AGILE IT TECH

MASTERING CYBER SECURITY

COMPLETE CYBER SECURITY COURSE

CALL US TODAY
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INTRODUCTION TO CYBERSECURITY

1. Importance of Cybersecurity:

- Data Protection
- Preventing Cyberattacks
- National Security

2. Types of Cybersecurity Threats:

- Malware
- Phishing
- Ransomware

3. Cybersecurity Measures and Best Practices

- Firewalls andAntivirusSoftware
- Encryption
- Regular Software Updates

4. Career Opportunities in Cybersecurity

- Cybersecurity Analysts
- Ethical Hackers
- Security Consultants

5. Legal and Ethical Aspects

- Data Protection Laws
- Ethical Hacking

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NETWORK AND SYSTEM SECURITY

1. Network Security Overview

2. Types of Network Security Measures

- Firewalls
- Intrusion Detection and Prevention Systems (IDPS)

3. Types of System Security Measures

- Operating System Security
- Anti-malware Software
- Backup and Recovery

4. Network and System Security Best Practices

- Defense in Depth: Regular
- Security Audits: Incident
- Response Plan: Role-Based
- Access Control:

5. Emerging Technologies in Network and System Security

- Blockchain
- Machine Learning and AI

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DATA PROTECTION AND CRYPTOGRAPHY - DATA PROTECTION

1. ImportanceofDataProtection

- Privacy Compliance
- Customer Trust
- Preventing DataBreaches

2. Data Protection Measures

- Encryption
- Access Controls
- Regular AuditsandMonitoring

CRYPTOGRAPHY

1. Types of Cryptography

- Symmetric Encryption
- Asymmetric Encryption (Public-Key Cryptography)
- Hash Functions

2. Uses of Cryptography

- Secure Communication:
- Digital Signatures:
- Authentication:
- Key Exchange

3. Challenges in Cryptography

- Quantum Computing
- Key Management

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4. Future Trends in Cryptography

- Post-Quantum Cryptography
- Homomorphic Encryption

WEB SECURITY AND ETHICAL HACKING - WEB SECURITY

1. Secure Web Protocols

- HTTPS
- SSL/TLS

2. Common Web Vulnerabilities

- Cross-Site Scripting (XSS)
- Cross-Site Request Forgery (CSRF)
- SQL Injection

3. Security Best Practices

- Input Validation
- Session Management
- Content Security Policy (CSP)

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ETHICAL HACKING

1. DefinitionofEthicalHacking

2. Responsibilities of Ethical Hackers

- Authorized Access
- Identifying Vulnerabilities
- Reporting

3. Common Ethical Hacking Techniques

- Scanning and Enumeration
- Vulnerability Assessment
- Social Engineering

4. Certifications in Ethical Hacking

- Certified EthicalHacker(CEH)
- Offensive SecurityCertified Professional (OSCP)

5. Ethical Hacking Tools

- Nmap
- Metasploit
- Burp Suite

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CYBERSECURITY BEST PRACTICES AND FUTURE TRENDS

1. Strong Authentication
2. Regular Software Updates and Patch Management
3. Data Encryption
4. Network Security
5. Incident Response Plan
6. Regular Security Audits and Penetration Testing

FUTURE TRENDS IN CYBERSECURITY

1. Zero TrustSecurityModel
2. Artificial Intelligence (AI) and Machine Learning (ML) in Cybersecurity
3. Cloud Security Posture Management (CSPM)
4. IoT Security
5. Ransomware Mitigation
6. Cybersecurity Regulations and Compliance

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ASSESSMENT AND ACTIVITIES

- Certified Ethical Hacker (CEH) Offensive Security Certified Professional (OSCP)

Thank You

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