

ELECTIVE COURSE II C (EC) - CYBER SECURITY

UNIT I

Overview – Symmetric Ciphers : Classical Encryption Techniques

UNIT II

Symmetric Ciphers : Block ciphers and the Data Encryption Standards Public-key Encryption and Hash Functions: Public-Key Cryptography and RSA

UNIT III

Network Security Practices : Authentication applications – Electronic Mail Security

UNIT IV

Network Security Practices : IP Security – Web Security

UNIT V

System Security : Intruders – Malicious Software – Firewalls

Text Book:

1. William Stallings, "Cryptography and Network Security – Principles and Practices", Prentice-Hall, Third edition, 2003

References:

1. Johannes A. Buchanan , "Introduction to cryptography", Springer-Verlag.
2. Atul kahate , "Cryptography and Network Security", TMH