

SARDAR PATEL UNIVERSITY
Programme & Subject: BBA (Information Technology Management)
(3 Years)
Semester: II

Syllabus with effect from: Nov./Dec., - 2019

Paper Code: UM02DBBI56	Total Credits: 3
Title Of Paper: Networking Technologies	

Unit	Description in Detail	Weightage
1	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%
2	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%
3	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%
4	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