

**MAJOR BASED ELECTIVE-II -COMPUTER NETWORKS**

**Unit 1:**

Introduction: uses of computer networks - network hardware - network software - reference models - example networks - network standardization

**Unit II**

The physical layer: guided transmission media - wireless transmission - communication satellites - the public switched telephone network

**Unit III**

The data link layer: data link layer design issues - error detection and correction - elementary data link protocols - sliding window protocols

**Unit IV**

The network layer: network layer design issues - routing algorithms - congestion control algorithms- quality of service – internetworking

**Unit V**

The transport layer: the transport service - elements of transport protocols - a simple transport protocol the application layer: dns--domain name system - electronic mail - the world wide web

**Text Book:**

Computer Network , Fourth edition, Andrew S. Tanenbaum, Prentice Hall, 2006.