SARDAR PATEL UNIVERSITY
Programme & Subject: BBA (Information Technology Management)
(3 Years)
Semester: II
Syllabus with effect from: December - 2015

Paper Code: UM02EBBI06	Total Credit: 3
Title Of Paper: Networking Technologies	

Unit	Description in Detail	Weightage (%)
I	**Switching & Multiplexing** Introduction to Networking: Need, Advantages and Disadvantages - Computer Communication and need to transmit data over long distances - Types of Networks and their characteristics - Difference between Multi-user system and LAN - Layered Model for LAN/WAN internetworking	25%
II	**Switching & Multiplexing** Introduction to Switching (Circuit Switching, Packet Switching, Message Switching) - Introduction to Shift Keying (Amplitude Shift keying (ASK), Frequency Shift Keying (FSK), Phase Shift Keying (PSK)) - Frequency Division Multiplexing (FDM) - Time Division Multiplexing (TDM)	25%
III	**Communication Protocols & Ethernet** Protocols - Need of protocols? - Protocol Hierarchy - Asynchronous Transmission - Synchronous Transmission – HDLC - SNMP (Simple Network Management Protocol): SNMP Model, Types of Ethernet (Standard, Fast, Giga Bit), Applications of Ethernet (10 Base 2, 10 Base 5, 10 Bases - T, 10 Bases – F)	25%
IV	**TCP/IP** Overview of TCP/IP – Network Layer(IPv4) – Addressing – Subnetting – Other Protocols in the Network Layer(ARP) – Transport Layer(TCP) – Next Generation: IPV6	25%

Basic Text & Reference Books:-

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