# 🔐 3-Month Cybersecurity & Ethical Hacking Course Syllabus

📅 **Duration:** 12 Weeks
📚 **Mode:** Online/Offline
🎓 **Level:** Beginner to Advanced
📝 **Outcome:** Industry-Ready Skills + Certificate + Final Project

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## ◇ Month 1: Foundations of Ethical Hacking & Networking

✅ **Week 1: Introduction to Cybersecurity & Ethical Hacking**

- Types of Hackers & Cyber Threats

- Cyber Law & Legal Aspects

- Setting up a Hacking Lab (Kali Linux, VirtualBox, DVWA, Metasploitable)

✅ **Week 2: Networking Essentials**

- OSI Model & TCP/IP Basics

- IP Addressing, Subnetting, DNS, DHCP

- Packet Flow Analysis with Wireshark

✅ **Week 3: Linux & Windows OS Basics for Hackers**

- Linux Terminal Commands, File System

- User Management & Permissions

- Windows Architecture & PowerShell for Hackers

✅ **Week 4: Footprinting & Reconnaissance**

- Passive and Active Information Gathering

- WHOIS, NSLookup, Social Engineering, Shodan

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

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## ◇ Month 2: Scanning, Vulnerability Analysis & Exploitation

## ✅ Week 5: Scanning & Enumeration

- Port Scanning: Nmap, Zenmap

- Network Mapping, OS Detection

- Service Enumeration: SMB, FTP, SNMP

## ✅ Week 6: Vulnerability Assessment

- What are CVEs and CVSS?

- Vulnerability Scanning Tools: Nessus, OpenVAS

- Manual Vulnerability Detection

## ✅ Week 7: System Hacking & Exploitation

- Password Cracking (Hydra, John the Ripper, Hashcat)

- Privilege Escalation (Windows & Linux)

- Remote Access Tools (RATs)

## ✅ Week 8: Metasploit Framework

- Exploitation using Metasploit

- Creating Payloads with MSFvenom

- Meterpreter Basics & Post Exploitation

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## ◇ Month 3: Advanced Web, Wireless, & Real-World Attacks

## ✅ Week 9: Web Application Hacking (Part 1)

- OWASP Top 10 Overview

- SQL Injection (Manual + Automated with SQLmap)

- Cross-Site Scripting (XSS)

## ✅ Week 10: Web Application Hacking (Part 2)

- Command Injection, File Upload Vulnerabilities

- Burp Suite Professional (Deep Usage)

- Testing with DVWA, bWAPP, and Juice Shop

✅ **Week 11: Wireless Hacking & Social Engineering**

- Wi-Fi Cracking using Aircrack-ng, Wifite, Fluxion

- Evil Twin Attacks, Deauthentication Attacks

- Social Engineering Toolkit (SET)

- Phishing Page Creation & Cloning Websites

✅ **Week 12: Capture The Flag (CTF) & Career Building**

- Introduction to CTF Challenges (TryHackMe, Hack The Box)

- Real-World Scenarios & Simulated Pentesting

- Report Writing for Pentesters

- Career Paths: Bug Bounty, Pentester, SOC Analyst

- Final Exam + Certificate + Career Guidance

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## 🎁 Extras:

- **Resume Building for Ethical Hackers**

- **Internship & Freelance Guidance**

- **List of Bug Bounty Platforms**

- **Practice Labs & CTF Platforms (Hack The Box, TryHackMe, PortSwigger)**

- **Interview Preparation Tips**