

**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: I

Nomenclature of the Course: Cyber Hygiene & Safe Computing Practices

NEP Vertical: VSC

Credit: 02

Total Marks: 50

Academic Year: 2026–27

(As per Choice Based Credit System under NEP 2020)



Unit-wise Detailed Syllabus

Unit	Detailed Contents	Andragogy	Hours
Unit I: Fundamentals of Cyber Hygiene	1. Introduction to Cyber Hygiene and Safe Computing 2. Common Cyber Threats – Malware, Phishing, Ransomware 3. Password Security & Multi-Factor Authentication 4. Social Engineering Attacks 5. Safe Browsing Practices & HTTPS 6. Email Security Awareness 7. Digital Footprint & Online Privacy	Concept explanation with real case examples. Hands-on Activities: • Create strong passwords & test strength • Identify phishing email samples • Check website certificate details • Configure browser security settings	15
Unit II: Safe Configuration & Risk Mitigation Practices	1. Secure Device Configuration Basics 2. Antivirus & Firewall Concepts 3. Data Backup and Recovery Practices 4. Safe Use of Public Wi-Fi 5. Privacy Settings in Social Media 6. Recognizing Fake Websites & URLs 7. Introduction to Cyber Ethics 8. Basic Awareness of IT Act (Overview)	Demonstration-based learning. Hands-on Activities: • Enable firewall & antivirus settings • Configure privacy settings • Perform local/cloud backup • Analyze suspicious URLs • Prepare cyber awareness checklist	15

Learning Objectives

1. To understand principles of cyber hygiene.
2. To identify and prevent common cyber threats.
3. To configure basic security settings on devices.
4. To practice safe digital behavior.
5. To develop awareness of legal and ethical aspects.

Course Outcomes (CO)

CO No.	Course Outcome	Bloom's Level
CO1	Explain cyber hygiene principles and threats	Understand (L2)
CO2	Identify phishing and social engineering attacks	Analyze (L4)
CO3	Apply safe browsing and password practices	Apply (L3)
CO4	Configure basic device security settings	Apply (L3)
CO5	Demonstrate awareness of cyber ethics and laws	Understand (L2), Analyze (L4)

Suggested Readings

Sr. No.	Title	Author / Source
1	Cybersecurity Essentials	Charles J. Brooks
2	The Art of Invisibility	Kevin Mitnick
3	Cyber Safety Handbook	CERT-In Guidelines
4	IT Act 2000 (India) – Overview	Government of India

QUESTION PAPER PATTERN

A) Continuous Evaluation – 20 Marks

Particulars	Marks
Class Test	10
Activity Journal	10
Total	20

(B) Semester End Examination – 30 Marks

Duration: 1 Hour

Duration: 1 Hour		
Question No.	Description	Total Marks
Q1	Attempt Unit I	
	A – Remembering	15
	B – Analysing	
	C – Applying	
OR		
	P – Remembering	15
	Q – Analysing	
	R – Applying	
Q2	Attempt Unit II	
	A – Remembering	15
	B – Analysing	
	C – Applying	
OR		
	P – Remembering	15
	Q – Analysing	
	R – Applying	