CODING PRO ACADEMY

CYBER SECURITY

Learn • Create • Explore • Grow

Learn to protect systems, networks and web applications, from networking and Linux basics to ethical hacking, cryptography and security operations.



DURATION **2 MONTHS**

COURSE CURRICULUM

TOPICS	SUB TOPICS	
Cyber Security Fundamentals	Introduction to Cyber Security Cyber Security Terminology Cyber Security Career Paths	Types of Cyber Threats & Attacks CIA Triad
Networking Fundamentals	Introduction to Computer Networks IP Addressing & Subnetting Basics Common Network Ports	OSI & TCP/IP Models DNS, DHCP, HTTP & HTTPS Firewalls & Network Security
Linux & Security Essentials	Introduction to Linux Basic Linux Commands Bash Scripting Basics	Linux File System Users & File Permissions Virtual Machines & Kali Linux
Ethical Hacking Fundamentals	Ethical Hacking Methodology Nmap Network Scanning Vulnerability Scanning Basics	Information Gathering & Reconnaissance Wireshark Network Analysis
Web Application Security	Introduction to Web Security SQL Injection Burp Suite Basics	OWASP Top 10 Cross-Site Scripting (XSS) Secure Web Practices
Cryptography & Security Concepts	Authentication & Authorization Hashing Algorithms Password Security Best Practices	Symmetric & Asymmetric Encryption Digital Signatures & SSL/TLS
Security Operations & Malware	Types of Malware Log Monitoring & Analysis SIEM Fundamentals	VirusTotal & Malware Analysis Basics Incident Response Process
Projects	Wireshark Traffic Analysis Web Security Assessment	Nmap Network Scanning Home Cyber Security Lab
Quiz & Assessment	Level 1 Quiz Final Assessment	Level 2 Quiz

ONLINE & OFFLINE LEARNING | **CERTIFICATE AVAILABLE** | **LED BY IIT / IIM ALUMNI** | **AI INTERVIEW & RESUME BUILDER**

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