

Cyber Security & Ethical Hacking

An intensive training program in ethical hacking and cyber security, covering networking fundamentals, Linux penetration testing, web app security, VAPT, digital forensics, incident response, and cloud security.

Duration	Training Mode	Certification	Practical Labs
5 to 6 Months	Offline Classroom Training	Industry Certificate	100% Hands-on

Tools & Tech: Kali Linux • Linux • Bash • Nmap • Wireshark • Burp Suite • Metasploit Framework • OWASP • ZAP • SQLMap • Nikto • Hydra • John the Ripper • Aircrack-ng • Gobuster • Dirb • Netcat • SIEM • Fundamentals • Wi-Fi Security • REST APIs • JWT • VPN • Firewall • AWS Security • Microsoft • Azure Security • Google Cloud Security • ChatGPT • AI-Assisted Security Analysis

Detailed Course Curriculum & Modules

MODULE 01 Introduction to Cyber Security - Cyber Security Fundamentals - Introduction to Cyber Security - Information Security Basics - CIA Triad (Confidentiality, Integrity & Availability) - Types of Cyber Threats - Cyber Attack Lifecycle - Cyber Kill Chain - Common Cyber Crimes - Security Policies - Risk Management - Security Best Practices - Career Opportunities in Cyber Security	MODULE 02 Computer Networking Fundamentals - Networking Basics - Introduction to Computer Networks - OSI Model - TCP/IP Model - IP Addressing (IPv4 & IPv6) - Subnetting Basics - MAC Address - DNS - DHCP - HTTP & HTTPS - FTP - SMTP
MODULE 03 Linux for Ethical Hacking - Linux Fundamentals - Introduction to Linux - Kali Linux Installation - Linux File System - Terminal Commands - File Permissions - User Management - Package Management - Shell Scripting Basics - SSH - Process Management - Environment Variables	MODULE 04 Cyber Security Tools - Security Tools - Kali Linux Tools - Nmap - Wireshark - Burp Suite - Metasploit Framework - Nikto - Hydra - John the Ripper - Aircrack-ng - Gobuster - Dirb
MODULE 05 Web Application Security - Web Security Fundamentals - HTTP Request & Response - Cookies & Sessions - Authentication - Authorization - Input Validation - Security Headers - Cross-Origin Resource Sharing (CORS) - JWT Basics - API Security - Secure Coding Practices - OWASP Top 10	MODULE 06 Vulnerability Assessment & Penetration Testing (VAPT) - Vulnerability Assessment - Introduction to VAPT - Information Gathering - Footprinting - Reconnaissance - Network Scanning - Service Enumeration - Vulnerability Scanning - Risk Assessment - Security Reporting - Remediation Planning - Penetration Testing

MODULE 07 | Wireless & Network Security

- Wireless Security
- Wi-Fi Standards
- Wireless Authentication
- WPA2 & WPA3
- Wireless Threats
- Rogue Access Points
- Evil Twin Concept
- Wireless Network Auditing
- Bluetooth Security
- VPN Configuration
- Secure Wireless Practices
- Network Defense

MODULE 08 | Digital Forensics & Incident Response

- Digital Forensics
- Introduction to Digital Forensics
- Evidence Collection
- Disk Imaging
- Memory Analysis
- File Recovery
- Log Analysis
- Browser Forensics
- Mobile Forensics (Introduction)
- Chain of Custody
- Forensic Reporting
- Incident Response

MODULE 09 | Cloud & AI Security

- Cloud Security
- Introduction to Cloud Computing
- Cloud Security Basics
- AWS Security Fundamentals
- Azure Security Basics
- Google Cloud Security
- IAM Concepts
- Cloud Storage Security
- Cloud Monitoring
- Cloud Compliance
- Cloud Best Practices
- AI in Cyber Security

MODULE 10 | Security Operations (SOC)

- SOC Fundamentals
- Introduction to Security Operations Center
- SIEM Concepts
- Log Management
- Event Correlation
- Threat Hunting
- Threat Intelligence
- Malware Analysis Basics
- Endpoint Security
- Security Monitoring
- Security Automation (Introduction)

MODULE 11 | Cyber Laws & Security Compliance

- Security Governance
- Cyber Laws
- IT Act Overview
- Data Privacy
- GDPR (Introduction)
- ISO 27001 Basics
- Security Policies
- Compliance Requirements
- Security Audits
- Ethical Hacking Guidelines
- Professional Ethics

Practical Projects & Industry Capstones

- Network Vulnerability Assessment
- Web Application Security Audit
- Secure Network Design
- Wi-Fi Security Assessment
- Penetration Testing Report
- Security Monitoring Dashboard
- Digital Forensics Investigation
- Log Analysis System
- Security Awareness Portal
- AI-Assisted Threat Detection Dashboard
- SOC Monitoring Project
- Enterprise Security Assessment

■ Industry Certification

Authorized certificate verified globally via online portal.

■ 100% Placement Support

Resume review, mock interviews, and recruiter connections.

■ Lab Access & Mentorship

Dedicated workstation lab hours with expert guidance.