

## BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
<b>IT-406</b>	<b>Network Security</b>	<b>3</b>	<b>VIII</b>
Year	Discipline		
<b>4</b>	<b>Information Technology</b>		

### Objectives:

Overview of the Network, Security threats and security mechanisms, Intro to cryptography, Classical symmetric encryption techniques, Block ciphers, DES and Triple DES, Overview of recent encryption algorithms, Application of symmetric encryption, Confidentiality, Finding prime factors (number theory), Public key (asymmetric) cryptography, RSA, Key Distribution and Management, Message authentication, hash functions, Digital signatures and authentication protocols, Kerberos, Electronic mail security, IP Security, Web security, SSL, TLS, Intrusion detection, Malicious software, Viruses and worms, Firewalls

### Prerequisites

### Recommended Books:

- Network security and cryptography , Prentice Hall, William Stallings , 2003
- Networks perimeter security by Cliff Rigs
- Network Security by Eric Maiwald
- Biometrics for network security by Paul Reid, 2004
- Computer security basics by rick lehtinen, D. Russell, 2006