CCIX - INFORMATION SYSTEM SECURITY

UNIT-I

Introduction-attacks, services & mechanisms – security attacks- security services

Conventional encryption & message confidentiality- conventional encryption principles- conventional encryption algorithms- cipher bock modes of operation- location of encryption devices- key distribution

UNIT-II

Public key cryptography & message authentication- approaches to message authentication secure hash functions – public key cryptography principles & algorithms – digital signature – key management – kerberous

UNIT-III

Ip security – ip security overview & architecture – authentication header – encapsulating security pay load combining security associations – key management

UNIT-IV

Web security –web security requirements –secure sockets layer & transport layer security – secure electronics transaction

UNIT-V

Intruders & viruses – intruders – viruses & related threads Firewalls- firewall design principles –trusted systems

TEXT BOOK:

Stallings W, NETWORK SECURITY ESSENTIALS, pearson education asia, 2002.