About ABV-IIITM Gwalior

ABV-IIITM Gwalior, established in 1997 by the Ministry of Human Resource Development, Government of India, is India's premier institute offering quality education in Information Technology and Management. Located in Gwalior, Madhya Pradesh, it fosters a culture of inquiry and research in a competitive academic environment with strong industry connections. Certified NAAC 'A' and declared an Institute of National Importance, ABV-IIITM focuses on excellence in education and collaboration with the corporate world.

Resource Person

- **Mr. Ajinkya Lohakare,** Certified Ethical Hacker, CTO & Founder of Ditto Security, CEH, CHFI, LPT, Penetration Tester, BUG BOUNTY Hacker. osh Talk and Tedx Speaker.
- **Experts from other Industries**
- **Experts from IIT/IIIT/NIT.**

Who Can Apply:

- UG/PG students, Research Scholars, Network Administrators, Software Developers eager to kickstart or strengthen their careers in cybersecurity and ethical hacking.
- Faculty and IT Professionals from Industry and Academia.

About the Workshop

The proposed one-week workshop "Information Security & Ethical Hacking Essentials with Generative AI: A Hands-On Approach" is designed to equip participants with both theoretical foundations and practical skills for building secure systems. The program will cover core concepts of **cybersecurity, ethical hacking techniques, and hardware security primitives**, while also exploring the transformative role of **Generative AI** and its application in cybersecurity. Through a blend of lectures and intensive hands-on sessions, participants will learn how to identify vulnerabilities, implement countermeasures, and apply AI-driven tools for real-world defense strategies. This application-oriented workshop is tailored for students, researchers, and professionals aiming to gain end-to-end security knowledge for **mission-critical systems**.

Key Contents of the Workshop:

- Introduction to Cybersecurity & Domains
- Penetration Testing and Ethical Hacking
- Hacking Web servers/applications, and Wireless Networks.
- Developing Ethical Hacking tools with Python
- Introduction to Kali Linux and its Tools
- Web Application Security & OWASP Top 10
- Open-Source Intelligence Fundamentals
- Practical Exploits and CTF Simulations
- Core concepts of AI agents and their types
- Building and deploying an AI agent
- How to integrate and deploy AI agents using Flask/Django and cloud services
- Hardware Security Threats, Vulnerabilities
- AI/ML and Edge Computing Systems Security
- AI and ML for Security

Five-Day Hybrid Workshop
On
Information Security & Ethical Hacking Essentials with Generative AI: A Hands-On Approach

06-10 November 2025

(Hybrid Mode: Offline/Online)

Organized by
Department of Information Technology
ABV-IIITM, Gwalior

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In Collaboration with

Ditto Security Innovation, Mumbai

Information Security-Based Innovation Center

Programme Features

- Understanding the concepts of cybersecurity and ethical hacking through different real-world applications.
- Understanding the core concepts of AI agents and their types with hands-on experience in building and deploying an AI agent with NLP capabilities.
- Participants learn how to integrate and deploy AI agents using Flask/Django and cloud services.
- Participants will learn security concepts for designing secure end-to-end AI/ML and Edge computing systems with hands-on experience.
- **Highly Interactive Sessions by Industry and Academia Persons with practical demonstrations.**
- Carrier guidance in the field of cybersecurity and ethical hacking.
- Participants will get knowledge about the latest market requirements, trends & technologies, and ongoing research in cybersecurity, Ethical Hacking, Generative AI, and Hardware Security.
- Offline/Online Access to the workshop sessions.
- Certificate on successful completion.
- Workshop Material (slides, notes, Python code snippets for each exercise) and Links to resources and documentation will be shared through Google Drive and GitHub repository.

Registration Details

- Everyone willing to participate in the workshop must register by filling out the Google form (with all details, including payment details) on or before the last date of registration.
- **Registration Fee:** Rs. 800/- (Inclusive of GST)
- **Last Date of Registration: October 30, 2025.**

Online Payment Details

- **Internet banking:**

Beneficiary Name	MS. ABV-IIITM FDP ACCOUNT, ABV-IIITM
Bank Name	BANK OF INDIA IIITM CAMPUS
A/C No.	945210110009380
IFSC Code	BKID0009462

- **UPI ID and QR Code:** boi-945263969380@boi

- **Registration Link:**

  https://forms.gle/bnZyoqmeAEm8bpRM9

Note: Request for a refund of the registration fee will not be entertained.

- **Number of Participants:** The maximum number of participants is 100. Participants are advised to register early.

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CO-ORDINATOR

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