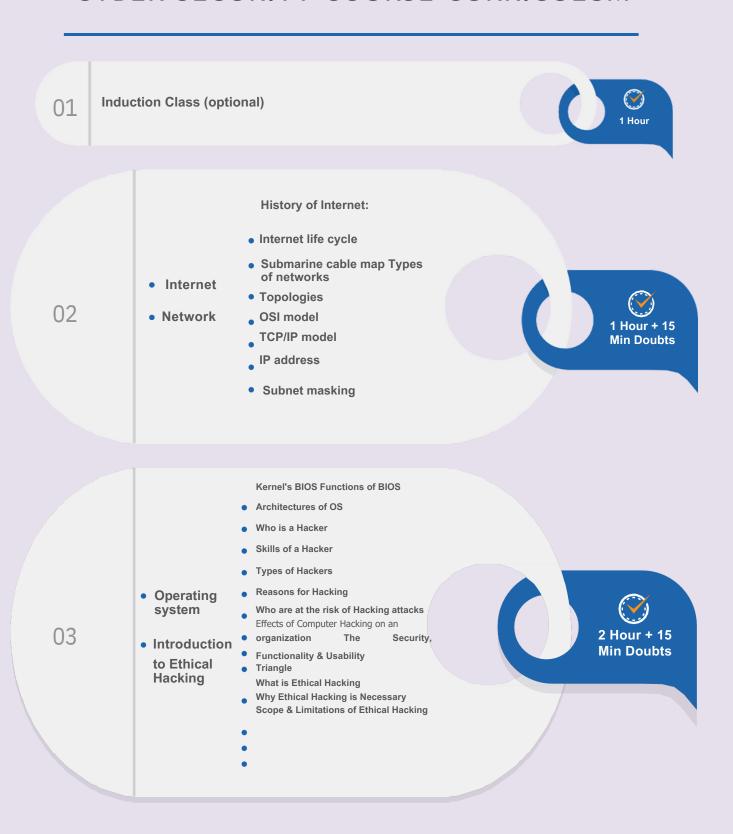




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#### CYBER SECURITY COURSE CURRICULUM





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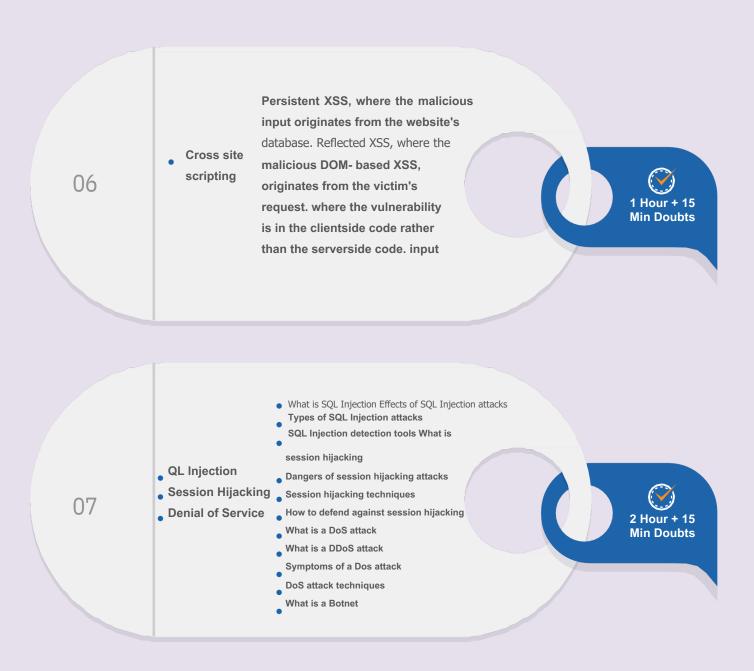
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What is Foot Printing **Objectives of Foot Printing** Finding a company's details Finding a company's domain name Finding a company's Internal URLs **Foot printing** Finding a company's Server details andReconn Finding the details of domain 04-aissance Finding the range of IP Address Finding the DNS information Finding the location of servers Traceroute analysis Tracking e-mail communications What is network scanning Objectives of network scanning Finding the live hosts in a network SNMP Enumeration SMTP Enumeration **DNS Enumeration** Finding open ports on a server Finding the services on a server OS fingerprinting Scanning Server Banner grabbing tools What is a Vulnerability Scanning Hacking What is a proxy server 05 Web Servers & How does proxy server work Why do hackers use proxy servers • What is a TOR network **Applications** Why hackers prefer to use TOR networks What is a web server Different webserver applications in use Why are webservers hacked & its consequences Directory traversal attacks Website defacement Website password brute forcing 1 Hour + 15 Minutes Doubt





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Phishing What is Phishing How Phishing website is hosted How victims are tricked to access Social Phishing websites How to differentiate a Phishing webpage **Engineering** 80 from the original webpage How to defend against Phishing attacks Homograph attack What is a Firewall What are the functions of a Firewall Types of firewalls What is an IDS How does an IDS work What is a honeypot **Evading Firewalls,** What is Kali Linux **IDS & Honeypots** How Kali Linux is different from other Linux distributions Kali Linux What are the uses of Kali Linux 09 Tools for Footprinting, Scanning & Sniffing What is Metasploit framework Using Metasploit framework to attack Wiindows machines Using Metasploit framework to attack Android devices



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What is system Hacking · Goals of System Hacking **Password Cracking** Password complexity Finding the default passwords of network devices and softwares Password cracking methods o Online password cracking Man-in-the-middle attack Password guessing o Offline password System Brute force cracking Hacking Dictionary based cracking **USB** password stealers Elcomsoft Distributed password recovery tools Active password changer What is a keylogger How to deploy a keylogger to a remote pc How to defend against a keylogger

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What is mobile Hacking

Goals of mobile Hacking • Countermeasures

What is a sniffer

How sniffer works

Types of sniffing • Active sniffing

Passive Sniffing • What is ARP

ARP poison attack

Mobile Hacking

Sniffers

Threats of ARP poison attack

How MAC spoofing works

MAC Flooding

How to defend against MAC Spoofing attacks

How to defend against Sniffers in network



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Types of wireless networks Finding a Wi-Fi network Types of Wi-Fi authentications Using a centralized authentication server Using local authentication Types of Wi-Fi encryption methods WEP WPA WPA2 How does WEP work Weakness of WEP encryption Wireless How does WPA work Hacking How does WPA2 work Hardware and software required to crack Wi-Fi networks How to crack WEP encryption How to crack WPA encryption How to crack WPA2 encryption How to defend against Wi-Fi cracking attack





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What is a sniffer Introduction to cloud
Consequences
Mitigation Introduction
Symmetric key
Asymmetric key
public key
public key
private key