About **Program**

Cyber Security:

A cybersecurity course is designed to provide students with knowledge and skills in protecting computer systems, networks, and sensitive information from cyber attacks. The course typically covers various aspects of cybersecurity, such as cryptography, network security, cyber laws and regulations, ethical hacking, and risk management. Here is a general overview of a cybersecurity course.

Introduction to Cyber Security

- What is cyber security?
- Why is it important?
- Types of cyber threats
- Cyber security frameworks and standards

Network Security

- Network topologies and protocols
- Network security devices and technologies (e.g. firewalls, IDS/IPS, VPNs)
- Network security architecture and design

Application Security

- Web application vulnerabilities
- Mobile application security

Cryptography and Data Protection

- Encryption and decryption techniques
- Symmetric and asymmetric encryptio
- Digital signatures
- Public Key Infrastructure (PKI)
- Data protection laws and regulations

Identity and Access Management

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    Authentication and authorization
- Identity management
- Access control models
- Single sign-on (SSO) and multi-factor authentication (MFA)

Incident Response and Disaster Recovery

- Incident response planning and management

- Disaster recovery planning and management
- Business continuity planning

Security Operations and Monitoring

- Security information and event management (SIEM)
- Security operations center (SOC)
- Threat intelligence and hunting
- Security metrics and reporting

Ethical Hacking and Penetration Testing

- Penetration testing methodologies
- Vulnerability scanning and assessment

Internet of Things (IoT) Security

- IoT architecture and device
- IoT security risks and challenges
- IoT security frameworks and standards

Cyber Security Governance and Compliance

- Cybersecurity governance frameworks (e.g. NIST, ISO)
- Risk management and assessment

- Compliance with data protection regulations (e.g. GDPR, CCPA)

Emerging Cyber Security Trends and Technologies

- Artificial intelligence and machine learning in cybersecurity
- Quantum computing and cryptography

About Techehost

Techehost is designed to provide high-quality, flexible and accessible learning opportunities to help you develop the skills you need to advance your career or pursue your personal interests. We offer a range of courses, taught by industry experts, that cover a wide variety of topics and are designed to fit your schedule and learning style. Our online learning environment is user-friendly and allows you to interact with instructors and other learners in real-time, enabling you to get the support you need to succeed. Whether you're looking to learn a new skill, enhance your knowledge or take your career to the next level, our online training website is the perfect place to start.