology & Management Gwalior (ABV-IIITM Gwalior) is India's premier Institute incepted by the Ministry of Education (MoE), Government of India in the year 1997 as a center of excellence in the field of Information Technology and Management. It is the foremost Institute providing superior quality higher education in the designated areas and is located at Gwalior, Madhya Pradesh, India. The Institute's activities aim to develop a culture of inquiry and research through a highly competitive academic environment and close interaction between the Institute and the corporate world. Institute has many laurels to its credit in the national and international arena.

FDP Overview

In today's interconnected world, businesses, individuals, and organizations face an increasing number of cyber threats. From data breaches to ransomware attacks, cybersecurity has never been more critical. This **hands-on workshop** is designed to provide participants with the knowledge, skills, and tools required to navigate the complex landscape of **cybersecurity** and **network security**. Throughout the sessions, you'll learn not only the theory behind cybersecurity but also practical applications using real-world tools. Whether you're a seasoned IT professional or someone new to the field, this workshop will empower you to strengthen defenses and mitigate security risks effectively.

What Will you learn

- Overview of Cybersecurity, Types of Cyber Threats: Phishing, malware, ransomware, denial-of-service (DoS) attacks, and more
- Common Network Security Tools: Understand how firewalls filter traffic and how IDS systems monitor networks for suspicious activities, Learn how VPNs ensure secure communication over untrusted networks.
- Hands-On with Cybersecurity Tools: Wireshark, Metasploit Framework, Kali Linux Tools
- Malware Analysis: Static/Dynamic Analysis: Process Hollowing; Anti Analysis; Obfuscation; Persistence analysis, PE Header Analysis etc
- Cyber Defense Best Practices: Security Protocols: SSL/TLS, HTTPS, and other encryption methods used to protect sensitive data, tips and strategies for securing computers, mobile devices, and entire networks against cyberattacks
- Blockchain and distributed ledger technologies
- Real-World Case Studies

Who Can Attend

- IT & Network Admins
- Cybersecurity Students
- Tech Entrepreneurs
- Anyone Interested in Cyber Defense!

Resource Persons

Security Professionals from leading IT firms



Scan to
Register

Mode: Online

Registration Fees: 750 (INR)

Payment Details

Beneficiary Name: ABV-IIITM FDP ACCOUNT

Account Number: 945210110009380

Name of the Bank: Bank of India

IFSC Code: BKID0009462

Bank address and Branch: IIITM Branch, Gwalior

Chief Patron

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

Coordinators

Dr. Saumya Bhaduria

(+91-9926252319, saumya@iiitm.ac.in)

Prof. Shashikala Tapaswi

(+91-7761807224, stapaswi@iiitm.ac.in)