SARDAR PATEL UNIVERSITY
Programme & Subject: BBA (Information Technology Management)
(3 Years)
Semester: II
Syllabus with effect from: Nov./Dec., - 2019

Paper Code: UM02DBBI55	Total Credits: 3
Title Of Paper: Computer Networks	

Unit	Description in Detail	Weightage
1	**Basics of Networking** Introduction of networking (Definition) - Advantages and Disadvantages of Networking - LAN, MAN, WAN - LAN Components - OSI model	25%
2	**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%
3	**Topology and Protocols** LAN Topologies (Bus, Star, Ring, Tree, Mesh, Intersecting Rings) - Protocols (Definition), Need of Protocols - Protocols (CSMA/CD, CSMA/CA)	25%
4	**Networking Media and Devices** Types of transmission media - Guided Media - (Twisted pair cables, Coaxial Cables, Optical fibers), Devices - Hubs, Switches, Bridges, Routers, Gateways, Modems	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