CORE COURSE –XVI - 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.