



Course Syllabus: Introduction to Cybersecurity Basics

Course Overview:

This 4-week course provides foundational knowledge of cybersecurity, covering key concepts such as cyber threats, vulnerabilities, risk management, and security best practices. Participants will gain a basic understanding of how to protect personal and organizational data against cyber threats.

Course Details:

- **Duration:** 4 Weeks
 - **Fee:** ₹5,000
 - **Mode:** Online/Offline (as applicable)
 - **Prerequisites:** No prior cybersecurity knowledge required; basic computer literacy recommended
 - **Certification:** Upon successful completion, participants will receive a certification from Mersenne Cybercounsellors LLP
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Week 1: Introduction to Cybersecurity

- Understanding Cybersecurity and Its Importance
- Overview of Cyber Threats (Malware, Phishing, Ransomware)
- Cybersecurity Principles: Confidentiality, Integrity, and Availability (CIA)
- **Hands-on Activity:** Identifying Common Cyber Threats

Week 2: Cyber Threats and Vulnerabilities

- Common Attack Vectors (Social Engineering, Insider Threats, DDoS)
- Security Vulnerabilities in Systems and Applications
- Introduction to Risk Management and Threat Mitigation
- **Hands-on Activity:** Simulating a Phishing Attack and Analyzing its Impact

Week 3: Security Best Practices and Defense Mechanisms

- Basics of Authentication and Access Control (Passwords, MFA)
- Secure Browsing, Email Security, and Safe Online Practices
- Understanding Firewalls, Antivirus, and Encryption
- **Hands-on Activity:** Configuring Basic Security Settings on a System



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Week 4: Incident Response and Cyber Hygiene

- Introduction to Incident Response and Cybersecurity Frameworks
 - Steps to Take After a Cybersecurity Breach
 - Cyber Hygiene: Safe Computing Practices for Individuals and Organizations
 - **Final Project:** Analyzing and Preventing a Cybersecurity Breach Scenario
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Assessment & Certification:

- Weekly quizzes and practical exercises
- Final assessment and security awareness project
- Certification of Completion from Mersenne Cybercounsellors LLP

Target Audience:

- Beginners interested in cybersecurity
- IT professionals looking to enhance security awareness
- Students and individuals concerned about online security

Learning Outcomes:

- Understand basic cybersecurity concepts and threats
- Identify common vulnerabilities and attack vectors
- Implement security best practices in personal and professional settings
- Develop awareness of incident response and cyber hygiene measures

For inquiries and enrollment,

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