



C-DAC & Gujarat Technological University
M.E. Computer Engineering
(IT Systems and Network Security)
Gandhinagar

Semester: II

Subject Name: Information System & Network Security

Subject Code: 2725103

Course Content:

Basics of Information System, The changing nature of Information System, Threats of Information System, Threats and attacks, Classification of Threats and attacks, Protecting Information System Security, Security in Wireless Computing, Credit Card frauds in mobile and wireless Computing, Security Policies and Measures in Mobile Computing, Information Security Management, Security Policy, Standards, Responsibility for Information Security Management, Information Security Processes and Best practices, E-Commerce Security, Building Blocks of Information Security, Basic principal of Information Systems Security, Information Security risk analysis, Term and Definitions for Risk Analysis of Information Security, Risk Management and Risk Analysis, Data Privacy Fundamentals, Attacks - Services – Mechanisms- Model of Network security.-OSI architecture.

Text Book:

1. Information Security: Principles and Practices, Mark Merkow, James, Breithaupt Pearson
2. Fundamentals of Network Security, Eric Maiwald, TMH

Reference Books:

1. Network Security Essentials by Stallings, Stallings William
2. Network Security: The Complete Reference