

An ISO 9001:2015 Certified Organization दिल्ली सरकार द्वारा मान्यता प्राप्त

CYBER SECURITY & ETHICAL HACKING-

12 MONTHS

Module 1: Introduction to Cyber Security

What is Cyber Security? CIA Triad

Types of Hackers (White/Black/Grey Hat)

Cyber Crimes and Threat Landscape

Ethics and Laws (IT Act, GDPR, etc.)

Basics of Digital Footprint & Anonymity

Module 2: Networking & Security Basics

OSI & TCP/IP Models

IP Addressing, Subnetting

Ports & Protocols (TCP/UDP, DNS, HTTP/S, FTP, SSH)

Network Devices & Firewalls

Packet Flow & Sniffing Basics

Module 3: Linux & Windows OS for Hackers

Basic & Intermediate Linux Commands

File system, permissions, bash scripting

Windows OS Internals: Registry, Services, Task Manager

User accounts & privilege escalation

Module 4: Footprinting & Reconnaissance

Passive vs Active Recon

WHOIS, DNS Enumeration

Shodan, Maltego

Social Engineering Basics

OSINT (Open Source Intelligence)

Module 5: Scanning: Port, Network, and Service

Banner Grabbing

Vulnerability Scanning

CVEs and CVSS

Module 6: Gaining Access - System Hacking

Password Cracking (Hashing, Brute Force, Rainbow Tables)

Trojans, Backdoors, Keyloggers

Privilege Escalation (Linux/Windows)

Hiding Tracks and Clearing Logs

Module 7: Web Application Hacking

OWASP Top 10 Vulnerabilities:

SQLi, XSS, CSRF, File Inclusion, Authentication Bypass

Web Shells & Backdoors

Exploiting Admin Panels

Secure Coding Guidelines (overview)

Module 8: Wireless Network Hacking

Wi-Fi Encryption: WEP, WPA, WPA2, WPA3

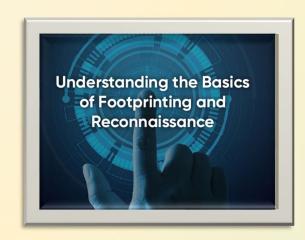
Packet Capturing & Decryption

Evil Twin Attack

MITM (Man-in-the-Middle) Attacks

Deauthentication Attacks









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Module 9: Metasploit & Exploitation Frameworks

Introduction to Metasploit

Exploit & Payload Creation

Meterpreter Sessions

Post-Exploitation

Creating Custom Payloads

Module 10: Malware Analysis & Reverse Engineering (Month 10)

Types of Malware: Virus, Worm, Ransomware, Rootkits

Static vs Dynamic Malware Analysis

PE File Analysis

Sandboxing, Emulation, Debugging

Module 11: Digital Forensics & Incident Response

What is DFIR?

Data Acquisition & Imaging

Log Analysis

Timeline & Evidence Preservation

Chain of Custody

Incident Handling Lifecycle

Module 12: Cloud, Mobile & IoT Security + Final Projects

Cloud Security (AWS Basics, Shared Responsibility Model)

Mobile App Hacking (Android basics)

IoT Devices - Risks and Vulnerabilities

Final Project: Penetration Test Report

Career Guidance & Certification Prep



