

CYBER SECURITY COURSE

In today's digital age, Cyber Security is not just a skill — it's a necessity. Every organization needs professionals who can protect them from cyber threats, hacking attempts, and data breaches.



Information Security
Concepts



Networking
Concepts
Overview



Security
Threats and
Vulnerabilities



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Unit: 1 : Networking Concepts Overview

- Basics of Communication Systems
- Transmission Media
- ISO/OSI and TCP/IP Protocol Stacks
- Local Area Networks
- Wide Area Networks
- Internetworking
- Packet Formats
- Wireless Networks
- The Internet

Unit: 2: Information Security Concepts

- Information Security Overview
- Information Security Services
- Types of Attacks
- Goals for Security
- E-commerce Security
- Computer Forensics
- Steganography
- Security Engineering

Unit: 3: Security Threats and Vulnerabilities

- Overview of Security threats
- Hacking Techniques
- Password Cracking
- Insecure Network connections
- Malicious Code
- Programming Bugs
- Cybercrime and Cyber terrorism
- Information Warfare and Surveillance

Unit: 4 : Cryptography

- Introduction to Cryptography
- Symmetric key Cryptography
- Asymmetric key Cryptography
- Message Authentication and Hash functions
- Digital Signatures
- Public Key infrastructure
- Diffie-Hellman key exchange protocol
- Applications of Cryptography

Unit: 5 : Security Management Practices

- Overview of Security Management
- Information Classification Process
- Security Policy
- Risk Management
- Security Procedures and Guidelines
- Business Continuity and Disaster Recovery

Unit: 6 : Security Laws and Standards

- Security Assurance
- Security Laws
- International Standards
- Security Audit
- OCTAVE approach
- SSE-CMM

Unit: 7 : Security Laws and Standards

- Overview of Identification and Authorization
- I & A Techniques
- Overview of IDS
- Intrusion Detection Systems and Intrusion Prevention Systems

Unit: 8 : Server Management and Firewalls

- User Management
- DNS Routing and Load Balancing
- Overview of Firewalls
- Types of Firewalls
- DMZ and firewall features

Unit: 9 : Security for VPN and Next Generation Networks

- VPN Security
- Security in Multimedia Networks
- Fax Security
- Link Encryption Devices

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Unit: 11: Security Architectures and Models

- Designing Secure Operating Systems
- Controls to enforce security services
- Information flow model and Biba model

Unit: 12: System Security

- Desktop Security
- email security: PGP and SMIME
- Web Security: web authentication, SSL and SET

Unit: 13: OS Security

- OS Security Vulnerabilities, updates and patches
- OS integrity checks
- Anti-virus software
- Design of secure OS and OS hardening
- Configuring the OS for security
- Trusted OS
- Software - IDE's :Android Studio / JDK/Kotlin-Android

PC TRAINING INSTITUTE LIMITED

For More Information



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