Cyber Security Courses

'Cyber Security - Ethical Hacking for Beginners'
Course Outline

Class No	Modules Details	Duration
	Module 01: Introduction to Ethical Hacking	
01	➢ Overview of ethical hacking concepts ➢ Importance of security in today's digital world ➢ The role of ethical hackers in protecting organizations	2 Hours
	Module 02: Operating System (Linux, Kali Linux, VirtualBox)	
02	➢ Basics of Linux operating system ➢ Introduction to Kali Linux (a Linux distribution for penetration testing) ➢ Setting up VirtualBox for running virtual environments	2 Hours
	Module 03: Scanning Networks	
03	➢ Essential Linux commands ➢ Navigating the file system, managing files and directories ➢ Basic networking commands	2 hours

	Module 04: Kali Linux Advanced Commands	
04	➤ More complex Linux commands ➤ Scripting and automation ➤ Command chaining, pipes, and redirection	**2 Hours**
	Module 05: NMAP	
05	➤ Network mapping with NMAP ➤ Scanning and identifying open ports ➤ Understanding services and systems in a network	**2 Hours**
	Module 06: WireShark	
06	➤ Network traffic capture and analysis with WireShark ➤ Understanding packets and protocols ➤ Analyzing network vulnerabilities	**2 Hours**
	Module 07: Password Cracking with "John the Ripper"	
07	➤ Introduction to password cracking techniques ➤ Using John the Ripper to crack password hashes	**2 Hours**
	Module 08: HashCat	
08	➤ Introduction to HashCat for password recovery ➤ GPU-accelerated password cracking ➤ Understanding different hash types	**2 Hours**

	Module 09: Hydra	
09	➢ Password cracking using Hydra ➢ Automating login attacks for password guessing	**2 Hours**
	Module 10: Netcat	
10	➢ Basics of Netcat (the Swiss Army knife for networking) ➢ Using Netcat for port scanning, file transfers, and as a backdoor	**2 Hours**
	✓ **Total Course Length**	**20 Hours**