Subject Code: RQG531

PAPER XXXI - CYBER SECURITY

UNIT I:

Overview - Symmetric Ciphers : Classical Encryption Techniques

UNIT II:

Symmetric Ciphers: Block ciphers and the Data Encryption Standards Publickey 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