

**SES's L.S. RAHEJA COLLEGE OF ARTS AND COMMERCE
(AUTONOMOUS)**



BOARD OF STUDIES: Information Technology and Data Science

Programme: B.Sc. (Cyber Security & Digital Forensics)

Semester: II

Nomenclature of the Course: Introduction to Cyber Security Lab

NEP Vertical: Major

Credit: 01

Total Marks: 25

Academic Year: 2026–27

(As per Choice Based Credit System under NEP 2020)



Practical Component

List of Practicals

1. Study of Security Policies
 - Draft a basic organizational security policy
2. Risk Assessment Exercise
 - Identify assets, threats, and vulnerabilities in a case scenario
3. Access Control Configuration (Conceptual Simulation)
 - Create user roles and permissions (Windows/Linux demo)
4. Password Hashing Demonstration
 - Understand hashing using online tools or simple scripts
5. Basic Encryption Demonstration
 - Encrypt and decrypt a message using simple tool/script
6. Incident Response Simulation
 - Prepare steps for handling a simulated cyber incident
7. Log Analysis (Basic)
 - Analyze simple system or network log file
8. Business Continuity Planning Exercise
 - Prepare disaster recovery checklist
9. Security Awareness Case Study Analysis
 - Analyze real cyber incident and report findings
10. Mini Security Assessment Report
 - Prepare a short report based on a given scenario

Learning Objectives

1. To apply basic security governance concepts.
2. To perform structured risk assessment.
3. To understand practical aspects of encryption and hashing.
4. To simulate incident response procedures.

Course Outcomes (CO)

CO No.	Course Outcome	Bloom's Level
CO1	Prepare basic security policies	Apply (L3)
CO2	Conduct simple risk assessment analysis	Analyze (L4)
CO3	Demonstrate encryption and hashing concepts	Apply (L3)
CO4	Simulate incident response procedures	Apply (L3), Analyze (L4)

Evaluation Scheme

Component	Marks
Journal	5
Viva Voce	5
Practical Examination	15
Total	25