



CYBER SECURITY

INTRODUCTION

The technique of protecting internet-connected systems such as computers, servers, mobile devices, electronic systems, networks, and data from malicious attacks is known as cybersecurity. We can divide cybersecurity into two parts one is cyber, and the other is security. Cyber refers to the technology that includes systems, networks, programs, and data. And security is concerned with the protection of systems, networks, applications, and information. In some cases, it is also called **electronic information security** or **information technology security**.



SYLLABUS

Cyber Security Course Syllabus (3 Month)

- ❖ Introduction to Cyber Security
- ❖ Network Security Fundamentals
- ❖ Cryptography Basics
- ❖ Web Application Security
- ❖ Ethical Hacking Fundamentals
- ❖ Incident Response and Handling
- ❖ Wireless Network Security
- ❖ Cloud Security
- ❖ Mobile Security
- ❖ Industrial Control Systems (ICS) Security
- ❖ Network Defense and Monitoring
- ❖ Cybersecurity Governance and Compliance

SYLLABUS

Cyber Security Course Syllabus (6 Month)

- ❖ Introduction to Cyber Security
- ❖ Advanced Cyber Security Concepts
- ❖ Advanced Cyber Security Practices
- ❖ Advanced Topics in Cyber Security
- ❖ Specialized Areas in Cyber Security
- ❖ Practical Applications and Project Work

SYLLABUS

Cyber Security Course Syllabus (1Year)

Months 1-3: Introduction to Cyber Security

Months 4-6: Advanced Cyber Security Concepts

Months 7-9: CEH (Certified Ethical Hacker) and CPT (Certified Penetration Tester)

Months 10-12: Personality Development, Resume Building, and Mock Interviews

Note: The core cyber security topics are covered in the first nine months, followed by three months dedicated to CEH and CPT certifications, Personality Development, Resume Building, and Mock Interviews. Adjustments can be made based on the learning pace and the specific interests of the students. Additional time for hands-on exercises, labs, and practical assignments is highly recommended to reinforce the concepts learned throughout the course.

JOB OPPORTUNITIES

- Network Security Engineer
- Cyber Security Analyst
- Security Architect
- Cyber Security Manager
- Cybersecurity Engineer
- Application Security

Engineer



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