

## CYBERSECURITY COURSE SYLLABUS (80 % practical sessions)

Course Duration : 60 days				DAYS
1	Introduction to cyber security			1
2	Networking fundamentals			4 days
		Network communications - Types of Networks and Network devices	Ip Address - Public and private ips Switch, subnet, router, firewall, VPN.	
		Layer concepts: OSI Model and TCP/IP model		
3	Active Directory			7 days
		A.D setup		
		Client server, member sever		
		DNS,DHCP, IIS.		
4	Linux			4 days
		Linux commands		
		Linux file permissions		
5	Cybersecurity domain knowledge			12 days
		Dos and DDOS		
		Phishing attack		
		Social Engineering		
		Threat, vulnerability and risk		
		Spoofing,Hijacking, 0-day attack		
		MITM		
		SQL injection attack		
		Cross-site scripting (XSS) attack.		
		Malware attack		
		3 - way handshakes		
		Brute-Force Attacks		
		Encryption and types		
6	Vulnerability Management			5 days
		Fundamentals of Vulnerability Assessment and Management		
		Scanning Methodologies		
		Authenticated vs Non-Authenticated Scanning		
		Planning and Performing Infrastructure Security Assessment		
		Interpreting and Calculating CVSS Score		
		Risk Identification and Categorization		
		Reporting Patches and Updates		

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