

Cyber Security Course Syllabus (6 Months)

Course Duration: 6 Months

Class Schedule: 3 Days/Week, 2 Hours/Class (144 Hours)

Month 1: Cyber Security Fundamentals, Networking, Windows/Linux, OSI, TCP/IP, IP, DNS, Ports, VirtualBox, Kali Linux.

Month 2: Linux, Permissions, OSINT, Vulnerability Assessment, Cryptography, Nmap, Wireshark.

Month 3: Ethical Hacking, Web Security, SQL Injection, XSS, CSRF, Burp Suite, DVWA, SQLMap.

Month 4: Firewalls, IDS/IPS, VPN, Wireless Security, Malware, Email Security, Backup, Packet Analysis.

Month 5: Digital Forensics, Incident Response, Cloud Security, IAM, MFA, Risk Assessment, Autopsy.

Month 6: Penetration Testing, SIEM, SOC, Cyber Laws, Resume, Interview Prep, Final Project.

Tools: Kali Linux, VirtualBox, Nmap, Wireshark, Burp Suite, SQLMap, Metasploit, OWASP Juice Shop, DVWA, Autopsy, Nessus.