

CYBER FORENSICS

ANALYSIS PROGRAM

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Networking Essentials

- Introduction to Computer Network
- Network Topologies and Type
- IP Addressing
- Subnet Mask, Subnetting and CIDR
- VLSM, Wild Card, Summarization
- Networking Models
- OSI Model
- Networking Device, Cabling, Network Simulator Tools
- ARP and ICMP
- Packet Flow
- Routing - Static and Dynamic
- Static Routing - Next HOP IP & Exit Interface
- Dynamic Routing - RIP, EIGRP, & OSPF
- Remote Service Configuration
- DHCP Configuration
- ACLs
- Switching
- L2 Protocols - CDP, VLAN, STP, DTP, VTP
- Ether Channel
- Port Security

Kali Linux

- Introduction to Linux
- Setting up Lab
- Exploring Kali
- Sudo Overview
- Navigating the File System
- Basic Commands
- Creating, Viewing and Editing Text Files
- Managing Users and Group
- File Privileges / Permissions
- Linux Networking
- Process Management
- Services and Demons
- Log Analysis
- Archiving Files
- Debain Package Management
- Road Ahead - Towards Penetration Testing

Python Programming

- Introduction
- Set up
- Variables and Data Types
- Numbers
- String Formatting
- Booleans and Operators
- Tuples
- Lists
- Dictionaries
- Sets
- Conditionals
- Loops
- Reading and Writing Files
- User Input
- Exception and Error Handling
- Comprehensions
- Function and Code Reuse
- Lambdas
- The Python Package Manner
- Python Virtual Environment
- Introduction to Sys
- Introduction to Requests
- Introduction to Pwntools
- Projects

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Ethical Hacking

- Networking Refresher
- Linux Refresher
- Introduction to Information Security
- Introduction to Ethical Hacking
- Foot printing / Information Gathering
- Scanning
- Enumeration
- Vulnerability Analysis
- System Hacking
- Malware and Threats
- Sniffing
- Social Engineering
- Denial of Service
- Session Hijacking
- IDS, IPS, and Firewalls
- Hacking Web Servers
- Hacking Web Applications
- SQL Injection
- Hacking Wireless Network
- Hacking Mobile Platforms
- Introduction to IOT
- Introduction to Cloud Computing
- Cryptography and Steganography

Digital Forensics

- Introduction to computer Forensics
- Digital Investigation and analysis
- Concepts of Hard disk and File System
- Evidence Duplication and Extraction
- Counter Anti forensics Strategies
- Windows forensics Analysis
- Linux Forensics Analysis
- Mac Forensics Analysis
- Network Forensics Analysis
- Web Breach Forensics
- Dark Web forensics Analysis
- Data repository forensics
- Cloud Forensics and Analysis
- Email forensics and Investigation
- Malware Analysis
- Mobile Forensics and Analysis
- IOT Forensics and Analysis

Threat Hunting

- Introduction to Threat Hunting
- Introduction to Malware
- Mitre
- Cyber Threats
- Cyber Kill Chain Methodology
- Event IDS, Logging and Siem
- Requirements, Planning, direction and review
- Data Collection and Processing
- Data Analysis
- Intelligence Reporting

Incident Handler & Reporting

- Introduction & Process to Incident Handling & Response
- Proactive digital investigation preparedness & First Response
- Cyber Threat Handling and Mitigation
- Network Security Incident Response and Countermeasure
- Email Security Management
- Web App threat Response & Remediation
- Cloud Security Incident Management
- Insider risk management and reponses

CYBERYAAN
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CYTC SECURITY PRIVATE LIMITED

1/4 single storey, 3rd floor
near vishal mega mart, tilak nagar
new delhi, 110018

🌐 www.cyberyaan.in ✉ training@cyberyaan.in

☎ +91 9560663331 | 7428748576 | 7428748577

