**Ethical Hacking Online Course Curriculum**

Well-structured & comprehensive curriculum designed according to latest trends and industry standards!

**NETWORKING CONCEPTS**

* What is Computer Networking?
* How does Networking Work?
* Types of Networks
* What is IP Address?
* IPv4 vs IPv6
* Types of IP Address
* Role of Ports in Networking
* What is OSI Model and How does It Work?
* What is TCP/IP Model and How does It Work?
* OSI vs TCP/IP Model
* What are Network Protocols?
* Types of Protocols
* How does TCP Work?
* TCP vs UDP
* What is Domain Name?
* What is DNS?
* DNS Records and Their Uses
* What is Zone File?
* What is HTML Request?
* What is HTML Response?
* Types of Request Methods
* Capturing and Analyzing Network Packets (Wireshark)

**INTRODUCTION TO ETHICAL HACKING**

* What is Ethical Hacking?
* Types of Hackers
* Types of Attacks on a System
* Cybersecurity Laws
* What is Linux?
* Cool Features of Linux
* Basic File System of Linux
* Basic Linux Commands
* Linux Commands (Practical)

**SETTING UP ETHICAL HACKING LAB**

* Installing Kali Linux in Virtual Box
* Configuring Kali Linux
* Installing Discover Tool
* Downloading a Good Wordlist
* Installing Burp Suite Pro
* Anonymous Configuration in Linux
* Configuring Proxy
* Configuring VPN
* Changing MAC Address
* Auto Run Shell Script (MAC Changer)
* Changing Wi-Fi MAC Address

**FOOTPRINTING AND RECONNAISSANCE**

* What are Footprinting and Reconnaissance?
* Types of Footprinting & Reconnaissance
* Use of Footprinting & Reconnaissance
* Footprinting Through Search Engines
* Footprinting using Advanced Google Hacking Techniques
* Footprinting Through Social Networking Sites
* Website Footprinting
* Email Footprinting
* DNS Footprinting
* WHOIS Footprinting
* NS Lookup
* Footprinting Through Discover Tool

**SCANNING NETWORKS**

* What is Network Scanning?
* Network Scanning Methodology
* Types of Network Scans
* Checking for Live Systems and Buffer Size
* Checking for Open Ports
* Checking for Services on Ports
* OS Fingerprinting & Banner Grabbing
* Countermeasures

**ENUMERATION**

* What is Enumeration?
* Types of Enumeration
* Default Ports
* How to Enumerate NetBIOS?
* How to Enumerate SNMP?
* How to Enumerate SMTP?
* How to Enumerate NFS?
* How to Enumerate DNS?
* Countermeasures

**VULNERABILITY ASSESSMENT**

* What is Vulnerability Assessment?
* Classification of Vulnerability
* Vulnerability Assessment Lifecycle
* Vulnerability Assessment Solutions
* Vulnerability Scoring Systems
* Scanning for Vulnerability in Nmap scans result?
* Vulnerability Scanning - ZAP (OWASP)

**SYSTEM HACKING**

* What is System Hacking?
* System Hacking Methodology
* Cracking Windows Password
* Creating a Good Password list
* Escalate Privileges in Linux
* Escalate Privileges in Windows OS
* System Hacking using URL
* System Hacking using Open Ports
* What is Steganography?
* Types of Steganography
* Steganography Practical

**MALWARE THREATS**

* What is Malware?
* Example of Malware
* What is Trojan?
* What are Viruses and Worms?
* Types of Malware Analysis
* Static Malware Analysis
* Dynamic Malware Analysis
* How to Create RAT Trojan?
* Creating Payloads
* Creating Undetectable Payloads

**SNIFFING**

* What is Sniffing?
* How an Attacker Hacks the Network Using Sniffers?
* Active Scanning Techniques
* Types of Sniffing
* Protocols Vulnerable to Sniffing
* MAC Spoofing
* MAC Flooding
* DHCP Flooding
* Setup DHCP Rouge
* MITM Attack
* Sniffing with Wireshark

**SOCIAL ENGINEERING**

* What is Social Engineering?
* Types of Social Engineering
* Human-based Social Engineering
* Computer-based Social Engineering
* Mobile-based Social Engineering
* Social Engineering Using SET

**DOS & DDOS ATTACKS**

* What is DoS Attack?
* What is DDoS Attack?
* Basic Categories of DoS/DDoS Attack Vectors
* UDP Flood Attack
* ICMP Flood Attack
* SMURF Attack
* SYN Flood Attack
* What is DRDOS Attack?
* Performing DoS Attack
* Performing DDoS Attack
* Performing DoS/DDoS on Mobiles
* Performing MAC Flooding
* Performing DHCP Flooding

**SESSION HIJACKING**

* What is Session Hijacking?
* Why is Session Hijacking Successful?
* Session Hijacking Process
* Types of session Hijacking
* Performing Session Hijacking

**HACKING WEB SERVERS & WEB APPS**

* What is Web Server?
* Web Server Attacks
* Web Server Attack Methodology
* Web Application Concepts
* Web Application Hacking Methodology
* Vulnerability Scanning with Acunetix

**HACKING WIRELESS NETWORKS**

* What is Wireless Networking?
* Types of Wireless Encryption
* Types of Wireless Threats
* Wireless Hacking Methodology
* Complete Hacking WEP (WI-FI)
* Basic to Advanced Hacking WPA/WPA2
* How to Jam Wi-Fi?

**HACKING MOBILE PLATFORM**

* Mobile Platform Attack Vectors (Vulnerable Areas)
* OWASP Top-10 Mobile Risks- 2016
* Mobile Platform Vulnerability and Risks
* Mobile Security Guidelines
* Calls, SMS, Email Bombing on Android
* Generating Payloads (Basic to Advanced)
* Using Keylogger App
* Info Gathering from G-Accounts

**CRYPTOGRAPHY**

* What is Cryptography?
* Difference Between Encoding, Hashing & Cryptography
* Types of Cryptography
* How it works?
* Cryptography tools
* Hashing Tools
* Encoding Tools

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