COURSE CONTENT – CYBER SECURITY

Introduction To Ethical Hacking

- **What Is Hacking?**
- **Hacker Classes**
- **Ethical Hacking**
- **Threat, Vulnerability, And Risk**
- **Importance Of InfoSec**
- **CIA Triad**
- **Security, Functionality, and Usability**
- **Hacking Methodologies**

Reconnaissance

- **Footprinting**
- **Procedures In Reconnaissance**
- **Data Retrieval Scope**
- **Footprinting Methods**
- **Reconnaissance Methods**
- **Active and Passive Reconnaissance**

Scanning

- **Why Scanning?**
- **Objectives Of Network Scanning**
- **Communication Flags**
- **Types Of Scan**
- **Identifying Results From Scans**

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Gaining & Maintaining Access

- **Enumeration**
- **Information Enumerated**
- **Types Of Enumeration**
- **Enumeration Tools**
- **Gaining Access**
- **Maintaining Access**
- **Clearing Tracks**
- **Hacking Stages**
- **Penetration Testing**

Reconnaissance

- **System Hacking Steps**
- **Password Complexity**
- **Password Cracking Techniques**
- **Defence Against Password Attacks**
- **Sniffing**
- **Types of Sniffing Attacks**
- **ARP Poisoning**
- **MAC Flooding**
- **DNS Poisoning**
- **DHCP Attack**
- **Sniffing Tools**
- **Defence Against Sniffing Attacks**

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Worms, Viruses & Trojans

- Trojan
- Communication Channels
- What Do Hackers Look For?
- Goals Of Trojan
- Types Of Trojans
- Indication Of A Trojan Attack
- Trojan Tools
- Computer Worm
- How Viruses Work?
- Types Of Viruses
- Counter Measures For Viruses and Worms
- Computer Virus

System Security

- DOS/DDOS Attack
- How Does DOS Work?
- Symptoms Of DOS
- Session Hijacking
- XSS Attack
- Steps Involved
- Session Hijacking Tools
- Prevention Against Session
- Hijacking
- DOS Techniques
- DOS Counter Measures

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COURSE CONTENT – CYBER SECURITY

Web & Network Security

- How Web Applications Work
- SQL Injection Attack
- Wireless Networks
- Wireless Hacking
- Methodologies
- IDS/IPSs
- Firewalls
- WEP
- WPA

Vulnerability & Management Reporting

- Vulnerability Assessment
- Vulnerability Management Process
- Phases Of Vulnerability Management
- Report Writing
- Constituents Of A Report

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