



GUJARAT UNIVERSITY

BCA V SYLLABUS

COURSE TITLE		
SEC301 Information Security		
COURSE CODE	SEC-301	
COURSE CREDIT	3	
Session Per Week	3	
Total Teaching Hours	40 HOURS	
AIM		
This course familiarizes the students with the security issues and technologies involved in modern information systems, including computer systems and networks. Students will gain an understanding of the various ways in which information systems can be attacked and trade-offs in protecting networks..		
LEARNING OUTCOMES		
The student would be able		
• To identify the information assets. • To identify threats to information assets. • To define an information security strategy and architecture. • To plan for and respond to intruders in an information system.		
DETAIL SYLLABUS		
UNIT	TOPIC / SUB TOPIC	TEACHING HOURS
1	Introduction ,Principles of Success, Law and Ethics	10
	❖ Information Security	2
	➤ Introduction	
	➤ Opportunities	
	➤ Contextualizing Information Security	
	❖ Information Security Principles of Success	3
	❖ The Information Security Common Body of Knowledge	2
	❖ Law, Investigations and Ethics	3
	➤ Introduction	
	➤ Types of Computer Crime	
	➤ How Cyber Criminals Commit Crimes	
	➤ The Computer and the Law	
	➤ Intellectual Property Law	
	➤ Privacy and the Law	

	➤ Intrusion Detection Systems ➤ VPNs ❖ Application Development Security ➤ Introduction ➤ The Practice of Software Engineering ➤ SDLC 4 hrs ➤ Distributed Systems ➤ Malware ➤ Antivirus Software ➤ Improving Security Across the SDLC	6
o Textbook		
Information Security Principles and Practices (First Edition 2008) Publisher: Pearson By Mark Merkow and Jim Breithaupt		
REFERENCE BOOKS:		
1. Information Security Theory and Practice Publisher: PHI By Dhiren R. Patel 2. Computer Security Fundamentals Publisher: Pearson By Chuck Eastiom		