

SARDAR PATEL UNIVERSITY
Programme: BBA (Information Technology Management)
Semester-IV
Syllabus with effect from: November/December-2012

Paper Code: UM04CBB106	Total Credit:3
Title of Paper: Computer Networks	

Unit	Description in detail	Weighting (%)
I	Basics of Networking Introduction of networking (Definition), Advantages and Disadvantages of networking, LAN, MAN, WAN, LAN Components, OSI model	25%
II	Networking Media and Devices Types of transmission media (Introduction & Definition), Guided Media (Twisted pair cables, Coaxial Cables, Optical fibers), Unguided Media (RF (Definition & diagram of Radio Communication Band only), Terrestrial Microwave), Connecting Devices (NIC, Hubs, Switches, Bridges, Router)	25 %
III	Transmission Technology Digital and Analog Transmission, Transmission mode(Half Duplex and Full Duplex Transmission), Serial Transmission, Parallel Transmission, Synchronous & Asynchronous Transmission, Transmission Impairment (Attenuation, distortion, Noise)	25 %
IV	Topology and Protocols LAN Topologies (Bus, Star, Ring, Tree, Mesh, Intersecting Rings), Protocols (Definition), Need of Protocols, Protocols (CSMA/CD, CSMA/CA) TCP&IP Header	25 %

Basic Text & Reference Books

- Data Communications and Networking 2nd Edition: B. A. Forouzan, TMH
- Computer Networks: Andrew S Tannenbaum 3rd Edition, Pearson-Prentice Hall
- Local Area Networks: B. A. Forouzan, TMH

