

## DIPLOMA IN CYBER SECURITY

### DURATION : 1 YEAR

- ♦ Installation Of Attacker And Victim System.
- ♦ Information Gathering Using Advanced.
- ♦ Google Search, Archive.Org.
- ♦ Netcraft, Whois, Host, Dig, Dnsenum And NMAP Tool.
- ♦ Routing Protocols.
- ♦ IP Version 6.
- ♦ IP Addressing And Routing.
- ♦ TCP And UDP , IP Subnets.
- ♦ Introduction To Ethical Hacking.
- ♦ Fundamentals Of Computer Networking.
- ♦ TCP/IP Protocol Stack.
- ♦ Vulnerability Scanning Using NMAP And Nessus.
- ♦ Creating A Secure Hacking Environment.
- ♦ System Hacking: Password Cracking, Privilege Escalation, Application ,Execution.
- ♦ Malware And Virus.
- ♦ ARP Spoofing And MAC Attack.
- ♦ Introduction To Cryptography.
- ♦ Private-Key Encryption.
- ♦ Public-Key Encryption.

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- ♦ Cryptographic Hash Functions.
- ♦ Digital Signature & Certificate Applications.
- ♦ Steganography.
- ♦ Biometric Authentication.
- ♦ Network-Based Attacks.
- ♦ DNS And Email Security.
- ♦ Packet Sniffing Using Wireshark & Burpsuite.
- ♦ Password Attack Using Burp Suite.
- ♦ Social Engineering Attacks And Denial Of Service Attacks.
- ♦ Elements Of Hardware Security: Side-Channel Attacks, Physical .
- ♦ Inclinal Functions, Hardware Trojans.
- ♦ Different Types Of Attacks Using Metasploit Framework: Password Cracking, Privilege Escalation, Remote Code Execution, Etc.
- ♦ Attack On Web Servers: Password Attack, SQL Injection, Cross Site Scripting.
- ♦ Case Studies: Various Attacks Scenarios And Their Remedies.

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