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MODULE 1
Ethical hacking
Types of hackers and terminologies
Cybercrime and types
What is ethical hacking
Why ethical hacking
The legality of ethical hacking

MODULE 2
Footprinting, concepts
Techniques for web footprinting
Techniques for email footprint
Techniques for competitive intelligence
Techniques in WHO footprint
Techniques in-network footprinting
Footprinting tools
Network footprinting
DNS Footprinting
Website footprinting

MODULE 3
Network scanning
Techniques to check for live system
Techniques to check for open ports
Scanning techniques
Banner grabbing
Scanning and pen testing
Host discovery
Scanning beyond IDS and firewall

MODULE 4
Enumeration
Introduction to Enumeration
Enumeration Types
Enumerating User Accounts.
Enumeration Countermeasures.

MODULE 5
System Hacking
Password Cracking
Types of Password Attacks
Keyloggers
Spyware
Detecting RootKits
Covering Tracks

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MODULE 6
Trojans and Backdoors
What is a Trojan?
Trojan Attacks and Indications.
How to deploy a Trojan
Types of Trojans
Anti-Trojans Software
Penetration Testing

MODULE 7
Viruses and Worms
Introduction to Viruses
Stages of a Virus Life.
Working with viruses.
Writing a Simple Virus Program
Computer Worms
Malware Analysis Procedure.
Anti-Virus Tools.

MODULE 8
Sniffing techniques
MAC attacks
DHCP attacks
ARP poisoning
Spoofing attacks
DNS poisoning
Sniffing pen testing
Social engineering concepts, techniques
Networking sites

MODULE 9
Social Engineering.
What is Social Engineering?
Phases of a Social Engineering Attack
Social Engineering through Impersonation on Social Networking Sites.
Identify Theft.
How to Steal Identity?
Social Engineering Pen Testing.

MODULE 10
Denial Of Service.
What is a DoS and DDoS Attack?
How do DoS Attacks work?
Symptoms of a DoS Attack
DoS Attack Techniques.

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DDoS Case Study.
Protection Tools.

MODULE 11
Session Hijacking
What is Session hijacking?
Hijacking Techniques.
Brute Forcing.
Spoofing vs. Hijacking.
Types of Session Hijacking
Session Hijacking in OSI Model.
TCP/IP Hijacking.
Hijacking Tools.
IPSec Architecture.
Penetration Testing.

MODULE 12
Web service hacking
Web service concepts, attacks, methodology, tools
Web service pen testing
Web application
Web application concepts, threats, methodology, tools

MODULE 13
Hacking Web Applications.
Introduction to Web Applications.
How do Web Applications work?
Web Applications Architecture.
Unvalidated Input
Parameter / Form Tampering.
Injection Flaws.
Hidden and Manipulated Attacks.
Cross-Site Scripting
Hacking Methodology
Web Application Security Tools.
Web Application Firewalls.
Web Application Pen Testing.

MODULE 14
SQL Injection.
Introduction to SQL Injection.
Threats of SQL Injection Attacks.
SQL Injection Detection.
Simple / Union Injection Attacks.
What is a Blind SQL Injection?

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SQL Injection Tools.

MODULE 15
Hacking Wireless Networks.
Introduction to Wireless Networks.
Wi-Fi Authentication Modes.
WEP Encryption
WPA / WPA2 Encryption.
Wireless Threats.
Wireless Hacking Methodology.
Wireless Hacking Tools.
Bluetooth Hacking.
How to defend against Wireless Attacks.
Wireless Penetration Testing Framework.

MODULE 16
Evading IDS, Firewalls, and Honeypots.
Intrusion Detection Systems (IDS).
Ways to detect an Intrusion.
Types of Intrusion Detection Systems.
Types of Firewalls.
Firewall Identification Techniques.
Honeypot.
Types of honeypot.
Evading IDS.
Evading Firewalls.
Detecting Honeypots.
Firewall Evading Tools.

MODULE 17
Buffer Overflow.
Buffer Overflows.
Stack-Based / Heap-Based Overflows.
Stack Operations.
Buffer overflow Steps.
Smashing the Stack.
Examples of Buffer Overflow Attacks.
BoF Detection Tools.

MODULE 18
Cryptography.
Introduction to Cryptography
Ciphers.
Advanced Encryption Standard (AES)
RC4, RC5, Rc6 Algorithms.

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RSA (Rivest Shamir Adleman).
Message Digest 5 (MD5).
Secure Hashing Algorithm (SHA).
Cryptography Tools.
Public Key Infrastructure (PKI).
Digital Signatures.
SSS (Secure Socket Layer).
Disk Encryption.
Cryptography Attacks.

MODULE 19
Penetration Testing.
Penetration Testing (PT).
Security Assessments.
Risk Management.
Automated Testing.
Manual Testing.
Enumerating Devices.
Denial of Service Emulation.
Hacker Shield.
Pentest using various Devices.

MODULE 20
Hacking Mobile Platforms.
Understanding Mobile Platforms Terminology
Android / IOS / Windows Phones.

For more details about this course, Click on this link: Ethical Hacking Training