🔐 6-Month Cybersecurity & Ethical Hacking Course Syllabus

📅 **Duration:** 24 Weeks

📚 **Mode:** Online/Offline

🎓 **Level:** Beginner to Expert

📝 **Outcome:** Advanced Skills + Live Projects + Internship Support + Industry-Recognized Certificate

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⚒️ Phase 1: Cybersecurity & Ethical Hacking Basics (Month 1)

Week 1: Introduction to Cybersecurity

- What is Cybersecurity?

- Types of Threats & Attacks

- Roles in Cybersecurity

- Basics of Cyber Law (India + International)

Week 2: Linux & Windows OS Basics

- Introduction to Linux (Kali/Parrot)

- File System, Command Line, Permissions

- Basic Windows Administration for Hackers

Week 3: Networking Fundamentals

- OSI & TCP/IP Model

- IP Addressing, Subnetting, DNS, DHCP

- Tools: Wireshark, tcpdump

Week 4: Virtual Lab Setup

- Installing VirtualBox / VMware

- Setting up Kali Linux, Metasploitable, DVWA

- Introduction to Penetration Testing

🔨 Phase 2: Footprinting, Scanning & Vulnerability Assessment (Month 2)

Week 5: Footprinting & Reconnaissance

- OSINT Techniques

- Tools: theHarvester, Shodan, Maltego, Recon-ng

- Email Footprinting, Google Dorking

Week 6: Scanning & Enumeration

- Nmap, Zenmap, Masscan

- Service Detection, Banner Grabbing

- Enumerating SMB, FTP, SNMP

Week 7: Vulnerability Assessment

- What is a CVE, CVSS Scoring

- Vulnerability Scanning: Nessus, OpenVAS

- Manual Testing vs Automated Testing

Week 8: System Hacking Basics

- Password Cracking: Hashcat, John the Ripper

- Brute Force using Hydra

- Privilege Escalation Techniques (Windows/Linux)

🔨 Phase 3: Exploitation, Metasploit & Malware (Month 3)

Week 9: Metasploit Framework

- Creating Payloads with MSFvenom

- Exploiting Services

- Meterpreter Usage

Week 10: Trojans, RATs & Malware Analysis

- Introduction to Malware

- Remote Access Tools (DarkComet, Quasar)

- Basic Static & Dynamic Malware Analysis

Week 11: Social Engineering & Phishing

- SET Toolkit

- Phishing Website Cloning

- USB Payload Attacks, Human Weakness Exploits

Week 12: Bypassing Security

- Antivirus Evasion Techniques

- UAC Bypass & Payload Obfuscation

- Sandbox & Firewall Evasion

🔨 Phase 4: Web App Hacking (Month 4)

Week 13: OWASP Top 10 Overview

- SQL Injection, XSS

- CSRF, IDOR

- Tools: DVWA, bWAPP

Week 14: Burp Suite in Depth

- Proxy, Repeater, Intruder, Scanner

- Web Crawler & Intercepting Traffic

- Authentication Bypass & Token Manipulation

Week 15: Advanced Web Attacks

- SSRF, XXE, Command Injection

- LFI, RFI

- Exploiting File Upload & Broken Access Control

Week 16: Bug Bounty Hunting

- Introduction to Bug Bounty Platforms (HackerOne, Bugcrowd)

- Report Writing for Vulnerabilities

- Responsible Disclosure Guidelines

🪓 Phase 5: Wireless & Cloud Security (Month 5)

Week 17: Wi-Fi Hacking

- Aircrack-ng, Fluxion, Wifite

- WPA/WPA2 Cracking

- Evil Twin & Deauth Attacks

Week 18: MITM & Sniffing Attacks

- ARP Spoofing, DNS Spoofing

- Tools: Ettercap, Wireshark

- Capturing Passwords in Plaintext

Week 19: Mobile Hacking

- Android Pentesting Basics

- Drozer & ADB Tools

- APK Reverse Engineering

Week 20: Cloud Security

- Basics of AWS, Azure, GCP Security

- Cloud Vulnerabilities

- S3 Bucket Hacking

🪓 Phase 6: Advanced Topics, Projects & Career (Month 6)

Week 21: Active Directory & Internal Network Attacks

- AD Enumeration, Kerberoasting, Pass-the-Hash

- Lateral Movement & Pivoting

- Tools: BloodHound, Mimikatz

Week 22: Capture The Flag (CTF)

- HackTheBox / TryHackMe Rooms

- Vulnhub Machine Walkthroughs

- Realistic CTF Practice

Week 23: Real-Time Pentesting Project

- Live Application/Network Testing (Simulated Environment)

- Documentation, Screenshots, Report Writing

- Exploitation Chain Demonstration

Week 24: Final Exam + Career Support

- Practical Exam + Viva

- Resume Building for Cybersecurity

- Job Roles: SOC Analyst, Pentester, Red Teamer

- Internship / Freelance Project Guidance

🎁 Included Extras:

- **Lifetime Access to Lab Material**

- **Free E-books & Tools List**

- **Access to Private CTFs**

- **Interview Preparation Questions**

- **Certificate of Completion + Internship Certificate**