

Information Security and Cyber Law

Upon successful completion of this course, the students will be able to:

1. Recognize the importance of Information Security and Cyber Law in today's digital world.
(Knowledge: Understanding the significance of Information Security and Cyber Law)
2. Analyze the need for Information Security and identify the attributes of Information Security such as Authentication, Confidentiality, Integrity, Availability, and Non-repudiation.
(Comprehension: Understanding the fundamental concepts and attributes of Information Security)
3. Evaluate different security services, mechanisms, and attacks to safeguard information systems, including Access Control, Threats, and Vulnerabilities.
(Analysis: Ability to dissect and analyze various security services and threats)
4. Identify and differentiate various security attacks like Unauthorized Access, Impersonation, Denial of Service, and Malicious Software.
(Analysis: Recognition and classification of different types of security attacks)
5. Explain the types of authentication methods, Password Authentication, and Password Vulnerabilities & Attacks like Brute Force & Dictionary Attacks.
(Application: Applying knowledge of authentication methods and vulnerabilities in real-world scenarios)
6. Formulate a Password Policy and practice discipline to enhance security, and understand Single Sign-on using Kerberos and alternate approaches.
(Synthesis: Constructing a secure password policy and exploring various authentication methods)
7. Define Intellectual Property Rights, including the types and advantages of Intellectual Property Rights, with a specific focus on Intellectual Property Rights in Cyber Space.
(Knowledge: Understanding the concepts and significance of Intellectual Property Rights)
8. Develop strategies for Cyber Security, including creating a secure cyber ecosystem, an assurance framework, and mechanisms for IT security to protect critical information infrastructure.
(Evaluation: Assessing and developing strategies to enhance cybersecurity)
9. Explain the various aspects of Cyber Law, including Cyberspace, Cyber Crime, Offences & Penalties, and the Information Technology Act.
(Comprehension: Understanding the legal aspects and implications of Cyber Law)
10. Interpret the salient features and amendments brought in the Information Technology Act, along with its impact on related Acts.
(Analysis: Evaluating the amendments and their implications on the legal framework)

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